PHASE I ENVIRONMENTAL SITE ASSESSMENT

FORMER PUBLIC WORKS PROPERTY
25 NORTH WORTHEN STREET,
WENATCHEE, WASHINGTON

Prepared for

CITY OF WENATCHEE

DEPARTMENT OF PUBLIC WORKS

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Project No. 0380.02.01

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The material and data in this report were prepared under the supervision and direction of the undersigned.

MAUL FOSTER & ALONGI, INC.

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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 12.13.2. 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 all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

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- 1 SITE LOCATION
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ACRONYMS AND ABBREVIATIONS

AAI all appropriate inquiries
AST aboveground storage tank

ASTM American Society for Testing and Materials
B&A Budinger & Associates Geotechnical & Materials

Engineers

CERCLA Comprehensive Environmental Response,

Compensation and Liability Act

Client City of Wenatchee

CSCSL Confirmed and Suspected Contaminated Sites

List

E&E Ecology and Environment, Inc.

Ecology Washington State Department of Ecology EDR Environmental Data Resources, Inc.

ESA environmental site assessment

ICR Ecology Independent Cleanup Report

MFA Maul Foster & Alongi, Inc. MTCA Model Toxics Control Act

NFA No Further Action NPL National Priorities List

PAH polycyclic aromatic hydrocarbon

PCB polychlorinated biphenyl

the Property 25 North Worthen Street, Wenatchee,

Washington

RCRA Resource Conservation and Recovery Act REC recognized environmental condition

SFIM Sanborn Fire Insurance Map SVOC semivolatile organic compound TPH total petroleum hydrocarbons

USEPA U.S. Environmental Protection Agency

UST underground storage tank

VCP Ecology Voluntary Cleanup Program

VOC volatile organic compound

This summary contains the findings and opinions of the environmental site assessment (ESA) and is intended for use with the supporting text, figures, and attachments of the complete report.

At the request of the Mr. Steve King, PE, City of Wenatchee Department of Public Works (City), Maul Foster & Alongi, Inc. (MFA) conducted this Phase I ESA of the site at 25 North Worthen Street, Wenatchee, Washington (the Property).

This Phase I ESA was conducted in accordance with the requirements of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-05). The Phase I ESA also was prepared to support the Bona Fide Prospective Purchaser defense (Comprehensive Environmental Response, Compensation and Liability Act [CERCLA] § 101(4)) and the innocent purchaser defense (CERCLA § 101(35)(A)(i)). This Phase I ESA generally complies with 40 Code of Federal Regulations Part 312, adopted by the U.S. Environmental Protection Agency on November 5, 2005, and effective November 1, 2006. These rules identify the standards and practices for all appropriate inquiries under CERCLA § 101(35)(B). The purpose of the Phase I ESA was to identify, to the extent reasonably feasible, "recognized environmental conditions" (RECs).

RECOGNIZED ENVIRONMENTAL CONDITIONS

The following RECs were identified for the Property:

- Underground Storage Tanks. Three fuel underground storage tanks (USTs) were located at the Property from the 1960s through the 1990s, when the Property was used as a City fueling station. The USTs have been removed and it was reported that petroleum-hydrocarbon-stained soil was encountered during their removal. In 2009, the City excavated around the location of the USTs and found pea gravel and no signs of impacts. A heating oil UST was also located and the property and was decommissioned and removed. Reportedly the soil impacts were removed and further investigation showed no evidence of impacts. However, there are no soil analytical results confirming complete removal, and therefore the soil around the former UST excavations is considered a REC.
- Historical Landfill. A landfill that operated from the 1950s through
 the 1970s is on the eastern portion of the Property and on areas
 extending to the north, west, and south. Interviews and site-related
 documents indicate that there is landfill waste on the Property and
 that soil and/or groundwater are impacted above Ecology cleanup
 levels with the following constituents of concern: metals, including

cadmium, chromium, arsenic, and lead; volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs), including polycyclic aromatic hydrocarbons (PAHs); and total petroleum hydrocarbons (TPH). Soil gas samples from the portions of the Property where the landfill is present show the presence of VOCs and of combustible gases at or above the lower explosive limit. Therefore, the impacts from the landfill to soil, groundwater, soil gas, and the landfill material are RECs.

HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS

No historical RECs where identified in connection with the Property.

DE MINIMIS CONDITIONS

- **Drums.** Four drums were observed on the Property during the site visit and two drums were generated during the site investigation activities. All of the drums were in good condition and no staining was observed in their vicinity.
- **Soil Staining.** Minimal amounts of soil staining composed potentially of petroleum hydrocarbons were noted at the Property during site reconnaissance. The stains were small and confined to the parking lot area.
- Transformers. One pad-mounted transformer is located on the Property. Stickers denoting the quantity of polychlorinated biphenyls (PCBs) were not observed and there was no staining around the transformer.
- Oil/Water Separators. Two oil/water separators are located at the Property, and were presumably used during -equipment cleaning at the Property. A noticeable sheen was present on water located within each access point. Upon development of the Property, these oil/water separators should be properly decommissioned.
- Heavy-Equipment Storage. Through approximately 2006, the Property was used for parking city public works street cleaning trucks, storm sewer vacuum trucks, and lawn mowers. No obvious signs of impacts from these activities were observed on the Property.
- Onsite Contaminant Migration. The property to the south operated by Pybus Steel had four USTs that were decommissioned. There were no decommissioning reports available and no indication that the UST impacted the environment. Due to the proximity of the Pybus property it is possible, but not likely, that impacts from the former USTs could migrate onto the Property.

DATA GAPS

No significant data gaps were identified. However, the following minor data gaps were identified in connection with the Property:

- Aerial photographs showing the Property throughout development at fiveyear intervals were not available for the Property. This data gap is not significant and has no impact on the conclusions and recommendations of this report.
- Former owners or occupants of the Property could not be interviewed, based on the Property's longstanding use by the City of Wenatchee. This data gap is not considered significant, based on the known historical uses of the Property.
- The Environmental Data Resource, Inc. report indicates that the Property is listed on the National Priorities List LIENS. A complete title review indicates that no lien was ever recorded in connection with the Property.

1.1 Purpose

At the request of Mr. Steve King of the City of Wenatchee Department of Public Works, Maul Foster & Alongi, Inc. (MFA) conducted a Phase I environmental site assessment (ESA) of the property located at 25 North Worthen Street, Wenatchee, Washington (the Property) (see Figure 1). The Phase I ESA was conducted in accordance with the requirements of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-05). The Phase I ESA also was prepared to support the Bona Fide Prospective Purchaser defense (Comprehensive Environmental Response, Compensation and Liability Act [CERCLA] § 101(4)) and the innocent purchaser defense (CERCLA § 101(35)(A)(i)). This Phase I ESA generally complies with 40 Code of Federal Regulations Part 312, adopted by the U.S. Environmental Protection Agency (USEPA) on November 5, 2005, and effective November 1, 2006. These rules identify the standards and practices for all appropriate inquiries (AAI) under CERCLA § 101(35)(B). The purpose of the Phase I ESA was to identify, to the extent reasonably feasible, "recognized environmental conditions" (RECs). ASTM Practice E 1527-05 defines RECs as:

...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, groundwater, or surface water of the property.

RECs include the presence of hazardous substances or petroleum products even under conditions that comply with applicable environmental laws. The term 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.

1.2 Scope of Work

The scope of work included four components, each of which is briefly described below.

1.2.1 Site Reconnaissance Visit

On October 5, 2010, Justin Pounds of MFA conducted a site reconnaissance of the subject Property to look for evidence of RECs. The results of this site visit are documented in Section 5. Mr. Pounds inspected site structures and walked the Property (including the perimeter) to look for evidence of RECs, including evidence of underground storage tanks (USTs), aboveground storage tanks (ASTs), transformers containing polychlorinated biphenyls (PCBs), and use and storage of hazardous material. MFA also observed adjacent and neighboring properties.

1.2.2 Records Review

MFA reviewed the following records:

- State and federal agency database records as described in Section 4.1.
- Aerial photographs of the site as described in Section 4.2.1.
- Sanborn Fire Insurance Maps (SFIMs) for the Property, if available. See Section 4.2.2.
- Polk historical city directories for the Property, if available. See Section 4.2.3.
- Prior site assessment reports for the Property, if available. See Section 4.3.

The U.S. Geological Survey 7.5-minute quadrangle map (1990) for Wenatchee was used as the physical setting source (see Figure 1).

1.2.3 Interviews

To obtain site-specific information regarding the Property, MFA interviewed current and/or former managers, owners, occupants, and operators of the Property and adjoining properties as deemed prudent. MFA also interviewed state and/or local government officials for information about the Property. The interviews are discussed in detail in Section 6 of this report.

1.2.4 Report Preparations

MFA prepared this report in accordance with the format recommended by ASTM E 1527-05. Consistent with this ASTM guidance document, the following issues were not evaluated during the Phase I ESA: asbestos-containing building materials; radon; lead-based paint; lead in drinking water; wetlands; regulatory compliance; cultural and historic resources; industrial hygiene; health and safety; ecological resources; endangered species; indoor air quality; biological agents; toxic fungus; mold; and high-voltage power lines.

1.3 Significant Assumptions

Significant assumptions include any assumptions made during the Phase I ESA process that have the potential to impact the opinions put forth in the report. No significant assumptions were made in the preparation of this report.

1.4 Limitations and Exceptions

Any opinions and/or recommendations presented in this Phase I ESA report apply to conditions that existed at the Property when the services were performed. No environmental assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of a Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the existence of RECs in connection with a property.

MFA conducted AAI regarding the potential for RECs at the Property. ASTM E 1527-05 defines AAI as

...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.

MFA is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services, and does not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

1.5 Special Terms and Conditions

No special terms or conditions apply to this Phase I ESA other than those set forth in ASTM Standard E 1527-05, CERCLA 101(35)B(iii), and 40 CFR Part 312.

1.6 Deviations

There were no deviations from ASTM Standard Practice E 1527-05, CERCLA 101(35)B(iii), and 40 CFR Part 312.

1.7 Additional Services

In addition to these services provided within the scope of ASTM Standard Practice E 1527-05 for Phase I ESAs, MFA directed a geophysical survey using magnetic,

electromagnetic, and seismic refraction survey techniques to attempt to identify approximate former landfill boundaries and volume at the Property (refer to Appendix A. Additionally, MFA coordinated subsurface investigation activities involving the advancement of soil borings to install peizometers and to assess soil gas and petroleum hydrocarbon conditions at areas of concern on the Property. Results of these activities are presented in Appendix B.

Geophysical survey results indicate that the area of the historical landfill includes portions of the northern, northwestern, and eastern sections of the Property. Geophysical survey results also indicate that the thickest areas of landfill debris are on the eastern portion of the Property (refer to Appendix A). The depth of the landfill debris has not been conclusively defined.

Subsurface investigation activities completed by MFA are presented in Appendix B. Based on groundwater measurements obtained from the three piezometers installed at the Property (PZ1 through PZ3), the potentiometric surface of shallow groundwater migration is to the south-southwest. Soil gases were assessed in four locations (SG1 through SG4) positioned throughout the Property. Field screening of soil gas indicates the presence of volatile organic compounds (VOCs) and combustible gases indicative of active biodegradation of refuse in the vicinity of the historical landfill. The combustible gas measurements were at or above the lower explosive limit in the borings completed in the area of the landfill. Soil potentially impacted by petroleum hydrocarbons was collected from one boring (GP1, located in the central portion of the Property) and analyzed. Soil laboratory analytical results indicate that concentrations of chemicals present in the stained subsurface soil are below the Model Toxics Control Act (MTCA) Method A soil cleanup levels (refer to Appendix B).

1.8 Qualifications of Responsible Environmental Professionals

The Phase I ESA of the Property was conducted by environmental professionals experienced in performing ESAs and familiar with ASTM Standard Practice E 1527-05 and industrial facility operations. Résumés of the environmental professionals involved in the performance of the Phase I ESA are included in Appendix C.

1.9 Reliance

For the purposes of the contractual relationship, the term "Client" refers to the City of Wenatchee, which has sole permission to rely on this report.

2.1 Property Location and Legal Description

The approximately 3.34-acre Property is located at 25 North Worthen Street, on Chelan County tax lot number 222003821007 in section 3, township 22 north, range 20 east, of the Willamette Meridian (see Figure 1).

2.2 Site and Vicinity Characteristics

The Property is currently zoned "Waterfront Mixed Use." The Property is currently occupied by a vacant building formerly used for public works equipment repair. In general, the Property slopes gently to the west-northwest from its highest elevation at 638 feet in the western portion of the Property, downward to an elevation of 617 feet in the east. The Property is adjacent to the Columbia River to the east-northeast and North Worthen Street to the west-southwest. Generally, mixed use and commercial businesses surround the Property (refer to Figure 2).

2.3 Current Property Uses

The Property is vacant and is not currently in use.

2.4 Descriptions of Roads, Structures, and Other Improvements on Site

The Property is accessed from the southwest by North Worthen Street. The Property is occupied by an approximately 7,200-square-foot vacant building and associated asphalt and gravel paved lot (see Figure 2).

2.5 Past Property Uses

According to historical sources, including interviews with the Client, the Property was undeveloped until the 1950s when landfilling began. Landfilling, including refuse and incinerated material, took place at the Property through approximately the early 1970s. In the 1950s the City of Wenatchee constructed a public works maintenance facility at the Property that was used for general equipment repair, oil changes, parts washing, and limited fabrication. The public works facility also maintained fueling operations with two associated USTs. A heating oil UST was also used at the Property.

According to the Client, the Property was used for sand and gravel mining in conjunction with refuse landfilling in the 1960s. In the 1980s, the eastern and southern portions of the Property were converted into the public park space, still in place today. Public works operations at the Property ceased in approximately 2006 and two of the three structures on site were demolished.

2.6 Past and Current Uses of Adjoining Properties

The Property is bordered by the following:

- North—A parking lot for public park space and beyond the Wenatchee wastewater treatment facility.
- South—An access road and commercial and industrial facilities, including the Pybus Steel Company.
- East—Public park space and, beyond, the Columbia River.
- West—North Worthen Street, a privately owned space historically used as a concrete depot and pole storage yard; railroad tracks; and commercial business facilities, including Pacific Coca Cola Bottling and Central Washington Water, Inc.

MFA provided a User Data Request Form to the Client (the user). A copy of the completed form is included as Appendix D. The Client also provided MFA with a copy of Form 17 Commercial, also included in Appendix D.

3.1 Title Records

Title records were provided by Central Washington Title Company and were reviewed to identify environmental liens or activity and use limitations, if any, that are currently recorded against the Property. The title report is included as Appendix E.

3.2 Environmental Liens or Activity and Use Limitations

Mr. King reported that, to the best of his knowledge, there were no environmental liens or activity and use limitations on the Property. While the Environmental Data Resources, Inc. (EDR) report indicates that there is a National Priority List (NPL) lien on the Property, title documents showing a clear chain of title to 1888 indicate that no such lien was ever recorded.

3.3 Specialized Knowledge

The user provided no specialized knowledge regarding the Property.

3.4 Commonly Known or Reasonably Ascertainable Information

The user provided the following information, commonly known or reasonably ascertainable within the local community, that is relevant to RECs in connection with the Property:

- Historical aerial photographs;
- The Budinger & Associates Geotechnical & Materials Engineers (B&A) 1981 soil and gas generation investigation; and
- Ecology and Environment, Inc.'s (E&E) 2000 Targeted Brownfields Assessment Report.

3.5 Valuation Reduction for Environmental Issues

The user has determined that the purchase price has not been affected by the presence of contamination.

3.6 Owner, Property Manager, and Occupant Information

According to Mr. King, the Property is owned by the City of Wenatchee and managed by the public works department, and is currently vacant.

3.7 Reason for Performing the Phase I ESA

The Client reported that the purpose of this Phase I ESA is due diligence in preparation for potentially selling or leasing the Property for areawide redevelopment.

4.1 Standard Environmental Record Sources

MFA contracted EDR to search state and federal agency record sources for information regarding the Property and sites near the Property. All databases were searched using the standard search distances specified in ASTM E 1527-05. The sites identified by this database search are shown in the following table. A list of "orphan" sites with inadequate address information for mapping was also researched, and orphan sites found to be within the appropriate search radii are also included in this table. The EDR-generated report is included in Appendix F.

	Sites Listed				
Databases Searched	EDR Geocheck	Orphan			
Databases Searched to within a 1.0-Mile Radius of the Property					
USEPA National Priorities List Sites (NPL)	0	0			
USEPA Corrective Action Report (CORRACTS)	0	0			
Washington State Hazardous Waste Site (SHWS)	0	0			
Washington State Department of Ecology (Ecology)	5	2			
Voluntary Cleanup Program (VCP)	3	2			
Tribal Equivalent NPL	4	0			
Databases Searched to within a 0.5-Mile Radius of the Pro-	operty				
USEPA's Comprehensive Environmental Response,					
Compensation, and Liability Information System	0	0			
(CERCLIS)					
Resource Conservation and Recovery Act Information					
System Non-CORRACTS Treatment, Storage, and	0	0			
Disposal (RCRIS-TSD)					
Federal Delisted NPL	0	0			
Ecology Independent Cleanup Reports (ICR)	16	0			
Ecology Confirmed and Suspected Contaminated Sites List (CSCSL) No Further Action (CSCSL NFA)	7	0			
Washington Solid Waste Information System	1	0			
(Landfills)					
Brownfields Projects	1	0			
Ecology Leaking Underground Storage Tank (LUST)	4	0			
Database	4	U			
LUSTs on Indian Land	0	0			
Tribal Databases (CERCLIS-Equivalent, Voluntary	0	0			
Cleanup Sites, Brownfields Sites, Landfill Sites)	U	U			
CERCLIS "No Further Remedial Action Planned" (NFRAP)		0			
		<u> </u>			
Databases Searched for the Property and Adjoining Properties					

	Sites Listed					
Databases Searched	EDR Geocheck	Orphan				
		P				
Ecology UST Database	1	2				
Ecology AST Database	0	0				
USTs and ASTs on Indian Land	0	0				
USEPA RCRIS Large-Quantity Generator	1	0				
USEPA RCRIS Small-Quantity Generator	0	0				
Databases Searched for the Property Only	Databases Searched for the Property Only					
Emergency Response Notification System (ERNS)	0	0				
United States Engineering Controls Sites List (USEC)	0	0				
United States Sites With Institutional Controls List		0				
(USSIC)	U	U				
Ecology Engineering Controls at Environmental Cleanup Site Information (ECSI) Sites		0				
		U				
Ecology Institutional Controls at ECSI Sites	0	0				
Tribal Engineering/Institutional Controls	0	0				
Additional Environmental Record Sources						
Ecology Underground Injection Control Program	0	0				
(UIC)	U	U				

The EDR report listed the Property under the following databases:

Ecology UST

The Property is listed under the Ecology UST database because of the historical presence of three fuel USTs and one heating oil UST. The EDR lists the fuel USTs as all being 2,000 gallons or less in capacity and all as having been removed in 1998. Interviews with the Client confirm that all USTs were decommissioned and removed from the Property, with the heating oil UST being removed at a later date than the fuel USTs. The Client states that in 2009 the City verified the tank removals by excavating around the locations of the fuel USTs and finding pea gravel with no signs of impacts. Environmental reports from the UST-removal activities were not made available to MFA.

• ICR

The Property is listed under the ICR database due to the confirmed presence and subsequent cleanup of petroleum products in soil. While the EDR indicates that the independent cleanup occurred in 1995, it does not state what type of quantity of petroleum hydrocarbons were present at the Property.

USEPA RCRA-LQG No. 1000878336

 In 1994, the Property was listed under the Resource Conservation and Recovery Act (RCRA) large-quantity generator database because of the facility "generating 1,000 kilograms or more of hazardous waste during any calendar month; or generates more than one kilogram of acutely hazardous waste during any calendar month; or generates more than 100 kilograms of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water..."

Ecology CSCSL NFA

The EDR report states that the Property is a state cleanup site and the NFA determination is pending after assessment, interim remedial action plan, or VCP. According to Krystal Rodriguez of Ecology's Central Region Office, this designation is given to sites where a cleanup action was conducted before any investigation by Ecology and any release or potential contamination encountered would have been removed from the site.

• USEPA Brownfields

- The EDR states that the Property is awaiting a site hazard assessment to determine redevelopment.

Based on MFA's review of the report provided by EDR, the following sites appear to have the potential to impact the Property:

Pacific Coca Cola Bottling 16 North Columbia Street

The Pacific bottling facility is listed in the EDR report as a former UST site that was active from the 1960s through 1996. According to the EDR report, two of these USTs were closed in place and the third was removed. No environmental compliance reports were generated at the time of tank decommissioning, and the status of the tanks at the time of removal is not reported. This facility is located approximately 600 feet west of the Property across Worthen Street.

Pybus Steel Company 4 & 8 Orondo

The Pybus Steel facility is listed in the EDR report as a former UST site that was active from the 1960s through 1996. According to the EDR, there were four USTs at the site, two of which were closed in place and two decommissioned and removed. No environmental compliance reports were generated at the time of tank decommissioning, and the status of the tanks at the time of removal is not reported. This facility is directly adjacent to the south boundary of the Property.

The remaining sites have no reported releases, have reported that cleanup is complete and/or have received NFA determinations from Ecology, and/or have

little potential to impact the Property, based on their proximity and/or elevation in relation to the Property.

4.2 Historical Use Information on Property and Adjoining Properties

MFA used the following information sources to obtain historical use(s) information.

4.2.1 Historical Aerial Photographs Review

Aerial photographs of the Property from 1930, 1945, 1960, 1970, 1991, and 2006 were obtained from the City of Wenatchee and the U.S. Army Corps of Engineers and reviewed to identify historical changes to the Property and the Property's historical uses, if any (see Appendix G).

1930—The Property consists of waterfront land and appears to be mostly undeveloped. The Columbia River is visible to the east while Worthen Street, a large structure, and railroad tracks can be seen to the west-northwest. Small structures are located south of the Property, while additional waterfront land located to the north appears to be undeveloped.

1945—The Property and surrounding area are largely unchanged, except that there is a structure and what appears to be a railroad spur located on the Property in the southwest corner.

1960—The Property and the surrounding area to the south and west have been developed to include the City of Wenatchee Public Works Department buildings and associated parking. The Pybus Steel Company structures are visible to the south. Smaller structures are located west across Worthen Street. The waterfront areas appear to contain pits and piles.

1970—The Property and surrounding area are largely unchanged. The Pybus Steel Company structures are visible to the south of the Property.

1991—The Property is largely unchanged. The parking area in the eastern portion of the Property has been extended and the waterfront areas have been converted into public use spaces. Buildings once located west of the Property across Worthen Street are now gone.

2006—The Property and surrounding area are largely unchanged; however, much of the waterfront land has been converted to public use spaces such as parks and a boat launch. New buildings appear to the west of the Property across Worthen Street.

4.2.2 Sanborn Map Review

SFIMs were requested from EDR. EDR reported that SFIMs for the Property were not available (see Appendix H).

4.2.3 Polk City Directories

EDR reported that city directories for the Property were not available.

4.2.4 Historical Topographic Maps

EDR provided historical topographic maps for the Property for 1913, 1966, 1978, and 1987 (see Appendix I). These maps show the rural character of the Property and the vicinity.

4.3 Prior Environmental Site Assessment Reports for Property

4.3.1 Budinger & Associates

In December 1981, a soil and gas generation investigation was conducted by B&A for a larger area, including the Property. A copy of the soil and gas generation investigation report is included in Appendix J. The investigative effort was completed for an area extending from East 5th Street, north of the Property, to East Orondo Avenue, south of the Property, to investigate the feasibility of construction of a public park area on top of the historical landfill and directly adjacent to the Columbia River.

Based on this work, B&A indicated that, while a great deal of refuse landfilling has taken place at the Property and adjoining areas, the vicinity area was suitable for park construction, with some exceptions. B&A recommended the following: a cap of a minimum of 5 feet in thickness of clean, imported cover material, placed throughout the areas to be developed; passive gas well installation throughout the park area to facilitate venting of methane generated during active decomposition of landfilling refuse; air monitoring for methane; construction of park buildings in areas with adequate subsurface conditions allowing for minimal subsidence; and selective planting of trees that will not have deeply invasive root structures.

4.3.2 Ecology and Environment, Inc.

In June 2000, E&E completed a targeted brownfield assessment at the Property. A copy of this report is included in Appendix J. The subsurface investigation was completed to assess proposed areas of potential contamination, based on background information and interviews with site representatives regarding areas of former landfilling at the Property.

E&E collected 41 soil samples (from ten soil borings) and five groundwater samples and submitted them for laboratory analysis. Soil boring locations were separated into areas interpreted to be inclusive of the former landfill at the Property as well as areas inferred not to be part of the former landfill. Analytical results indicated elevated

concentrations of many analytes of concern, including heavy metals, polycyclic aromatic hydrocarbons (PAHs), semivolatile organic compounds (SVOCs), and VOCs, exceeding Ecology MTCA cleanup levels in both soil and groundwater from samples obtained within and outside the landfill area.

MFA employee Justin Pounds conducted a site reconnaissance visit to the Property on October 5, 2010, during which the Property was visually and/or physically observed for the presence of RECs. Site photographs taken during the site reconnaissance are included in Appendix K.

5.1 Methodology and Limiting Conditions

Mr. Pounds visited and inspected the Property, including site structures, to search for indications of the presence of RECs, including evidence of USTs and ASTs, petroleum products, transformers containing PCBs, and use and storage of hazardous material. The interiors and exteriors of all structures were observed, except for the interior of a portion of the building located on the Property. The Property and adjacent properties were also observed from public thoroughfares.

5.2 General Site Setting

5.2.1 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

The Property is at an elevation of approximately 635 feet above mean sea level. In general, the Property slopes gently to the west-northwest from its highest elevation at 638 feet in the western portion of the Property, downward to an elevation of 617 feet in the east. The Property is adjacent to the Columbia River to the northeast and North Worthen Street to the southwest. Generally, mixed use, commercial, and industrial businesses surround the Property.

The piezometers installed on the Property by MFA indicate that groundwater flows to the south-southwest, generally away from the Columbia River (See Appendix B).

5.2.2 Description of Structures

The Property is currently not in use and a single, approximately 7,200-square-foot structure formerly used as an office and warehouse for light duty trucks and water meter equipment is located in the northeast corner (see Figure 2).

5.2.3 Potable Water Supply

Potable water is provided by the City of Wenatchee.

5.2.4 Sewage Disposal System

The Property is connected to the City of Wenatchee municipal sewage disposal system.

5.2.5 Solid Waste

Evidence of on-site solid-waste disposal was observed during environmental drilling and has been historically documented in connection with the Property.

5.2.6 Wastewater

Wastewater generated on the Property is directed through an oil/water separator and is discharged into the City of Wenatchee's wastewater treatment plant located adjacent to the north property boundary.

5.2.7 Stormwater

Stormwater on the Property is discharged into the City of Wenatchee wastewater treatment plant. Stormwater from a portion of the Property is directed through an oil/water separator before flowing to the treatment plant. According to the Client, two storm discharge pipes exit from the Property into the Columbia River, but they are connected to the storm drainage system draining downtown Wenatchee areas west of the Property.

5.2.8 Wells

No evidence of historical wells was observed. Three piezometers were installed by MFA as a supplemental task to this Phase I ESA.

5.2.9 Septic Systems

No evidence of septic systems was observed.

5.2.10 Heating and Cooling

The building at the Property is heated with electric heat. The historical heat source for the Property was heating oil. According to the Client, a leaking heating oil UST was removed from the Property. Ecology records indicate that the USTs were removed from the Property in 1994.

5.3 Interior and Exterior Observations

Photographs taken during this site reconnaissance are included as Appendix K.

5.3.1 Hazardous Substances and Petroleum Products in Connection with Identified Uses

According to the EDR report, three USTs historically were located on the Property. According to Ecology records, the tanks consisted of the following: one 2,000-gallon UST containing leaded gasoline fuel; one 2,000-gallon UST containing unleaded gasoline fuel; and one 2,000-gallon UST containing diesel fuel. The tanks were decommissioned and removed in 1994. While the EDR and Ecology records indicate that there was a release associated with one of these tanks, the amount of release was small and was cleaned up before Ecology's initial investigation. At least two of these USTs were in the southern portion of the Property, where the City of Wenatchee fueling center was located.

According to the Client, a heating oil tank was removed at a later time in the northern portion of the Property. The Client indicated that there was a small release of approximately 200 gallons of fuel associated with this UST. Any stained soil encountered during the tank-removal activities was also removed from the Property. Based on the differences in the Ecology database, EDR, and Client interviews, it is unclear if there were three fueling tanks associated with the City of Wenatchee fueling center formerly located in the southern portion of the Property, with the unregulated heating-oil-containing UST constituting a fourth tank. However, the Client did state that during heating-oil-containing-UST removal activities, test pits were advanced in the area of the former City of Wenatchee fueling center and no more tanks were encountered.

5.3.2 Storage Tanks

Currently, no USTs or ASTs are known to be located at the Property.

5.3.3 Drums

Three 55-gallon drums of used motor oil were observed south of the maintenance facility building during site reconnaissance. In addition, one approximately 20-gallon drum was observed in this same area. No drums were labeled. The drums appeared to be in good condition, and stained pavement was not observed in the vicinity of the drums. During the additional services performed by MFA in conjunction with this Phase I ESA, two additional 55-gallon drums were left at the Property— one labeled W-1 and containing decontamination/purge water, and one labeled S-1, containing soil from subsurface investigation activities completed.

Refer to Figure 2 for the location of all hazardous substances and petroleum products.

5.3.4 Unidentified-Substance Containers

No drums observed at the Property during site reconnaissance were labeled as to their contents.

5.3.5 Odors

No odors were observed.

5.3.6 Pools of Liquid

No pools of liquid were observed.

5.3.7 PCBs

PCBs are a USEPA-regulated toxic substance. In 1980, PCBs above a concentration of 50 parts per million were banned from commerce for most applications. PCBs are commonly found in electrical equipment manufactured before 1980, including poleand pad-mounted, fluid-filled electrical transformers, capacitors, and ballasts associated with fluorescent light fixtures.

A single, 480-volt, pad-mounted transformer is located on the Property. In addition, fluorescent light fixtures were observed in the former heavy-equipment maintenance building. Stickers denoting the quantity of PCBs were not observed. No staining was observed in association with the transformer. Refer to Figure 2 for the location of the transformer.

5.3.8 Drains or Sumps

No drains or sumps were observed in the building; however, two oil/water separators are present at the Property.

5.3.9 Pits, Ponds, or Lagoons

No pits, ponds, or lagoons were observed.

5.3.10 Stained Soil, Pavement, or Flooring

During the site visit, small amounts of staining were observed in the paved parking area. However, these stains were small and are considered de minimis. Surface soil staining was not observed in the graveled areas of the Property, the concrete floor of the former buildings, or the concrete floor of the existing building.

Stained soil was observed in the subsurface during the reconnaissance work (see Section 1.7 and Appendix B).

5.3.11 Stressed Vegetation

No stressed vegetation was observed.

6.1 Interview(s) with Representative(s) of Owner

MFA was directed to Mr. Steve King, representative for the current Property owner, for general and site-specific information regarding the Property. Mr. King is the director of public works for the City of Wenatchee. Mr. King indicated that, to his knowledge, there were no pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products on the Property. He was aware of no notices from any government agency regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products relative to the Property. According to Mr. King, there are no environmental liens on the Property.

Mr. King stated that three USTs had been decommissioned and removed from the Property. One heating-oil-containing UST showed indications of leaking, and stained soil was encountered during its removal. Mr. King stated that individuals working at the Property at the time indicated that approximately 200 gallons of heating oil had leaked from the UST. Mr. King stated that during the removal of the heating oil UST, all soil apparently impacted with petroleum hydrocarbons was excavated and removed from the Property. No environmental reports of any UST removal from the Property were made available to MFA. Mr. King also stated that minor spills of magnesium chloride historically used for road de-icing may have occurred.

6.2 Interview with Key Site Manager and Occupant(s)

MFA was directed to Mr. King for general and site-specific information regarding the Property. Refer to Section 6.1 for interview details.

6.3 Interview(s) with Previous Operator(s), Owner(s), and Occupant(s)

Contact information for previous operators, owners, and occupants was not provided. This is not a significant data gap because of the length of ownership and operation by the City of Wenatchee Public Works.

6.4 Interview(s) with State and/or Local Government Officials

MFA interviewed Mr. Norm Peck of Ecology for information regarding the Property and surrounding area. Mr. Peck was chosen for an interview because he is the Ecology Toxics Cleanup contact associated with the Property. According to Mr. Peck, Ecology does not have documentation about the landfill in the Ecology Solid Waste Program. Based on the time frame of landfill operation, Mr. Peck assumed that no closure screening had occurred, and the landfill was likely closed before minimal closure requirements were adopted.

MFA interviewed Ms. Krystal Rodriguez of Ecology for information pertaining to the USTs formerly located at the Property and for background information regarding the CSCSL NFA listing in connection with the Property.

MFA interviewed Mr. David Prosch of the Chelan-Douglas Health District about any current or historical information about the use of the Property as a landfill. He had no records about the historical landfill at the Property.

MFA interviewed Ms. Yolanda Garcia of the City of Wenatchee Fire Department about any records pertaining to the Property. She stated that her department had no records of any hazardous releases or UST installation or removal in connection with the Property.

6.5 Interview(s) with Owners or Occupants of Adjoining or Nearby Properties

Interviews with owners or occupants of nearby properties are required for properties that have been abandoned and that have evidence of potential unauthorized uses or evidence of uncontrolled access. Adjoining properties do not fit this description; therefore, interviews of these neighbors were not conducted.

6.6 Other Interviews

No other interviews were conducted.

7.1 Recognized Environmental Conditions

- USTs. Three fuel underground storage tanks (USTs) were located at the Property from the 1960s through the 1990s, when the Property was used as a City fueling station. The USTs have been removed and it was reported that petroleum-hydrocarbon-stained soil was encountered during their removal. In 2009, the City excavated around the location of the USTs and found pea gravel and no signs of impacts. A heating oil UST was also located and the property and was decommissioned and removed. Reportedly the soil impacts were removed and further investigation showed no evidence of impacts. However, there are no soil analytical results confirming complete removal, and therefore the soil around the former UST excavations are considered a REC.
- Historical Landfill. A landfill that operated from the 1950s through the 1970s is on the eastern portion of the Property and on areas extending to the north, west, and south. Interviews and site-related documents indicate that there is landfill waste on the Property and that soil and/or groundwater are impacted above Ecology cleanup levels with the following constituents of concern: metals, including cadmium, chromium, arsenic, and lead; VOCs; SVOCs, including PAHs; and total petroleum hydrocarbons (TPH). Soil gas samples from the portions of the Property where the landfill is present show the presence of VOCs and of combustible gases at or above the lower explosive limit. Therefore, the impacts from the landfill to soil, groundwater, soil gas, and the landfill material are RECs.

7.2 Historical Recognized Environmental Conditions

No historical RECs where identified in connection with the Property.

7.3 De Minimis Conditions

- **Drums.** Four drums were observed on the Property during the site visit and two drums were generated during the site investigation activities. All of the drums were in good condition and no staining was observed in their vicinity.
- Soil Staining. Minimal amounts of soil staining composed potentially of petroleum hydrocarbons were noted at the Property

during site reconnaissance. The stains were small and confined to the parking lot area.

- Transformers. One pad-mounted transformer is located on the Property. Stickers denoting the quantity of PCBs were not observed and there was no staining around the transformer.
- Oil/Water Separators. Two oil/water separators are located at the Property, and were presumably used during -equipment cleaning at the Property. A noticeable sheen was present on water located within each access point. Upon development of the Property, these oil/water separators should be properly decommissioned.
- Heavy-Equipment Storage. Through approximately 2006, the Property was used for parking city public works street cleaning trucks, storm sewer vacuum trucks, and lawn mowers. No obvious signs of impacts from these activities were observed on the Property.
- Onsite Contaminant Migration. The property to the south operated by Pybus Steel had four USTs that were decommissioned. There were no decommissioning reports available and no indication that the UST impacted the environment. Due to the proximity of the Pybus property it is possible, but not likely, that impacts from the former USTs could migrate onto the Property.

7.4 Data Gaps

No significant data gaps were identified. However, the following minor data gaps were identified in connection with the Property:

- Aerial photographs showing the Property throughout development at fiveyear intervals were not available. This data gap is not significant, based on other available site information, and has no impact on the conclusions and recommendations of this report.
- Former owners or occupants of the Property could not be interviewed, based on the Property's longstanding use by the City of Wenatchee. This data gap is not considered significant, based on the known historical uses of the Property.
- The EDR report indicates that the Property is listed on the NPL LIENS. A
 complete title review indicates that no lien was ever recorded in connection
 with the Property.

7.5 Additional Investigation

In addition to these services provided within the scope of ASTM Standard Practice E 1527-05 for Phase I ESAs, MFA directed a geophysical survey using magnetic,

electromagnetic, and seismic refraction survey techniques to attempt to identify approximate former landfill boundaries and volume at the Property (refer to Appendix A). Additionally, MFA coordinated subsurface investigation activities involving the advancement of soil borings to install piezometers and to assess soil gas and soil conditions at the Property. Results of these activities are presented in Appendix B.

7.6 Activity Use Limitations Compliance

There were no Activity Use Limitations to report.

8 conclusions

MFA has conducted a Phase I ESA, in conformance with the scope and limitations of ASTM Practice E 1527-05, of 25 North Worthen Street in Wenatchee, Washington, the Property. Any exceptions to, or deviations from, this practice are described in Section 1 of this report.

The Phase I ESA revealed evidence of RECs in connection with the Property.

The services undertaken in completing in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our Client. This report is solely for the use and information of our Client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the Client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

The purpose of an environmental assessment is to reasonably evaluate the potential for or actual impact of past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not, therefore, be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

Environmental conditions that cannot be identified by visual observation may exist at the site. Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our Client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminate concentrations that are not of current environmental concern may not be reflected in this document.

FIGURES



Site Address: 25 N Worthen St, Wenatchee, WA Source: US Geological Survey (1990) 7.5-minute topographic quadrangle: Wenatchee Section 3, Township 22N, Range 20E

Figure 1 Site Location

City of Wenatchee Wenatchee, Washington



0 1,000 2,000 Feet



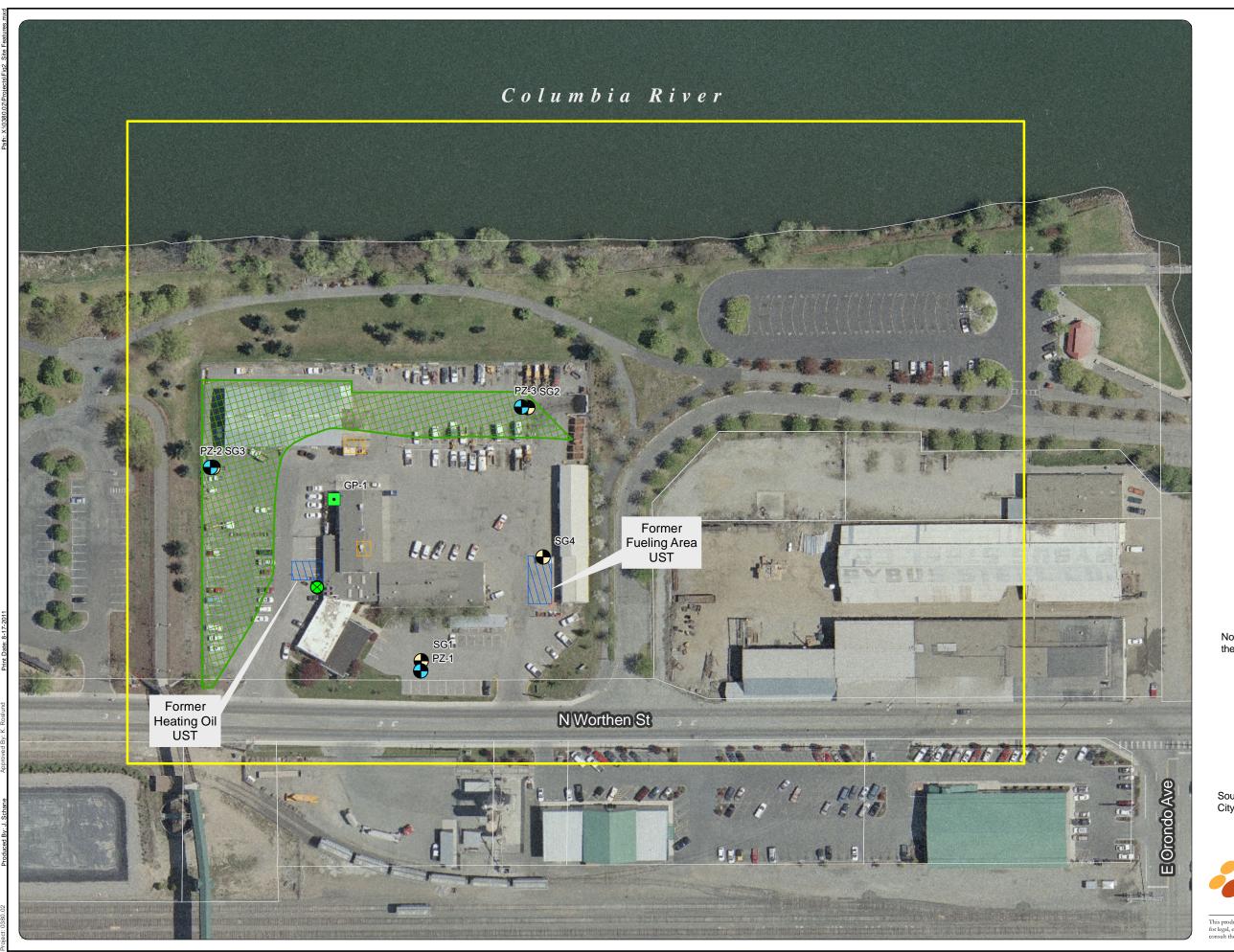


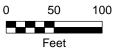
Figure 2 Site Features

City of Wenatchee Wenatchee, Washington

Legend

- Monitoring Wells
- Soil Gas Samples
- Geoprobe Boring
- Transformer
- Former UST
- Oil Water Separators
- Measured Landfill Area
 - Chelan County Taxlots
- Area of Interest

Note: Measured Landfill Area obtained from the City of Wenatchee.





Source: Aerial photograph obtained from the City of Wenatchee (2006)



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

APPENDIX A

ADDITIONAL SERVICES PERFORMED— GEOPHYSICAL SURVEY





1600 SW Western Boulevard, Suite 200 PO Box 1063, Corvallis, OR 97339-1063

Phone: (541) 757-7231 FAX: (541) 757-7331 www.nga.com info@nga.com

September 21, 2010 NGA Ref. 752

Alan Hughes, L.G. Maul Foster & Alongi, Inc. 7223 NE Hazel Dell Avenue, Suite B, Vancouver, WA 98665

Re:

Geophysical Site Investigation 25 N Worthen Street Wenatchee, Washington

Dear Mr. Hughes;

Northwest Geophysical Associates, Inc. (NGA) conducted a geophysical site investigation at 25 N. Worthen Street, Wenatchee, Washington (Figure 1). This report summarizes the findings of the investigation. The tract includes the location of a former municipal waste landfill that ceased operation in approximately 1971. NGA performed this investigation for Maul Foster & Alongi (MFA) and the City of Wenatchee.

The geophysical investigation included two tasks: 1) map the lateral limits of the former disposal areas using magnetics (MAG) and electromagnetics (EM), and 2) map the depth to bedrock, or thickness of debris, along three 200-foot profiles using seismic refraction. Figure 2, shows the area surveyed, approximately 6 acres, including the former public works facility at 25 N. Worthen Street and extending into the park area between the former facility and the Columbia River. Figure 2 also shows the interpreted results of the MAG and EM surveys. Figures 3 through 5 show interpreted seismic profiles from the seismic refraction survey.

1 FIELD SURVEY

Geophysical fieldwork was carried out August 23 through 25, 2010, by a geophysicist and a geophysical technician from NGA.

1.1 Task 1 – Mapping Lateral Limits of Debris

Task 1 included both an electromagnetic (EM) survey utilizing the Geonics EM31 terrain conductivity meter and a magnetic (MAG) survey utilizing a Geometrics G858G

magnetometer/gradiometer. Both sets of data were acquired on a 10-foot line spacing in order to map the debris limits in an area with numerous abandoned utilities and foundation remnants. In the park area to the northeast line spacing was increased to 20 feet.

1.1.1 Magnetic Data Acquisition

The MAG survey was conducted using a Geometrics G858G cesium magnetometer/gradiometer. This instrument was run in the "continuous" sampling mode, recording the magnetic field at 0.1 second intervals (approximately 0.5 feet). Two magnetic sensors spaced 0.5 meters apart, one above the other, were used to obtain the vertical magnetic gradient. Magnetic survey lines are shown in Figure 2 and the MAG data plots are presented in Appendix A.

1.1.2 EM Data Acquisition

EM data were acquired using a Geonics EM31 terrain conductivity meter. Both quadrature-phase (conductivity) and in-phase data were recorded. Data were recorded at a 0.1 second sample rate corresponding to about 0.5 feet at a normal walking pace. Electromagnetic survey lines are shown in Figure 2 and the EM data plots are presented in Appendix A.

1.1.3 Data Processing

Magnetic (MAG) and electromagnetic (EM) data were processed using the Geosoft OASISmontajTM Data Processing and Analysis software system.

1.2 GPS Survey Control

Location data were acquired simultaneously with the MAG and EM data using two Trimble AG132 GPS systems. That system provides visual feedback to the operator to assure that he is "on line" and that the survey area is covered uniformly. This system is a real time differential global positioning system (DGPS) using a US Coast Guard beacon for the differential correction. The DGPS system has "sub-meter" accuracy; hence positions are generally good to ± 1 -2 feet, but may be off by 2-3 feet.

Positions were also obtained for manholes, light posts, and other features using a Trimble ProXRS with differential correction. The base map, showing former building locations, was provided by MFA.

Map coordinates given on the Figures and Appendices are Washington State Plane-North, 1983 North American Datum (NAD83), with distances in US Survey feet.

1.3 Task 2 – Mapping Vertical Extent of Debris

Seismic refraction data were acquired following the EM and MAG survey. A Geometrics 24 channel Geode system with 14 Hz geophones was used with geophone spacing of 10 feet. Shot spacing was generally 40 feet, with a nominal 9 shots per spread. Off end shots were adjusted to fit the site. A 16 pound sledgehammer was used as the energy source, generally stacking from 3 to 8 hammer blows per shot record. Often two separate stacks were recorded a each shot point.

Three seismic profiles were acquired, Lines 1, 2 and 3. Seismic data were processed using SeisImager software from Geometrics and the OYO Corporation. Two layer interpretations are presented in Figures 3-5.

2 RESULTS AND INTERPRETATION

2.1 Magnetic and Electromagnetic Interpretation

Our interpreted lateral limit of the former landfill is shown on Figure 2, as well as on the data plots, Figures A1-A5. The geophysical response from the entire site is quite busy, with numerous small anomalies from orphaned utilities, building foundations, sign posts (many cut off at ground level) and other assorted metallic objects. Hence the landfill boundary is not as distinct as some sites, but it is recognized by the transition in geophysical character across the site.

A strong magnetic anomaly extends along the interpreted western limit of the landfill. We interpret this as due to a steep drop in the basalt bedrock elevation. Thus the area to the east, the landfill area, has considerably deeper basalt. One possible interpretation of past site uses includes burial/concentration of debris in the area of deeper basalt. This interpretation is consistent with the seismic data as discussed below. The interpretation of the northern magnetic high is less certain as it occurs in an area where numerous abandoned utilities are expected.

2.2 Seismic Interpretation

Seismic line locations are shown on Figure 2 and interpreted profiles in Figures3-5.

Seismic Line 1, shown in Figure 3, was run about 10 feet east of the fence along the back side (east) of the site. Velocities between 1,100 ft/sec and 2,400 ft/sec were observed, with high attenuation and no bedrock refractor. These velocities are typical of poorly consolidated soils and/or landfill debris. Our interpreted seismic velocity data estimate bedrock is in excess of 50 feet below ground level.

Seismic Line 2, shown in Figure 4, was run perpendicular to SL1, extending across the landfill boundary to the west. That line shows a strong transition between profile

distances 160 and 180, corresponding with the interpreted landfill boundary. On the west half of seismic line 2 the interpreted depth to weathered basalt (4,500 ft/sec) was 20 to 30 feet. On the east half of seismic line 2 the seismic signal was highly attenuated and the interpreted bedrock surface was beyond our maximum depth-of-exploration, greater than 50 feet.

Seismic Line 3, shown in Figure 5, was run paralleling (15 feet south) the fence along the north side of the site. The interpretation shows bedrock (6,900 ft/sec) at a depth of 30 to 40 feet. Above the bedrock velocities of 1,900 ft/sec are indicative of poorly consolidated soils and/or landfill debris.

3 CLOSURE

Northwest Geophysical Associates, Inc. has performed this work in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. No warranty, express or implied, beyond exercise of reasonable care and professional diligence, is made. This report is intended for use only in accordance with the purposes of the study described within.

Thank you for the opportunity to work with MFA and the City of Wenatchee on this project. Should you have questions or need additional information please call at your convenience.

Yours truly,

Northwest Geophysical Associates, Inc.

Rowland B. French, L.G.

President

Attachments:

Figure 1 Site Location

Figure 2 Geophysical Interpretation Summary

Figures 3-5 Interpreted Seismic Profiles, SL1, SL2, & SL3

Appendix A - MAG and EM Data Plots

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PROJECT: 752

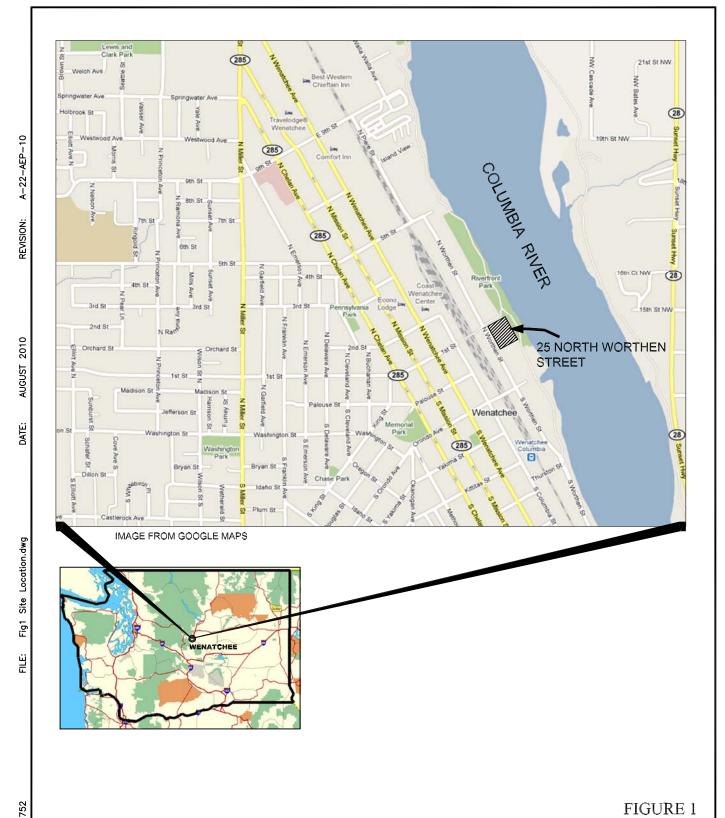


FIGURE 1

SITE LOCATION

Geophysical Site Investigation 25 N. Worthen Street Wenatchee, Washington

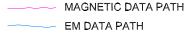
Prepared by:



NGA Project #:











- * LAMP POST
- STORM DRAIN GRATE
- oS MAN HOLE-SEWER
- BOLLARD or POST
- ¬ LOCATION OF FORMER L___ BUILDING

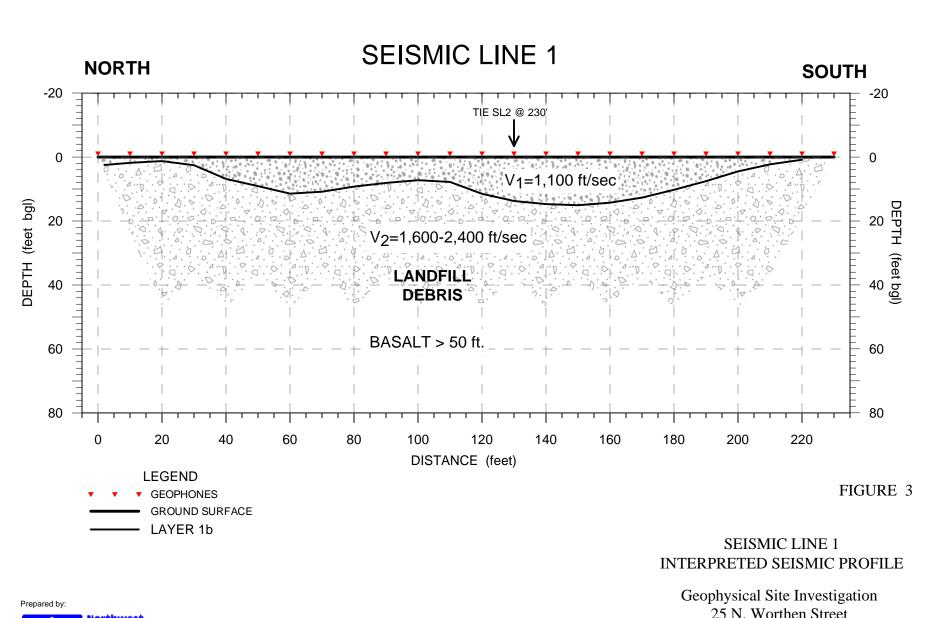
FIGURE 2

GEOPHYSICAL INTERPRETATION **SUMMARY**

Geophysical Site Investigation 25 N. Worthen Street Wenatchee, Washington

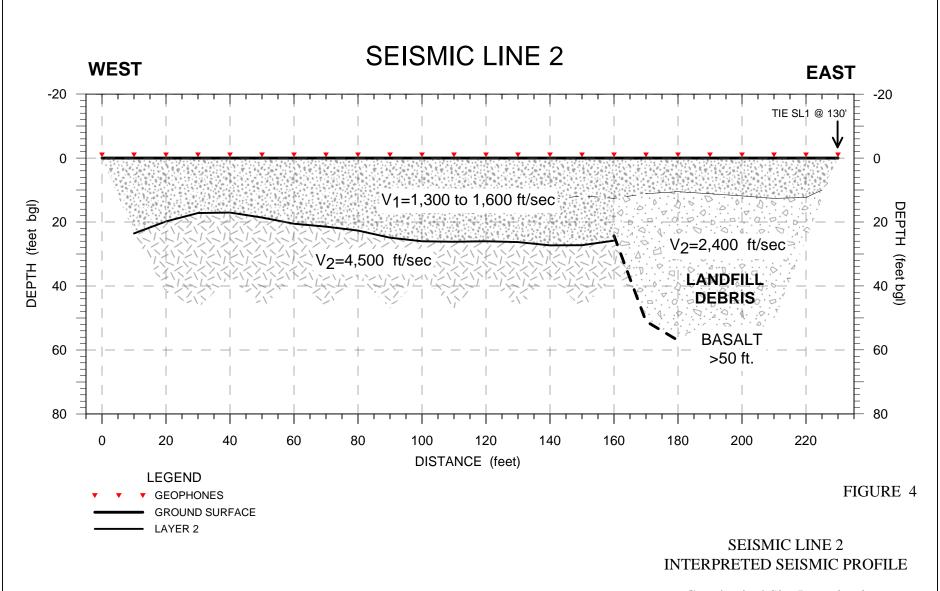


NGA Project #: 752 FILE: SL1.grf REVISION: A-20-SEPT-2010



Northwest Geophysical Associates, Inc.

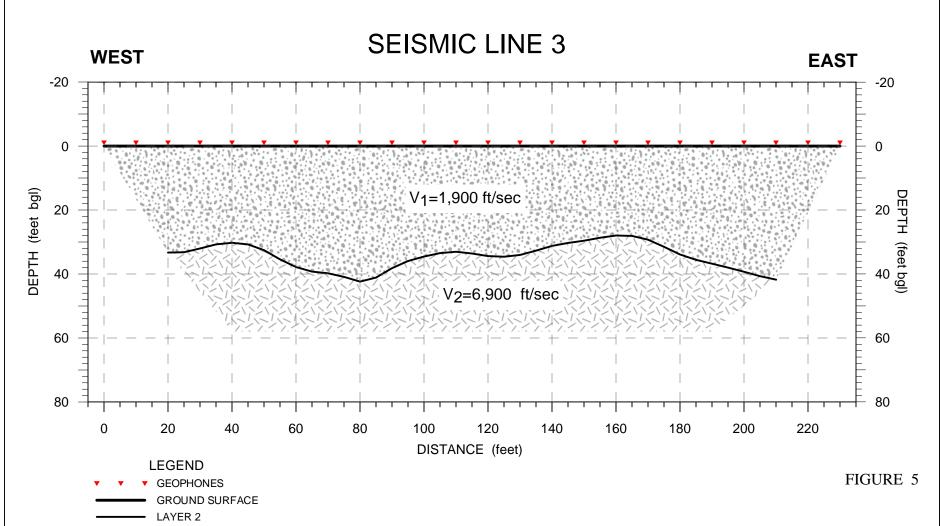
25 N. Worthen Street Wenatchee, Washington NGA Project #: 752 FILE: SL2.grf REVISION: A-19-SEPT-2010



Geophysical Site Investigation 25 N. Worthen Street Wenatchee, Washington



NGA Project #: 752 FILE: SL3.grf REVISION: A-18-SEPT-2010



SEISMIC LINE 3
INTERPRETED SEISMIC PROFILE

Geophysical Site Investigation 25 N. Worthen Street Wenatchee, Washington



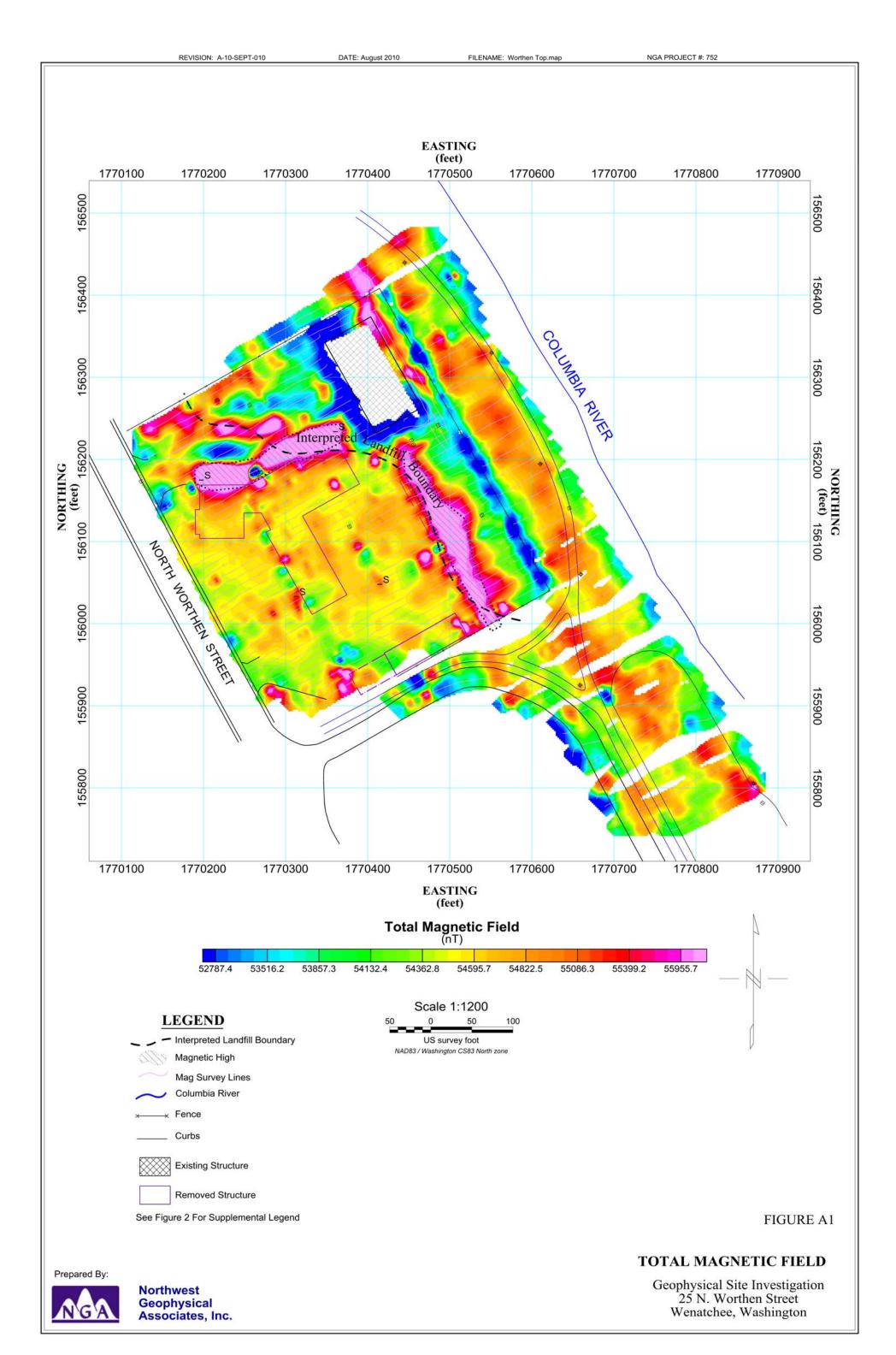
Associates, Inc.

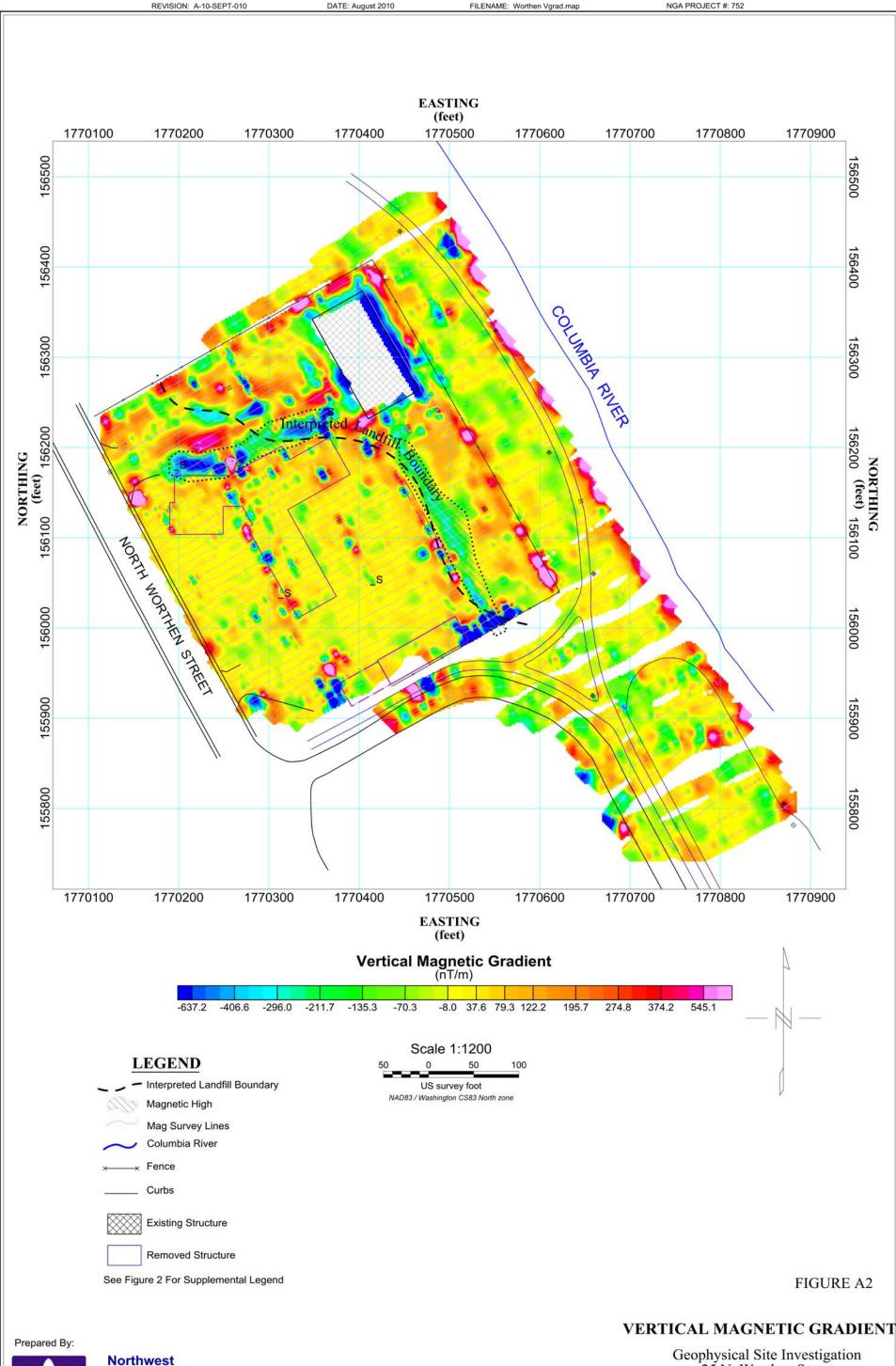
Geophysical Site Investigation 25 N Worthen Street Wenatchee, Washington

APPENDIX A

Geophysical Data Plots

Figure A1	Total Magnetic Field
Figure A2	Vertical Magnetic Gradient
Figure A3	Magnetic Analytic Signal
Figure A4	EM31 Apparent Conductivity
Figure A5	EM31 In-phase Response



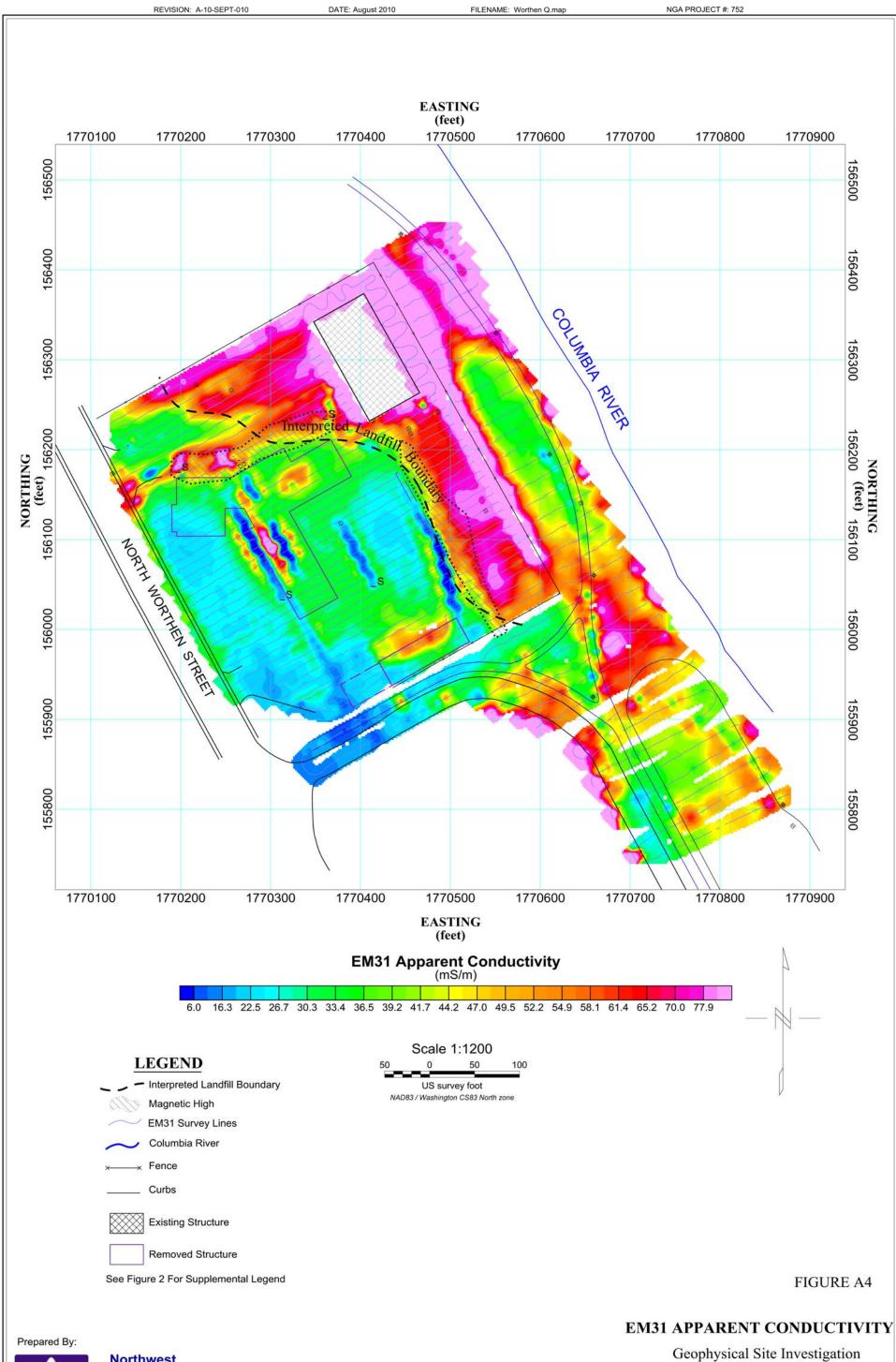


Northwest Geophysical Associates, Inc.

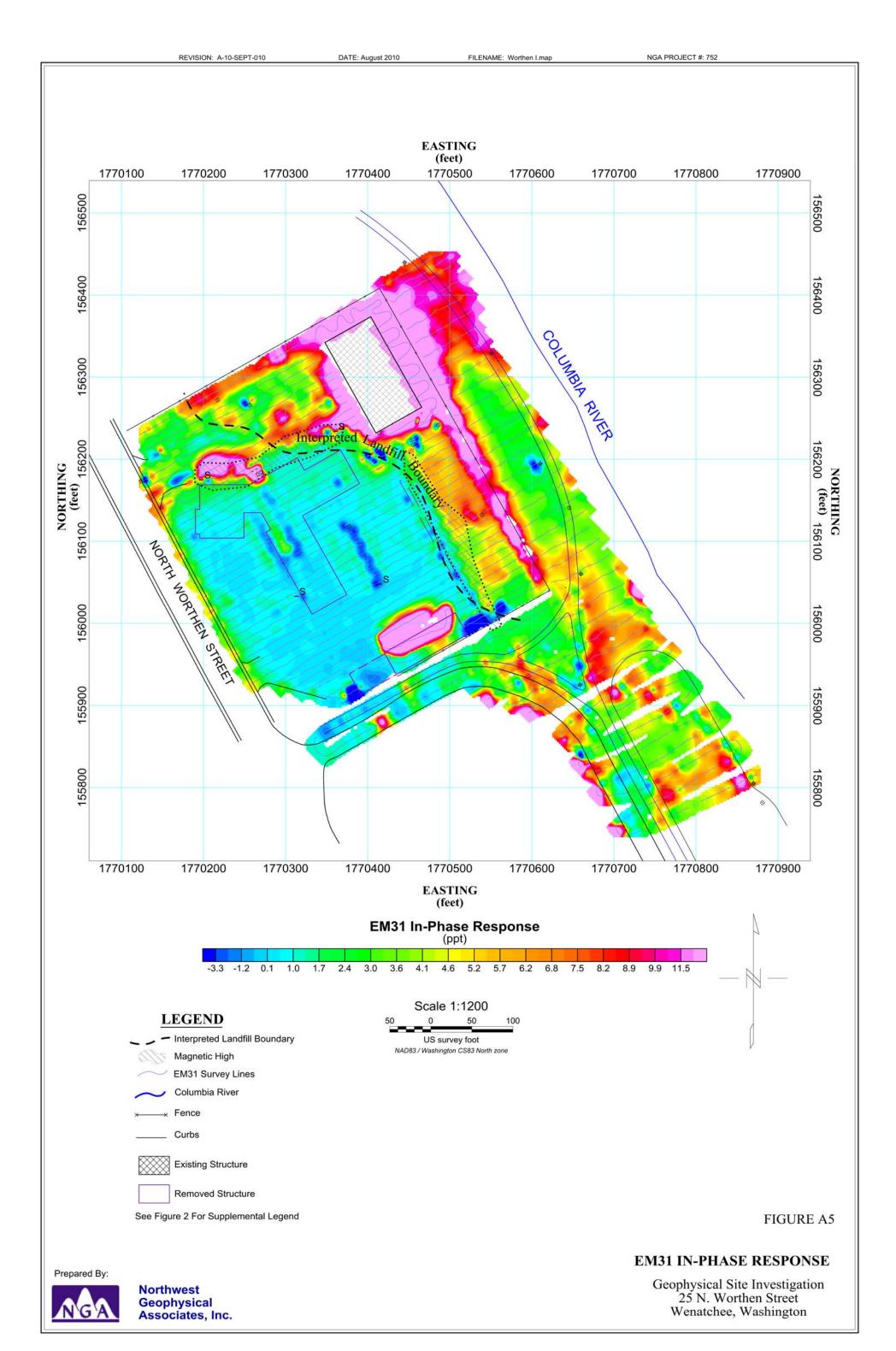
25 N. Worthen Street Wenatchee, Washington

MAA

Northwest Geophysical Associates, Inc. Geophysical Site Investigation 25 N. Worthen Street Wenatchee, Washington



Northwest Geophysical Associates, Inc. Geophysical Site Investigation 25 N. Worthen Street Wenatchee, Washington



APPENDIX B

ADDITIONAL SERVICES PERFORMED— SUBSURFACE ASSESSMENT



7223 NE Hazel Dell Avenue, Suite B | Vancouver, WA 98665 | 360 694 2691 | www.maulfoster.com

Project No. 0380.02.01 Steve King, PE City of Wenatchee Department of Public Works PO Box 519

Wenatchee, Washington 98807-0519

Re: Subsurface Evaluation

Dear Mr. King:

August 31, 2011

At your request, Maul Foster & Alongi, Inc. (MFA) has prepared this letter to summarize the results of a subsurface evaluation performed on the property located at 25 North Worthen Street, Wenatchee, Washington (the Property). During MFA's Phase I environmental site assessment site reconnaissance visit to the Property on October 5, 2010, the following tasks were also completed: 1) installation of three piezometers to assess the potentiometric surface of shallow groundwater at the Property; 2) assessment of combustible gas based on soil gas sampling at the Property; and 3) evaluation of petroleum-hydrocarbon-stained soil located at the Property.

Piezometers PZ1 through PZ3 were installed to assess shallow subsurface groundwater elevations and migration directions at the Property. Soil gas samples obtained were field screened for measurable combustible gas concentrations. Soil samples obtained by the City of Wenatchee Public Works Department (City) in 2009 at areas of surface staining at the Property indicated the presence of heavy-oil-range petroleum hydrocarbons at levels below the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A soil cleanup level; however, the samples were not assessed for other constituents, such as polychlorinated biphenyls (PCBs).

Based on a review of subsurface soil conditions encountered during this evaluation, geophysical findings, and previous environmental subsurface investigations completed at the Property, MFA completed a geologic cross section based on a profile trending from southwest to northeast (W1 to E1) across the central portion of the Property.

PIEZOMETER INSTALLATION AND GROUNDWATER TABLE ASSESSMENT

Three piezometers (PZ1 through PZ3) were installed at the Property on October 5, 2010. Installation locations included: in the east-central portion of the Property adjacent to North Worthen Street (PZ1); in the southeastern corner of the Property adjacent to the access road to the boat launch area (PZ2); and in the northeastern portion of the Property (PZ3) adjacent

Steve King, PE August 31, 2011 Page 2

to the existing former maintenance building (see Figure 1). These soil boring locations were also used for the combustible gas monitoring, which is described below.

Piezometer well design and construction methods conformed to requirements and specifications outlined in Washington Administrative Code (WAC) 173-160 for "resource protection wells" in the State of Washington. The wells were installed to depths ranging from approximately 28 feet to 35 feet below ground surface (bgs). As-built schematics and descriptions of subsurface conditions encountered during soil boring activities are presented in Attachment A. Water levels were measured in October and November 2010 to aid in the creation of a potentiometric surface map for the shallow subsurface groundwater conditions at the Property. The October and November 2010 potentiometric surface maps are presented in Figures 2 and 3, respectively. The potentiometric surfaces indicate that groundwater flow is to the south-southwest, away from the Columbia River.

COMBUSTIBLE GAS ASSESSMENT

Four soil borings (SG1 through SG4) advanced at the Property were used to field screen for the presence of combustible soil gas in the subsurface. Locations of SG1 through SG3 coincided with piezometers PZ1 through PZ3, while SG4 was advanced in the south-central portion of the Property near the approximate location of the former public works fueling site (refer to Figure 1). Locations SG1 and SG4 were outside the area of the landfill, and locations SG2 and SG3 were within the area of the landfill.

Soil gas was screened using a combustible gas indicator and a photoionization detector (PID). Field parameters measured include carbon dioxide (CO₂) measured in volumetric parts per million (Vppm); the lower explosivity limit (LEL) of the soil gas as a percent (%); oxygen (O₂) as a percent; and hydrogen sulfide (H₂S) measured as Vppm. PID readings are also measured as Vppm. The table below shows the results of the soil gas screening at each sample point:

Table Soil Gas Measurements

Location	CO ₂ (Vppm)	LEL (%)	O ₂ (%)	H ₂ S (Vppm)	PID (Vppm)
SG1	155	8	7.3	0.0	5.3
SG2	385	49-100	2.7	0.0	34.3
SG3	509	>100	8.2	0.0	5.5
SG4	46	1.0	5.8	0.0	2.8
NOTE:					
>100 = greater	than the LEL.				

Steve King, PE August 31, 2011 Page 3

Based on the Property's historical use as a landfill, results of soil gas monitoring, specifically for combustible gas concentrations, are indicative of decomposition factors. While many volatile organic compounds (VOCs) may be measured directly via PID readings, the presence of semivolatile organic compounds and low-volatility organic compounds is measured indirectly through the presence of other gases created during biogenic processes (O₂, CO₂, and H₂S). Because combustible gases tend to be heavier than air, there may be localized sinks throughout the Property. Gas concentrations were interpreted at their highest levels (i.e., at or above the LEL) in the vicinity of soil gas borings SG2 and SG3, located in the western portion of the Property in an area interpreted to be within the footprint of the historical landfill.

STAINED SOIL ASSESSMENT

Surface soil staining was observed by City employees in 2009; the source of the stained soil is unknown. Five surface soil samples were obtained by the City and submitted for analysis for gasoline-range hydrocarbons (GRO) by Northwest Method NWTPH-Gx; for gasoline-associated VOCs, specifically benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tert-butyl ether (MTBE), by U.S. Environmental Protection Agency (USEPA) Method 8021B; and for diesel- through lube-oil-range hydrocarbons (DRO and ORO, respectively) by Northwest Method NWTPH-Dx. Laboratory analytical results indicated detectable GRO, DRO, and ORO but at concentrations below their respective MTCA Method A soil cleanup levels. BTEX and MTBE were not detected in any of the samples analyzed.

On October 5, 2010, MFA advanced a soil boring in the area of the City's 2009 investigation where petroleum hydrocarbon detections were greatest to look for other petroleum hydrocarbon constituents, mainly polycyclic aromatic hydrocarbons (PAHs) and PCBs, because the sources of the impacts were unknown. A single subsurface soil sample was obtained from boring GP1 from a depth of 3.5 feet bgs in the area where surface soil staining was observed. This sample was submitted for analysis to Specialty Analytical of Clackamas, Oregon, under standard chain-of-custody procedures, and was analyzed for DRO and ORO by Northwest Method NWTPH-Dx; for PAHs by USEPA 8270C-SIM; and for PCBs by USEPA Method 8082. A copy of the laboratory analytical report can be found in Attachment B. The laboratory analytical results were evaluated according to applicable sections of USEPA procedures and appropriate laboratory and method-specific guidelines. Data-validation procedures were modified, as appropriate, to accommodate quality-control requirements for methods not specifically addressed by the functional guidelines (i.e., NWTPH-Dx method). The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned. Attachment C contains the data validation memorandum.

Soil analytical results indicated detections of DRO (45.5 milligrams per kilogram [mg/kg]) and ORO (115 mg/kg) below the MTCA Method A soil cleanup level for unrestricted land

Steve King, PE August 31, 2011 Page 4

use of 2,000 mg/kg for these constituents. Analytical results indicated no detections of PCBs in the soil sample submitted. Carcinogenic PAHs (cPAHs) were detected in the soil sample submitted for laboratory analysis. In accordance with WAC 173-340-708(8), mixtures of cPAHs are considered single hazardous substances. For these mixtures, toxicity equivalent concentrations (TEC) are calculated, consistent with MTCA. The toxicity of a particular cPAH is expressed relative to the most toxic cPAH (i.e., benzo[a]pyrene). To be conservative, half of method reporting limits were used in the TEC calculation if the congeners were reported as not detected. A cPAH TEC of 14.66 micrograms per kilogram (µg/kg) was calculated using toxicity equivalency factors recommended by Ecology. The calculated TEC was well below the benzo(a)pyrene Method A soil cleanup level of 100 µg/kg.

GEOLOGIC CROSS SECTION

A generalized geologic cross section of interpreted subsurface soil materials at the Property along profile W1-E1 (refer to Figure 4) is presented in Figure 5. Lithology was interpreted from subsurface investigations completed by Budinger & Associates in 1981, a geophysical investigation completed by Northwest Geophysical Associates, Inc. in 2010, and subsurface investigation activities completed by MFA.

Based on the available information, the area interpreted to be part of the former landfill includes northern and eastern portions of the Property (see Figure 1). Depth to shallow bedrock in these areas interpreted as the historical landfill ranges from approximately 25 to more than 50 feet bgs. Throughout much of the Property the landfill debris is covered with silty sandy gravel and sandy silt interpreted to be imported fill material. In general, field observations indicate that there was less noticeable landfill debris in the southern area of the interpreted landfill (PZ2) than in the north (PZ3) (see Attachment A). The overall thickness of landfill debris in these areas of investigation is difficult to ascertain, based on inconstancies of soil conditions, compaction, and poor soil recovery during probe activities.

CONCLUSIONS

Based on groundwater measurements, the direction of shallow groundwater migration at the Property was to the south-southwest during the months of October and November 2010. It is likely that groundwater at the Property during these months was recharged by surface water (i.e., Columbia River). Annual statistical data from the United States Geologic Survey indicate that the months of lowest river flow rates and surface water elevation at this section of the Columbia River are September/October and March/April. Continued potentiometric surface monitoring is recommended to understand seasonal fluctuations in shallow groundwater migration at the Property.

Field screening of soil gas at the Property indicates the presence of VOCs and combustible gases indicative of active biodegradation of refuse in the vicinity of the historical landfill. The

combustible gas levels are at or above the LEL in the area of the landfill. Passive gas venting and active gas monitoring or engineering controls should be considered during design and implementation phases of redevelopment for the Property.

Soil analytical results indicate that the stained subsurface soil observed by the City at the Property is below the MTCA Method A soil cleanup levels for unrestricted land use.

A generalized geologic cross section at the Property indicates varied thickness of landfill debris and overburden material above shallow basalt, which varies in depth.

Sincerely,

Maul Foster & Alongi, Inc.

Alan R. Hughes, LG

Senior Geologist

Kyle Roslund Staff Geologist

Attachments: Limitations

Figure 1—Sample Locations

Figure 2—Potentiometric Surface Map, October 2010 Figure 3—Potentiometric Surface Map, November 2010

Figure 4—Geologic Cross Section Location

Figure 5—Generalized West to East Geologic Cross Section

A—Soil boring logs

B—Laboratory analytical results C—Data validation memorandum The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

The purpose of an environmental assessment is to reasonably evaluate the potential for or actual impact of past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not, therefore, be construed as a guarantee of the absence of such materials on the site.

Environmental conditions that cannot be identified by visual observation may exist at the site. Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminates inside buildings, or contaminate concentrations that are not of current environmental concern may not be reflected in this document.

FIGURES





Figure Monitoring Well & Soil Gas Sample Locations

City of Wenatchee Wenatchee, Washington

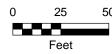
Legend

Monitoring Wells

Soil Gas Samples

Geoprobe Boring

Measured Landfill Area





Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



Figure 2 Potentiometric Surface Map October 2010

City of Wenatchee Wenatchee, Washington

Legend

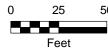
Monitoring Wells

Soil Gas Samples

Geoprobe Boring

48 Groundwater Elevation Contour

Flow Direction





Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information



Figure 3 Potentiometric Surface Map November 2010

City of Wenatchee Wenatchee, Washington

Legend

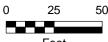
Monitoring Wells

Soil Gas Samples

Geoprobe Boring

48 Groundwater Elevation Contour

Flow Direction

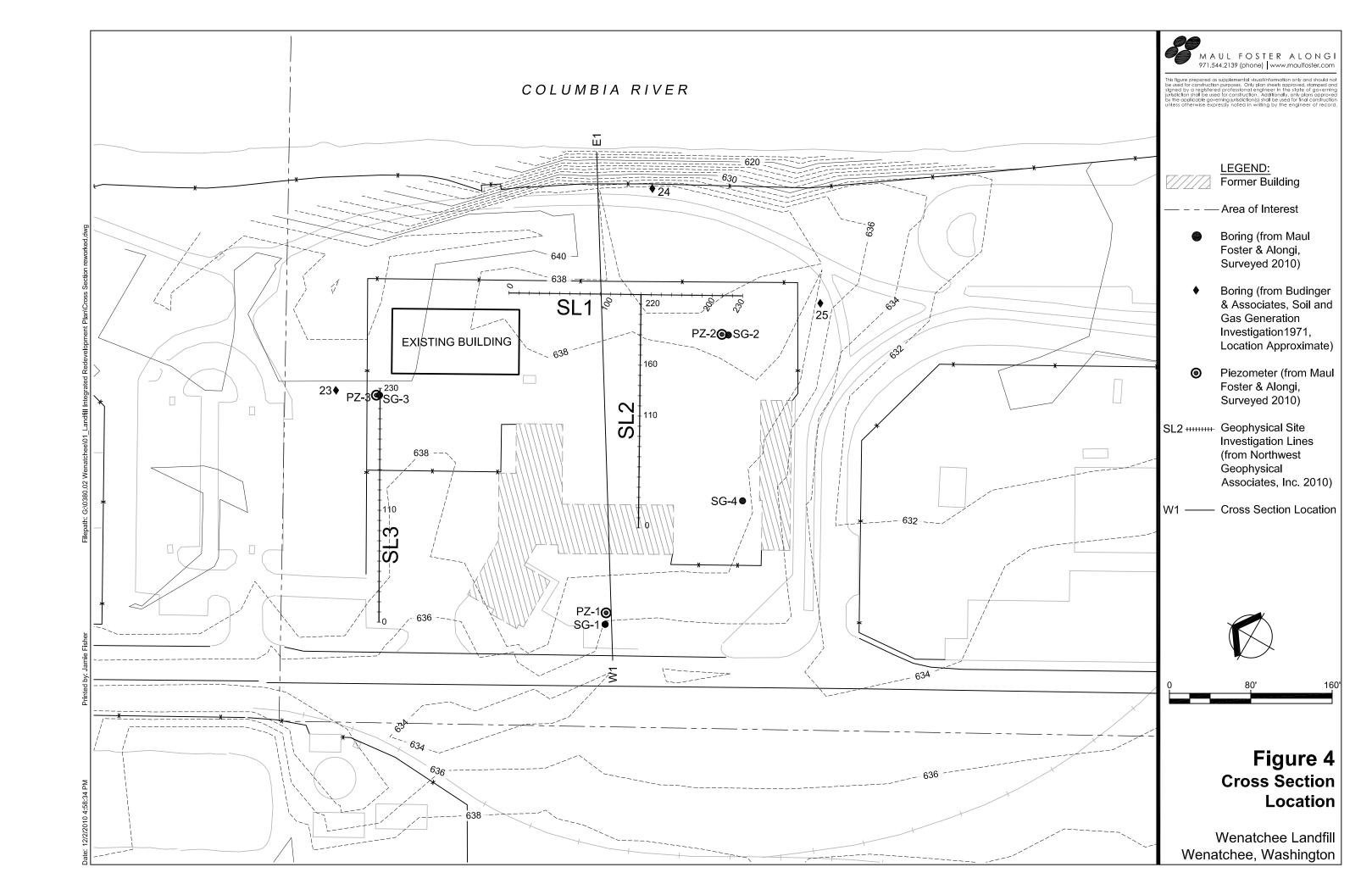


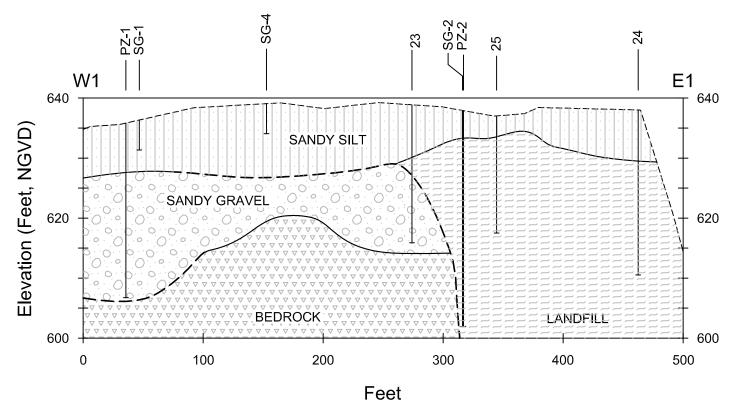


Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information





CROSS SECTION W1-E1
HORIZONTAL SCALE: 1" = 80' VERTICAL SCALE: 1" = 16'
VERTICAL EXAGGERATION: 5

NOTES:

- 1. Lithologic contact dashed where inferred.
- Lithology is based on investigation by MFA in 2010, boring information from Budinger & Associates, and geophysical survey in 2010 by Northwest Geophysical Associates, Inc.

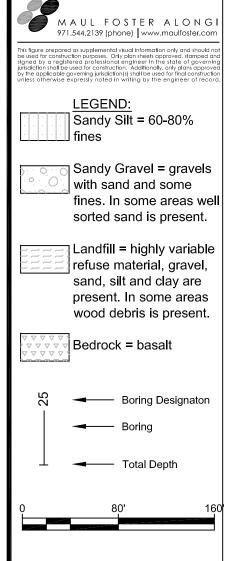


Figure 5 Generalized West to East Geologic Cross Section

Wenatchee Landfill Wenatchee, Washington

ATTACHMENT A

SOIL BORING LOGS



Asu Forget Number Project Number		A1			Borehole Log/Well Constru		
Project Name Project Name Project Name	iaui Foster &	Alongi, Inc					
Mell	Project Location Start/End Date Driller/Equipment Geologist/Engineer	25 North Worth 10/6/2010 to 10/ Frank S/6600 tr Justin Pounds	nee en St (6/2010		TOC Elevation (feet) 641.42 Surface Elevation (feet) 641.6 Northing 156037.3 Easting 1770236. Hole Depth 29.2-feet		
100 GP 1			ample Data				
1 2 3 4 5 5 6 6 7 7 100 GP 2 6 7 100 GP 3 6 7 100 GP 3 6 7 100 GP 3	Details (Leet, BG)	Interval Percent Recovery Collectio		Blows/6" Lithologi			
1		100 GP	1	\$~\J:{\:\f\:\f\:\\$^*			
6.2 to 7.1 feet: SANDY SILT; dark gray; 80% fines; 20% sand, fine dense; moist. 7.1 to 8.0 feet: SILTY SANDY GRAVEL; brown; 10% fines; 30% sand, fine to medium; 60% gravel, rounded, fine to medium; dry. 8.0 to 12.5 feet: SANDY GRAVEL; dark gray; 30% sand, medium to coarse; 70% gravel, medium to coarse; dry. 10 11 12 13 14 15 16 17 18 19 20 31 32 33 34 44 55 46 50 50 50 50 50 50 50 50 50 50 50 50 50	1	100 GP	2		0.6 to 3.0 feet: SANDY SILT; dark gray; 609		
sand, fine to medium; 60% gravel, rounded, fine to medium; dry, 8.0 to 12.5 feet: SANDY GRAVEL; dark gray; 30% sand, medium to coarse; dry. 10					dense; moist.		
100 GP 3					7.1 to 8.0 feet: SILTY SANDY GRAVEL; bro	own; 10% fines; 30% ded. fine to medium:	
12.5 to 14.1 feet: SAND; brown; 100% sand, medium to coarse; dry. 14.1 to 16.0 feet: No Recovery. 15 16 17 18 19 20 100 100 110 110 110 110	9 10 11				dry. 8.0 to 12.5 feet: SANDY GRAVEL; dark gra	y; 30% sand, medium	
14	13	30 37	7			, medium to coarse;	
15 16 17 18 19 20 18 19 100 100 110 110 110 110 110 110 110					dry.		
17 100 GP 5 16.0 to 25.5 feet: SANDY GRAVEL; brownish gray; 40% sand, fine to coarse; 60% gravel, fine to cobbles, dense.	15				14.1 to 16.0 feet: No Recovery.		
18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		100 GP	5	6.000	16.0 to 25.5 feet: SANDY GRAVEL; browning to coarse; 60% gravel, fine to cobbles, o	sh gray; 40% sand, find dense.	
	18						

Refusal: 29.16 feet below ground surface.

NOTES:

Maul	Foster &	Alor	ngi,	Inc.		Project I	Numb	er	Borehole Log/Well Con Well Number	Sheet	
				0380.02.01			PZ2	1 of 2			
Project Name Project Location Start/End Date Driller/Equipment Geologist/Engineer Sample Method City of Wenatche 25 North Worthe 10/6/2010 to 10/6 Frank S/6600 true Justin Pounds Geoprobe							prop	e	TOC Elevation (feet) 641 Surface Elevation (feet) 641 Northing 156 Easting 177 Hole Depth 36. Outer Hole Diam 3.2		
(S)	Well			_s Sa	mple	Data		O	Soil Description		
Depth (feet, BGS)	Details	Interval	Percent Recovery	Collection Method C	Number				- · · · <u> · · · · · · · · · · · ·</u>		
			75	GP	1			F-X 1-1 - 1 - F-X	0.0 to 0.3 feet: ASPHALT; black.		
_ 1									0.3 to 2.5 feet: SILTY SANDY GRAVE sand, fine to medium; 60% graves 2.5 to 3.0 feet: SANDY SILT; dark brodump. 3.0 to 4.0 feet: No Recovery.	l, fine to coarse, angular; dry.	
_ 4					_						
			25	GP	2				4.0 to 5.0 feet: SANDY SILT; dark bro damp.	own; 70% fines; 30% sand;	
_ 5								НПППН	5.0 to 24.0 feet: No Recovery.		
_ 6			o	GP	3						
_ 13		Ī	0	GP	4				@ 12.0 feet: Trash (paper products).		
14											
_ 15											
16											
- '			0	GP	5						
_ 17											
_ 18											
19											
- '											
20											
NOTE	:S:										

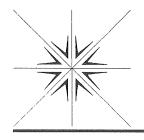
Aoul Footon 9	Alamai In-	G		Borehole Log/Well Construc	
Maul Foster 8	Alongi, Inc.	Project Num 0380.02.0		Well Number PZ3	Sheet 1 of 2
Project Name Project Location Start/End Date Driller/Equipment Geologist/Engineer Sample Method		ee en St		TOC Elevation (feet) Surface Elevation (feet) Northing Easting Hole Depth Outer Hole Diam	642.48 642.4 156344.7 1770318. 32.0-feet 3.25-inch
		ample Data		Soil Description	3.20-111011
Well Details Details	Interval Percent Recovery Collection Method g	Name (Type) Syswold	Lithologic	2011 2000 i pilot.	
	50 GP	1		0.0 to 0.2 feet: ASPHALT: black. 0.2 to 1.8 feet: SANDY GRAVEL, dark gray; medium to coarse, angular; 60% gravel, medium; dry.	10% fines; 30% sand, rounded, fine to
2				1.8 to 2.3 feet: GRAVELLY SILT; dark brown gravel, rounded; dry. 2.3 to 4.0 feet: No Recovery.	; 75% fines; 25%
4	20 GP	2		4.0 to 4.8 feet: SILTY SANDY GRAVEL; dark	k brown; with organics
5				(wood); 20% fines; 20% sand, fine to me 4.8 to 12.0 feet: No Recovery.	dium; 60% gravel; dry ———————
6				4.0 to 12.0 loca. No Nocovery.	
7					
8	O GP	3			
9					
10					
12	60 GP	4		12.0 to 13.8 feet: SILTY SANDY GRAVEL; o	ark grav: fill: drv
13				TELL TO LOCAL SIZE F SHIPP FOR TVELL, U	g. wy, mi, diy.
14				13.8 to 14.4 feet: WOODY DEBRIS; black; d	 amp.
15			757)7	14.4 to 16.0 feet: No recovery.	
16	0.15 GP	5		16.0 to 16.4 feet: FILL. dark gray.	
17			KET I	16.4 to 16.5 feet: RUBBER; black. 16.5 to 16.6 feet: WOODY DEBRIS; moist.	
				16.6 to 20.0 feet: No Recovery.	
18					
19					
20					
NOTES:					
∇ Observed Wa	ter Level during di	illing.			

Total depth: 32.0 feet below ground surface.

ATTACHMENT B

LABORATORY ANALYTICAL RESULTS





Specialty Analytical

11711 SE Capps Road Clackamas, OR 97015 (503) 607-1331 Fax (503) 607-1336

October 13, 2010

Alan Hughes Maul, Foster & Alongi 7223 NE Hazel Dell Avenue Suite B Vancouver, WA 98665

TEL: (360) 694-2691 FAX: (360) 906-1958

RE: City of Wenatchee / 0380.02.01

Dear Alan Hughes:

Order No.: 1010052

Specialty Analytical received 1 sample on 10/7/2010 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Project Manager

Technical Review

Specialty Analytical

CLIENT: Maul, Foster & Alongi Lab Order: 1010052

Date: 13-Oct-10

Project: City of Wenatchee / 0380.02.01

Lab ID: 1010052-01 **Collection Date:** 10/5/2010 3:00:00 PM

Client Sample ID: GP1-S-3.0 Matrix: SOIL

Client Sample ID: GP1-S-3.0			Matr	ix: SOIL	
Analyses	Result	Limit Qua	l Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX			Analyst: jrp
Diesel	45.5	17.2	mg/Kg-dry	1	10/8/2010
Lube Oil	115	57.3	mg/Kg-dry	1	10/8/2010
Surr: o-Terphenyl	123	50-150	%REC	1	10/8/2010
PAH'S BY GC/MS-OARSIM (8270C)		8270SIM			Analyst: bda
Acenaphthene	ND	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Acenaphthylene	ND	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Anthracene	22.1	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Benz(a)anthracene	14.5	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Benzo(a)pyrene	11.5	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Benzo(b)fluoranthene	ND	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Benzo(g,h,i)perylene	13.0	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Benzo(k)fluoranthene	ND	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Chrysene	18.3	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Dibenz(a,h)anthracene	ND	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Fluoranthene	9.93	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Fluorene	8.40	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Indeno(1,2,3-cd)pyrene	ND	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Naphthalene	ND	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Phenanthrene	77.9	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Pyrene	59.6	7.64	μg/Kg-dry	1	10/13/2010 9:40:00 AM
Surr: 2-Fluorobiphenyl	56.9	42.6-128	%REC	1	10/13/2010 9:40:00 AM
Surr: Nitrobenzene-d5	39.4	21.7-155	%REC	1	10/13/2010 9:40:00 AM
Surr: p-Terphenyl-d14	84.3	44.9-155	%REC	1	10/13/2010 9:40:00 AM
PCB'S IN SOIL		SW8082			Analyst: jrp
Aroclor 1016	ND	1.53	μg/Kg-dry	1	10/11/2010
Aroclor 1221	ND	1.53	μg/Kg-dry	1	10/11/2010
Aroclor 1232	ND	1.53	μg/Kg-dry	1	10/11/2010
Aroclor 1242	ND	1.53	μg/Kg-dry	1	10/11/2010
Aroclor 1248	ND	1.53	μg/Kg-dry	1	10/11/2010
Aroclor 1254	ND	1.53	μg/Kg-dry	1	10/11/2010
Aroclor 1260	ND	1.53	μg/Kg-dry	1	10/11/2010
Aroclor 1262	ND	1.53	μg/Kg-dry	1	10/11/2010
Aroclor 1268	ND	1.53	μg/Kg-dry	1	10/11/2010
Surr: Decachlorobiphenyl	103	56.5-130	%REC	1	10/11/2010

Specialty Analytical Date: 13-Oct-10

CLIENT: Maul, Foster & Alongi

Work Order: 1010052

Project: City of Wenatchee / 0380.02.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-26765	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg		Prep Date:	10/8/2010	Run ID: GCK_101011A	
Client ID: ZZZZZ	Batch ID: 26765	TestNo: SW8082			Analysis Date:	10/11/2010	SeqNo: 702141	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Aroclor 1016	ND	1.33						
Aroclor 1221	ND	1.33						
Aroclor 1232	ND	1.33						
Aroclor 1242	ND	1.33						
Aroclor 1248	ND	1.33						
Aroclor 1254	ND	1.33						
Aroclor 1260	ND	1.33						
Aroclor 1262	ND	1.33						
Aroclor 1268	ND	1.33						
Surr: Decachlorobiphenyl	12510	0 13330	0	93.8	56.5	130 0	0	
Sample ID: LCS-26765	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg		Prep Date:	10/8/2010	Run ID: GCK_101011A	
Client ID: ZZZZZ	Batch ID: 26765	TestNo: SW8082			Analysis Date:	10/11/2010	SeqNo: 702142	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Aroclor 1016/1260	116	1.33 133.3	0	87	44.3	137 0	0	
Sample ID: 1010052-01AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-c	lry	Prep Date:	10/8/2010	Run ID: GCK_101011A	
Client ID: GP1-S-3.0	Batch ID: 26765	TestNo: SW8082			Analysis Date:	10/11/2010	SeqNo: 702143	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Aroclor 1016/1260	149.7	1.53 152.7	0	98	56.6	123 0	0	
Sample ID: 1010052-01AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-c	lry	Prep Date:	10/8/2010	Run ID: GCK_101011A	·
Client ID: GP1-S-3.0	Batch ID: 26765	TestNo: SW8082			Analysis Date:	10/11/2010	SeqNo: 702144	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit F	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Aroclor 1016/1260	152.7	1.53 152.7	0	100	56.6	123 149.7	2.02 20	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

Work Order: 1010052

Project: City of Wenatchee / 0380.02.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S Units: µg/Kg	Prep Date:	Run ID: GCK_101011A
Client ID: ZZZZZ	Batch ID: 26765	TestNo: SW8082	Analysis Date: 10/11/2010	SeqNo: 702140
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Aroclor 1016/1260	124	1.33 133.3 0	93 85 115 0	0
Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S Units: µg/Kg	Prep Date:	Run ID: GCK_101011A
Client ID: ZZZZZ	Batch ID: 26765	TestNo: SW8082	Analysis Date: 10/11/2010	SeqNo: 702146
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Aroclor 1016/1260	125.3	1.33 133.3 0	94 85 115 0	0

Work Order: 1010052

Project: City of Wenatchee / 0380.02.01

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: MB-26762	SampType: MBLK	TestCode: NWTPHDX_S Units: mg/Kg	Prep Date: 10/8/2	010 Run I	ID: GC-M_101008A
Client ID: ZZZZZ	Batch ID: 26762	TestNo: NWTPH-Dx	Analysis Date: 10/8/2	010 SeqN	No: 701939
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %	%RPD RPDLimit Qual
Diesel	ND	15.0			
Lube Oil	ND	50.0			
Surr: o-Terphenyl	37.12	0 33.33 0	111 50 150	0	0
Sample ID: LCS-26762	SampType: LCS	TestCode: NWTPHDX_S Units: mg/Kg	Prep Date: 10/8/2	010 Run I	ID: GC-M_101008A
Client ID: ZZZZZ	Batch ID: 26762	TestNo: NWTPH-Dx	Analysis Date: 10/8/2	010 SeqN	No: 701940
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val 9	%RPD RPDLimit Qual
Diesel	181.9	15.0 166.6 0	109 76.3 125	0	0
Lube Oil	160.2	50.0 166.6 0	96.1 69.9 127	0	0
Sample ID: 1010050-02ADUP	SampType: DUP	TestCode: NWTPHDX_S Units: mg/Kg-	lry Prep Date: 10/8/2	010 Run I	ID: GC-M_101008A
Client ID: ZZZZZ	Batch ID: 26762	TestNo: NWTPH-Dx	Analysis Date: 10/8/2	010 SeqN	lo: 701942
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %	%RPD RPDLimit Qual
Diesel	101.9	27.8 0 0	0 0 0	105.1	3.11 20 A1
Lube Oil	444.3	92.8 0 0	0 0 0	457.8	3.00 20 A2
Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg	Prep Date:	Run I	ID: GC-M_101008A
Client ID: ZZZZZ	Batch ID: 26762	TestNo: NWTPH-Dx	Analysis Date: 10/8/2	010 SeqN	No: 701938
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %	%RPD RPDLimit Qual
Diesel	1127	15.0 1019 0	111 85 115	0	0
Lube Oil	491.7	50.0 514.9 0	95.5 85 115	0	0
Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg	Prep Date:	Run I	ID: GC-M_101008A
Client ID: ZZZZZ	Batch ID: 26762	TestNo: NWTPH-Dx	Analysis Date: 10/8/2	010 SeqN	No: 701944
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %	%RPD RPDLimit Qual
Diesel	1500	15.0 1359 0	110 85 115	0	0

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R - RPD outside accepted recovery limits

Work Order: 1010052

Project: City of Wenatchee / 0380.02.01 **TestCode: NWTPHDX_S**

Sample ID: CCV	SampType: CCV	TestCod	de: NWTPHD)	(_S Units: mg/Kg		Prep Dat	te:		Run ID: GC	-M_101008A	
Client ID: ZZZZZ	Batch ID: 26762	TestN	No: NWTPH-D	x		Analysis Dat	te: 10/8/20	10	SeqNo: 70 1	1944	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil	657.6	50.0	686.6	0	95.8	85	115	0	0		

ANALYTICAL QC SUMMARY REPORT

Work Order: 1010052

Project: City of Wenatchee / 0380.02.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-26766	SampType:	MBLK	TestCod	de: PAHLL_S	Units: µg/Kg		Prep Date	e: 10/8/2 0	010	Run ID: 597	3G_101013 <i>A</i>	A
Client ID: ZZZZZ	Batch ID:	26766	TestN	lo: 8270SIM			Analysis Date	e: 10/13/2	2010	SeqNo: 702	496	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene		ND	6.67									
Acenaphthylene		ND	6.67									
Anthracene		0.6667	6.67									J
Benz(a)anthracene		1.333	6.67									J
Benzo(a)pyrene		0.6667	6.67									J
Benzo(b)fluoranthene		0.6667	6.67									J
Benzo(g,h,i)perylene		2.667	6.67									J
Benzo(k)fluoranthene		0.6667	6.67									J
Chrysene		0.6667	6.67									J
Dibenz(a,h)anthracene		2	6.67									J
Fluoranthene		0.6667	6.67									J
Fluorene		ND	6.67									
ndeno(1,2,3-cd)pyrene		2	6.67									J
Naphthalene		2	6.67									J
Phenanthrene		1.333	6.67									J
Pyrene		0.6667	6.67									J
Surr: 2-Fluorobiphenyl		3553	0	6667	0	53.3	42.6	128	0	0		
Surr: Nitrobenzene-d5		3094	0	6667	0	46.4	21.7	155	0	0		
Surr: p-Terphenyl-d14		5837	0	6667	0	87.6	44.9	155	0	0		
Sample ID: LCS-26766	SampType:	LCS	TestCoo	de: PAHLL_S	Units: µg/Kg		Prep Date	e: 10/8/2 0)10	Run ID: 597	3G_101013 <i>A</i>	١
Client ID: ZZZZZ	Batch ID:	26766	TestN	lo: 8270SIM			Analysis Date	e: 10/13/2	2010	SeqNo: 702	498	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Acenaphthene		214.7	6.67	333.3	0	64.4	39.6	107	0	0		
Benzo(g,h,i)perylene		218.7	6.67	333.3	0	65.6	49.7	135	0	0		
Chrysene		278	6.67	333.3	0	83.4	57.1	130	0	0		
Naphthalene		222.7	6.67	333.3	0	66.8	29.1	109	0	0		
Phenanthrene		218.7	6.67	333.3	0	65.6	48.4	115	0	0		
Pyrene		278	6.67	333.3	0	83.4	47.2	134	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit

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Work Order: 1010052

Project: City of Wenatchee / 0380.02.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: 1010052-01AMS	SampType: MS	TestCod	de: PAHLL_S	Units: µg/Kg	j-dry	Prep Dat	e: 10/8/2 0	110	Run ID: 59 7	73G_101013 <i>i</i>	4
Client ID: GP1-S-3.0	Batch ID: 26766	TestN	No: 8270SIM			Analysis Dat	e: 10/13/2	2010	SeqNo: 702	2500	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	337.5	7.64	381.8	5.346	87	33.7	111	0	0		
Benzo(g,h,i)perylene	290.2	7.64	381.8	12.98	72.6	15	128	0	0		
Chrysene	342.9	7.64	381.8	18.33	85	37.5	125	0	0		
Naphthalene	272.6	7.64	381.8	0	71.4	27.7	108	0	0		
Phenanthrene	399.4	7.64	381.8	77.89	84.2	20.2	139	0	0		
Pyrene	414.7	7.64	381.8	59.56	93	26.8	142	0	0		
Sample ID: 1010052-01AMSD	SampType: MSD	TestCod	de: PAHLL_S	Units: μg/Κς	j-dry	Prep Dat	e: 10/8/2 0)10	Run ID: 59 7	73G_101013 <i>i</i>	4
Client ID: GP1-S-3.0	Batch ID: 26766	Test	No: 8270SIM			Analysis Dat	e: 10/13/2	2010	SeqNo: 702	2499	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	287.9	7.64	381.8	5.346	74	33.7	111	337.5	15.9	20	
Benzo(g,h,i)perylene	264.2	7.64	381.8	12.98	65.8	15	128	290.2	9.37	20	
Chrysene	294.8	7.64	381.8	18.33	72.4	37.5	125	342.9	15.1	20	
Naphthalene	225.3	7.64	381.8	0	59	27.7	108	272.6	19.0	20	
Phenanthrene	377.2	7.64	381.8	77.89	78.4	20.2	139	399.4	5.70	20	
Pyrene	398.6	7.64	381.8	59.56	88.8	26.8	142	414.7	3.94	20	
Sample ID: CCV-26766	SampType: CCV	TestCod	de: PAHLL_S	Units: μg/Κο	1	Prep Dat	e:		Run ID: 59 7	73G_101013 <i>i</i>	4
Client ID: ZZZZZ	Batch ID: 26766	TestN	No: 8270SIM			Analysis Dat	e: 10/13/2	2010	SeqNo: 702	2495	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	69.33	6.67	66.67	0	104	70	130	0	0		
Acenaphthylene	76	6.67	66.67	0	114	70	130	0	0		
Anthracene	74	6.67	66.67	0	111	70	130	0	0		
Benz(a)anthracene	54.67	6.67	66.67	0	82	70	130	0	0		
Benzo(a)pyrene	57.33	6.67	66.67	0	86	70	130	0	0		
Benzo(b)fluoranthene	53.33	6.67	66.67	0	80	70	130	0	0		
Benzo(g,h,i)perylene	57.33	6.67	66.67	0	86	70	130	0	0		
Benzo(k)fluoranthene	70	6.67	66.67	0	105	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits

Work Order: 1010052

Project: City of Wenatchee / 0380.02.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-26766	SampType: CCV	TestCod	de: PAHLL_S	Units: µg/Kg		Prep Dat	e:		Run ID: 597	'3G_101013 <i>A</i>	4
Client ID: ZZZZZ	Batch ID: 26766	TestN	lo: 8270SIM			Analysis Dat	e: 10/13/2	010	SeqNo: 702	2495	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	58.67	6.67	66.67	0	88	70	130	0	0		
Fluoranthene	66	6.67	66.67	0	99	70	130	0	0		
Fluorene	67.33	6.67	66.67	0	101	70	130	0	0		
Indeno(1,2,3-cd)pyrene	56	6.67	66.67	0	84	70	130	0	0		
Naphthalene	67.33	6.67	66.67	0	101	70	130	0	0		
Phenanthrene	64.67	6.67	66.67	0	97	70	130	0	0		
Pyrene	69.33	6.67	66.67	0	104	70	130	0	0		

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page of

Company MEA Company MEA Address 2001 N.W. (974 Aug. Phone. Phone. Project No. C350 C2.01 Project Name C.N. of Work. Project Site Location OR WAX Other Invoice To MEA	Analyses Lab Job No. Oll Old Old Old Old Old Old Old Old Old	A X X X X X X X X X X X X X X X X X X X	- pending results		Time Received By: WULL PADICA Relinquished By: Date Scott Company:	Received For Lab By: (ALMAL) PAIDOLS
Specialty Analytical 11711 SE Capps Road Clackamas, OR 97015 Phone: 503-607-1331 Fax: 503-607-1336 Collected By: Signature	Signature	Date Time Sample I.D.			Relinquished By: // Date Tim Company: // Nying 13cc	Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)

ATTACHMENT C

DATA VALIDATION MEMORANDUM



DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 0380.02.01 | DECEMBER 1, 2010 | CITY OF WENATCHEE DEPARTMENT OF PUBLIC WORKS

This report reviews the analytical results for samples collected by the Maul Foster & Alongi, Inc. project team at the site at 25 North Worthen Street, Wenatchee, Washington. The samples were collected in October 2010.

Specialty Analytical (SA), in Clackamas, Oregon, performed the analyses. SA report number 1010052 was reviewed. The analyses performed are listed below.

Analysis	Reference
Polycyclic aromatic hydrocarbons	USEPA 8270SIM
Polychlorinated biphenyls	USEPA 8082
Diesel and lube oil	NWTPH-Dx

NWTPH = Northwest Total Petroleum Hydrocarbons. SIM = selective ion monitoring. USEPA = U.S. Environmental Protection Agency.

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2004, 2008), and appropriate laboratory and method-specific guidelines (SA, 2010; USEPA, 1986).

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BI ANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. No target analytes were detected above the reporting limits (RLs) in the method blanks.

Trip Blanks

Trip blanks were not submitted for this sampling event.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples. All surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

MS/MSD results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. All recoveries were within acceptance limits for percent recovery and relative percent differences (RPDs).

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. All RPDs were within acceptance limits.

LABORATORY CONTROL SAMPLE RESULTS

An LCS is spiked with target analytes to provide information on laboratory accuracy. The LCS samples were extracted and analyzed at the required frequency. All LCS analytes were within acceptance limits for percent recovery.

REPORTING LIMITS

SA used routine RLs for non-detect results.

DATA PACKAGE

The data package was reviewed for transcription errors, omissions, and anomalies. None were found.

- SA. 2010. Quality assurance manual. Specialty Analytical, Clackamas, Oregon.
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 6, February 2007).
- USEPA. 2004. USEPA contract laboratory program, national functional guidelines for inorganics data review. EPA 540/R-94/013. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. October.
- USEPA. 2008. USEPA contract laboratory program, national functional guidelines for organics data review. EPA 540/R-08/01. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. June.

APPENDIX C

RESUMES





ahughes@maulfoster.com | 360.433.0217 | www.maulfoster.com

Alan R. Hughes, RG, LG Senior Geologist

QUALIFICATIONS

BS, Geology: University of Washington

LICENSES/REGISTRATION

Registered Geologist: Oregon, No. G1928 Licensed Geologist: Washington, No. 2498

CERTIFICATIONS

Hazardous Material Incident Response, 40-Hour Hazardous Waste Management and Supervision Lockout/Tagout and Confined Space Recognition First Aid/CPR Training



SKILLS

Mr. Hughes has 11 years of experience in environmental consulting. He is recognized for his ability to successfully execute efficient and effective environmental investigations at a range of complex industrial and urban sites. He has conducted investigations and developed feasibility studies and cleanup action plans at wood-treating facilities, pesticide sites, chlorinated-solvent sites, aggregate mining sites, solid waste sites, refineries, petroleum-contaminated sites, dry cleaning facilities, and other hazardous waste sites. Mr. Hughes currently is the project manager for a large, complex, multimedia investigation and thermal remediation project in southwest Washington. He has extensive knowledge of field data collection techniques for soil, groundwater, and sediment. He has in-depth knowledge of Washington and Oregon environmental regulations. Mr. Hughes is also an expert in the collection and evaluation of dioxin data. He prepares scopes of work and cost estimates for small and large investigations.

PROJECT EXAMPLES

Environmental Site Investigations

Former Wood-Treating Facility, Ridgefield, WA: For an emergency action, Mr. Hughes assisted with a pumping test and evaluated the data for design of a steam-enhanced remediation system. Mr. Hughes assisted with the installation of groundwater extraction and injection wells for steam-injection remediation, and installed monitoring wells to monitor the effectiveness of the remediation. Mr. Hughes has collected groundwater samples from the steam-enhanced remediation treatment system and has provided training in groundwater and stormwater sampling for the client's staff. He has also created site-specific health and safety plans, including procedures for drilling in high-temperature materials (greater than 212°F).

Former Wood-Treating Facility, Ridgefield, WA: Mr. Hughes managed a remedial investigation and feasibility study at a former wood-treating site that is being redeveloped and brought into viable economic reuse. The assessment included upland soils, off-site soils, groundwater, and sediments in adjacent water bodies. Mr. Hughes logged exploratory borings; collected reconnaissance soil, groundwater, and sediment samples; completed test pits; and installed groundwater monitoring and remediation wells. Chemicals of interest included pentachlorophenol; polycyclic aromatic hydrocarbons;

volatile organic compounds; and arsenic, chromium, and copper; and dioxin/furans. He conducted hydraulic conductivity tests using data loggers and slugs. Mr. Hughes has performed fate-and-transport groundwater modeling using Dominico, BIOCHLOR, and BIOSCREEN models for the site. He has also assisted in preparing numerous documents, including remedial investigation, risk assessment, and feasibility study reports.

Industrial Property, Ridgefield, WA: Mr. Hughes prepared a sampling plan to determine the usability of fill material that was to be generated from construction of a new interchange along Interstate 5 on this industrial property. The sampling plan was approved by the Washington State Department of Ecology.

Former Wood-Treating Facility, Sandpoint, ID: For a remedial investigation and feasibility study, Mr. Hughes conducted different phases of investigation, including advancing exploratory borings, using direct-push drilling techniques to assess the horizontal and vertical extents of contamination and free product in subsurface soils and in shallow and deeper groundwater; installing monitoring wells; conducting hydraulic conductivity tests (slug tests) in monitoring wells to assess the hydraulic properties of the water-bearing zones; and conducting beneficial land and water use evaluations. Mr. Hughes prepared cost estimates for various remedial alternatives for soil and groundwater. Chemicals of interest included pentachlorophenol and creosote constituents.

Commercial Property, Milwaukie, OR: For a remedial investigation and feasibility study, Mr. Hughes logged exploratory borings and collected reconnaissance soil and groundwater samples at and near this site, which was impacted with chlorinated solvents. He installed monitoring wells. The drilling was performed using cable tool, hollow-stem auger, GeoprobeTM, and sonic drilling techniques. Mr. Hughes also oversaw test-pit excavations for the exploration of geophysical anomalies.

High-Tech Manufacturing Facility, Beaverton, OR: For a Resource Conservation and Recovery Act groundwater corrective action plan, Mr. Hughes logged exploratory borings and collected reconnaissance soil and groundwater samples, abandoned groundwater extraction wells, and installed replacement extraction wells. He participated in semiannual groundwater sampling activities. Mr. Hughes also conducted beneficial water and land use evaluations.

Truck-Manufacturing Facility, Portland, OR: For a remedial investigation and feasibility study, Mr. Hughes oversaw soil and groundwater investigations at two industrial facilities adjacent to the Portland Harbor Superfund site. The investigations included focused reconnaissance drilling and sampling. Mr. Hughes oversaw a focused reconnaissance soil removal action, including geophysical investigations and the removal of buried waste. After the investigations and removals were completed, Mr. Hughes assisted with report preparation. He also created site-specific health and safety plans. Mr. Hughes also evaluated beneficial water and land use near the two facilities.

Waterfront Brownfield Site, Portland, OR: For a remedial investigation and feasibility study at this former Oregon Department of Environmental Quality orphan site, Mr. Hughes logged direct-push borings and collected soil samples from over 150 borings at this waterfront brownfield site, which is adjacent to the Portland Harbor Superfund site and was recently purchased by the University of Portland. Chemicals of interest included metals, polychlorinated biphenyls, volatile organic compounds, and petroleum hydrocarbons. Mr. Hughes also completed a beneficial water and land use evaluation for the site.

Barge-Construction and Former Ship Dismantling Property, Portland, OR: For a remedial investigation and feasibility study, Mr. Hughes sampled groundwater, logged reconnaissance direct-push borings, completed beneficial water and land use evaluations, and manually collected surface sediment samples along the bank of the Willamette River. Chemicals of interest included polychlorinated biphenyls, metals, and polycyclic aromatic hydrocarbons.

Former Manufactured Gas Plant and Petroleum Terminal, Astoria, OR: For a remedial investigation and feasibility study, Mr. Hughes conducted reconnaissance soil and groundwater sampling

and the installation of monitoring wells, using sonic drilling techniques. Mr. Hughes also conducted a riverbank survey for possible product seep areas along the Columbia River. He has participated in semiannual groundwater sampling activities and nonaqueous-phase liquid monitoring and removal activities. He also created a site-specific health and safety plan. Chemicals of interest included polycyclic aromatic hydrocarbons, benzene, cyanide, and petroleum hydrocarbons.

Sediment Characterization, WA: To assess chemical and physical characteristics of sediment, Mr. Hughes managed an over-water investigation at this riverfront site. The investigation was conducted using vibracore sampling techniques. The sediment parameters investigated included semivolatile organic compounds, polychlorinated biphenyls, pesticides, metals, total organic carbon, and grain size. The results of the sampling were compared to the Sediment Evaluation Framework, a guidance document prepared by multiple state and federal agencies. Mr. Hughes also created a site-specific health and safety plan.

Service Station and Mini-Mart, Cathlamet, WA: For the Washington State Department of Ecology's Voluntary Cleanup Program, Mr. Hughes evaluated releases from former underground petroleum hydrocarbon storage tanks by conducting soil sampling, using hand-auger and direct-push techniques to evaluate the extent of petroleum hydrocarbons in soil; negotiated a scope of work for a No Further Action determination with Ecology; performed a limited water use survey; and prepared a risk-based closure report for submittal to Ecology's VCP. The site received an NFA determination.

Former Industrial Property, Corvallis, OR: For the Oregon Department of Environmental Quality's Independent Cleanup Pathway, Mr. Hughes used direct-push drilling techniques to conduct on- and offsite reconnaissance investigations to characterize soil and groundwater. He also created a site-specific health and safety plan. He oversaw a soil removal action and prepared a risk-based cleanup report with site-specific cleanup levels for petroleum hydrocarbons. The soil removal action and risk-based cleanup report allowed rezoning and development of the property as urban residential. The project included Phase I and II environmental site assessments, a soil removal action, a preliminary beneficial use determination for water, and a risk assessment. The site received a No Further Action determination.

Agricultural Helicopter Services, Napavine, WA: Mr. Hughes worked with the Washington State Department of Ecology's spill response team to characterize a release of petroleum hydrocarbons from an aboveground storage tank and to oversee cleanup operations. Based on this work, the client received a letter indicating that no further actions were required.

Industrial Waterfront Property, Portland, OR: To address environmental conditions as part of an expanded preliminary assessment requested by the Oregon Department of Environmental Quality, Mr. Hughes managed an investigation to characterize soil and groundwater under the site. The nature and extent of sandblast grit used as fill were evaluated. Monitoring wells were installed, using direct-push techniques, to evaluate potential impacts to groundwater from metals in the sandblast grit that could migrate to the Columbia Slough. Mr. Hughes also created a site-specific health and safety plan.

Undeveloped Agricultural Property, Troutdale, OR: To facilitate a possible property transfer, Mr. Hughes managed a site investigation to assess possible petroleum hydrocarbon and pesticide impacts in soil and groundwater at this property. Reconnaissance sampling was completed using hand-auger and direct-push drilling techniques. Additionally, Mr. Hughes researched the property's historical use to focus the site investigation.

Forest Products Facility, Chehalis, WA: To assess possible petroleum hydrocarbon impacts to the property from a tenant's operations, Mr. Hughes oversaw test-pitting activities and collected soil samples. The surface condition of the site was also assessed for damage (e.g., damaged or missing asphalt, thickness of duff [woody debris]).

Chromium-Plating Facility, Portland, OR: Mr. Hughes served as the project geologist for a remedial investigation and feasibility study at this facility, which is adjacent to the Columbia Slough. The RI

included an evaluation of environmental impacts caused by chrome-plating and historical landfilling activities at the site. Mr. Hughes coordinated and completed soil and groundwater sampling outside the facility, using direct-push and hollow-stem auger drilling techniques. Installation of groundwater monitoring wells also was completed outside the facility to evaluate possible impacts from historical fill and to assess the groundwater gradient under the site near the slough. Mr. Hughes also created a site-specific health and safety plan.

Former Chrome-Plating Facility, Seattle, WA: Mr. Hughes was the project geologist for a remedial investigation and feasibility study for this site adjacent to the Duwamish River and in the Duwamish River Valley industrial area. The RI included oversight of exploratory drilling and soil and groundwater sampling; installation and quarterly sampling of groundwater monitoring wells; subslab soil vapor sampling; ambient air sampling; performance of a beneficial water use survey; and groundwater fate-and-transport modeling using the U.S. Environmental Protection Agency's BICHLOR program. Mr. Hughes also created a site-specific health and safety plan.

Industrial/Commercial Property, Woodland, WA: To facilitate a property transfer, Mr. Hughes assisted in completing Phase I and II environmental site assessments to evaluate recognized environmental conditions. Mr. Hughes oversaw exploratory drilling using direct-push techniques to assess soil and groundwater. The contaminants of interest were petroleum hydrocarbons.

Former Bulk-Fuel Plant and Former Service Station, Astoria, OR: For a remedial investigation and feasibility study, Mr. Hughes was the project geologist investigating impacts to soil and groundwater from past operations, using direct-push and hand-auger drilling techniques. The site was part of a multiple-party unilateral order from the Oregon Department of Environmental Quality. Mr. Hughes assisted in reviewing documents produced as part of the order.

Wetland, Portland, OR: Mr. Hughes assessed groundwater levels and soil conditions to facilitate the enhancement of a wetland in northwest Portland. The project consisted of installing piezometers and monitoring water levels in the piezometers and in surface-water bodies in and adjacent to the wetland.

Former Fire Station, Vancouver, WA: Mr. Hughes managed a Phase II environmental site assessment to evaluate possible recognized environmental conditions identified during the Phase I ESA. Soil near the former location of underground petroleum hydrocarbon storage tanks was characterized using direct-push drilling techniques. This work enabled the client to obtain financing and to develop the property for commercial uses.

Former Agricultural Property, Battle Ground, WA: Mr. Hughes managed a Phase II environmental site assessment to evaluate baseline concentrations in soil before site development. Specifically, soil near proposed service station dispensers was characterized using direct-push drilling techniques.

Industrial Property, Vancouver, WA: Mr. Hughes managed a Phase II environmental site assessment to evaluate recognized environmental conditions identified during the Phase I ESA. A geophysical survey was conducted on the property to identify possible buried metal objects and to focus reconnaissance sampling. Possible soil and groundwater impacts were evaluated using direct-push drilling techniques. Chemicals of interest included petroleum hydrocarbons and volatile organic compounds.

Sand and Gravel Mine and Asphalt Plant, Salem, OR: Mr. Hughes conducted reconnaissance soil and groundwater sampling as part of a property transfer. Working with the prospective purchaser, Mr. Hughes developed a monitoring and soil removal plan for impacted parts of the property and associated cost estimates to facilitate the sale of the property.

Fiberglass Boat Manufacturer, Salem, OR: Mr. Hughes conducted Phase I and II environmental site assessments on behalf of the owner to investigate possible releases of volatile organic compounds to soil and groundwater from the facility's operations. The Phase II ESA included advancing six borings, using direct-push techniques to collect soil and groundwater samples. Mr. Hughes also created a site-specific health and safety plan.

Agricultural Property, Turner, OR: Mr. Hughes conducted a Phase I environmental site assessment in accordance with the requirements of the American Society for Testing and Materials Standard Practice for Environmental Site Assessments. Mr. Hughes completed this project on very short notice and with close coordination with the client.

Industrial Property, Toledo, OR: Mr. Hughes managed a sediment investigation designed to characterize sediments to support proposed dredging activities. Mr. Hughes prepared a sampling and analysis plan, oversaw the field investigation, completed the report, and negotiated with state and federal agencies. Chemicals of interest included polycyclic aromatic hydrocarbons, metals, and dioxins/furans.

Industrial Property, Toledo, OR: Mr. Hughes managed Phase I and II environmental site assessments of a waterfront property prior to purchase. The Phase II ESA included upland and in-water investigations. Chemicals of interest included polycyclic aromatic hydrocarbons, metals, organotins, and dioxins/furans.

Industrial Property, Vancouver, WA: Mr. Hughes managed the independent cleanup of this industrial facility through the Washington State Department of Ecology's Voluntary Cleanup Program. The project included assessing the nature and extent of soil and groundwater impacts, completing a soil interim action, and conducting performance groundwater monitoring. The assessment included calculating site-specific cleanup levels for soil and groundwater. Chemicals of interest included petroleum hydrocarbons and associated constituents.

Commercial Property, Ridgefield, WA: Mr. Hughes oversaw remedial investigation and feasibility study activities for a former dry cleaner site. To date, activities have included negotiating an Agreed Order with the Washington State Department of Ecology and preparation of an RI work plan. The contaminant of interest was tetrachloroethene.

Agricultural Property, Portland, OR: Mr. Hughes managed Phase I and II environmental site assessments and a soil removal action. The Phase II ESA included assessments of pesticides and petroleum hydrocarbons in surface and subsurface soils. Mr. Hughes also oversaw the removal of impacted soils prior to purchase of the property.

Industrial Property, Madras, OR: Mr. Hughes managed a Phase I environmental site assessment of an industrial property used as a machine shop and wrecking yard.

Industrial Property, Butte, UT: Mr. Hughes managed Phase I and II environmental site assessments. The Phase I ESA was for a service station and auto workshop within the Butte/Silver Bow Superfund site. The Phase II ESA included assessing soil for petroleum hydrocarbons and constituents and metals.

Commercial Property, Warrenton, OR: Mr. Hughes managed a Phase I environmental site assessment for a residential property. The potential purchaser wanted to use the property for commercial applications.

Commercial Property, Seattle, WA: Mr. Hughes oversaw subslab air monitoring on a commercial property adjacent to a former dry cleaner that had impacted soil, groundwater, and soil vapor. Mr. Hughes also reviewed investigation results from the neighboring property to assess potential impacts to the property. The chemicals of interests included tetrachloroethene and its breakdown products.

Remediation

Sand and Gravel Mine and Asphalt Plant, Salem, OR: Mr. Hughes conducted reconnaissance soil and groundwater sampling as part of a property transfer. Working with the prospective purchaser, Mr. Hughes developed a monitoring and soil removal plan for impacted parts of the property and associated cost estimates to facilitate the sale of the property.

Former Industrial Property, Corvallis, OR: For the Oregon Department of Environmental Quality's Independent Cleanup Pathway, Mr. Hughes used direct-push drilling techniques to conduct on- and off-

site reconnaissance investigations to characterize soil and groundwater. He also created a site-specific health and safety plan. He oversaw a soil removal action and prepared a risk-based cleanup report with site-specific cleanup levels for petroleum hydrocarbons. The soil removal action and risk-based cleanup report allowed rezoning and development of the property as urban residential. The project included Phase I and II environmental site assessments, a soil-removal action, a preliminary beneficial use determination for water, and a risk assessment. The site received a No Further Action determination.

Former Industrial Property, Corvallis, OR: For the Oregon Department of Environmental Quality's Independent Cleanup Pathway, Mr. Hughes used direct-push drilling techniques to conduct on- and off-site reconnaissance investigations to characterize soil and groundwater. He also created a site-specific health and safety plan. He oversaw a soil removal action and prepared a risk-based cleanup report with site-specific cleanup levels for petroleum hydrocarbons. The soil removal action and risk-based cleanup report allowed rezoning and development of the property as urban residential. The project included Phase I and II environmental site assessments, a soil removal action, a preliminary beneficial use determination for water, and a risk assessment. The site received a No Further Action determination.

Agricultural Helicopter Services, Napavine, WA: Mr. Hughes worked with the Washington State Department of Ecology's spill response team to characterize a release of petroleum hydrocarbons from an aboveground storage tank and to oversee cleanup operations. Based on this work, the client received a letter indicating that no further actions were required.

Mining

Sand and Gravel Mine, Battle Ground, WA: Mr. Hughes performed a hydrologic and geologic assessment at a sand and gravel mine, as required by a Washington State Department of Natural Resources Surface Mine Reclamation Permit.

Sand and Gravel Mine, Kelso, WA: Mr. Hughes performed hydrologic monitoring in and around a sand and gravel mine, as required by a Washington State Department of Natural Resources Surface Mine Reclamation Permit.

Sand and Gravel Mine, Amboy, WA: Mr. Hughes conducted a neighborhood survey to establish baseline conditions related to private structures and water wells near a quarry. This process involved working with private landowners to obtain access and hydrologic data.

Sand and Gravel Mine and Asphalt Plant, Salem, OR: Mr. Hughes conducted reconnaissance soil and groundwater sampling as part of a property transfer. Working with the prospective purchaser, Mr. Hughes developed a monitoring and soil removal plan for impacted parts of the property and associated cost estimates to facilitate the sale of the property.



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Kyle K. Roslund Staff Geologist

QUALIFICATIONS

BA, Geology: Albion College

Graduate coursework: Western Michigan University

CERTIFICATIONS

HAZWOPER 40-Hour Safety Training and current 8-Hour Refresher

State of Washington Underground Storage Tank Decommissioning

State of Washington Underground Storage Tank Registered Site Assessor

AHERA Certified Building Inspector

AHERA Certified Asbestos Worker

SKILLS

Mr. Roslund has more than four years of experience in environmental consulting, focused on subsurface investigations and environmental site cleanup in Oregon and Washington. He has helped develop and implement a wide variety of field investigations, and has worked independently and on teams to clean up a multitude of impaired properties.

Mr. Roslund is proficient in a wide variety of boring techniques and has provided oversight during the installation of resource protection wells; remedial action wells, including injection and extraction wells; and piezometers. Mr. Roslund also has experience with the design and implementation of in situ remediation and bioremediation systems related to contaminated soil and groundwater. He has field experience with soil, soil vapor, and groundwater sampling; operation and maintenance of groundwater treatment systems; and construction oversight.

Mr. Roslund has performed data analysis and database management and has generated potentiometric surface maps. He has prepared health and safety plans, cost estimates, and reports such as Phase I environmental site assessments, sampling and analysis plans, and remedial investigations and feasibility studies. Mr. Roslund's background includes geologic mapping, interpretation of aerial photographs, landslide investigations, and geologic education at the primary, secondary, and undergraduate levels.

PROJECT EXAMPLES

Environmental Site Assessments

Phase I and Phase II Environmental Site Assessments, OR and WA: Mr. Roslund has conducted and supervised site assessments for undeveloped land, commercial properties, and industrial facilities. Tasks include historical research, site reconnaissance, regulatory report review, and technical report preparation. He has managed and supervised site characterization and sampling and monitoring activities for commercial and industrial facilities. Tasks include coordination of investigative efforts; setting and implementing site characterization goals; groundwater, soil, and soil vapor monitoring and sampling activities; data analysis; and preparation of reports. Mr. Roslund has experience in conducting investigations at properties impacted by petroleum hydrocarbons, metals, and halogenated volatile organic compounds.



Environmental Site Investigations

Commercial Property, Olympia, WA: Mr. Roslund participated in the final remedial investigation activities at a retail store to evaluate whether the subsurface (soil and groundwater) under the store was adversely impacted by petroleum hydrocarbons and volatile organic compounds from the historical uses at the adjoining and upgradient property where retail gasoline stations and an automotive repair facility formerly operated.

Commercial Property, Arlington, WA: Mr. Roslund oversaw the remedial investigation and feasibility study activities for an active retail gasoline station, with oversight from the Washington State Department of Ecology Toxics Program. The project included assessing the nature and extent of petroleum-impacted subsurface media via the installation of on- and off-property resource protection wells by direct-push probe technology. The investigation included calculating site-specific cleanup levels and cost projections associated with full-scale remediation.

Commercial Property, Seattle, WA: Mr. Roslund oversaw the supplemental remedial investigation for an active retail gasoline station entered into the Washington State Department of Ecology's Voluntary Cleanup Program. Tasks performed by Mr. Roslund included reviewing the historical documentation of previous environmental activities completed at the site, the installation of four resource protection wells via hollow-stem auger drilling technology, and support to the client's legal counsel.

Industrial Property, Milton, WA: Mr. Roslund participated in the remedial investigation and feasibility study for an industrial heavy equipment manufacturer and repair facility. Tasks performed included completing a historical document review of the site, installation of resource protection wells, quantifying the nature and extent of imported fill used at the site, and completing a cost analysis of cleanup options. Contaminants of concern at the facility included petroleum-based solvents, halogenated volatile organic compounds, heavy metals such as chromium VI and arsenic, polycyclic aromatic hydrocarbons, and dieselthrough heavy-oil-range petroleum hydrocarbons.

Commercial Property, Issaquah, WA: Mr. Roslund participated in field activities for a final remedial investigation at a dry cleaning facility that had previously undergone an interim remedial action. Mr. Roslund oversaw the installation of resource protection wells in environmentally sensitive areas of the property via limited access direct-push probe technology. Additional tasks for this project included a final remedial action incorporating the introduction of a blend of proprietary in situ bioremediation compounds to facilitate the reductive dechlorination of halogenated volatile organic compounds. Mr. Roslund also completed performance groundwater monitoring and sampling activities to achieve the end result of receiving a "No Further Action" determination from the Washington State Department of Ecology's Voluntary Cleanup Program.

Remediation

Commercial Property, Tacoma, WA: Mr. Roslund participated in the design and installation of an in situ bioremediation system. This involved introducing oxygen-donating compounds to initiate microbial activity, supporting the mobilization of sorbed-phase petroleum hydrocarbons into the dissolved phase and subsequent breakdown of these products through microbial processes. Mr. Roslund completed performance groundwater monitoring activities and confirmation soil and groundwater sampling.

Commercial Property, Olympia, WA: Mr. Roslund participated in the design, installation, and operation and maintenance of a dual-phase vacuum extraction system that includes the extraction of groundwater and soil vapor while actively drawing constituents of concern, including nonaqueous-phase liquid, into the zone of treatment. Tasks performed by Mr. Roslund included ascertaining site-specific parameters of subsurface conditions, conducting pump and slug tests, installation of extraction wells via mud rotary drilling technology, design and implementation of remediation equipment operation and maintenance, and conducting system and groundwater performance monitoring.

Commercial Property, Kennewick, WA: Mr. Roslund oversaw the installation of remedial action wells via sonic boring technology at a retail gasoline fuel station for the installation of trademarked in-well sparge technology coupled with soil vapor extraction technology. This combination created subsurface circulation cells which actively volatilizes petroleum hydrocarbons and associated volatile organic compounds. Mr. Roslund was also responsible for designing and implementing a vigorous schedule of operation and maintenance for the remediation system equipment, conducting groundwater performance monitoring, and the oversight of advanced well development necessitated by severe biofouling of remedial action wells.

Commercial Property, Napavine, WA: Mr. Roslund managed the design and installation of remedial action sparge wells for the introduction of concentrated ozone gas into the subsurface at a geologically complex retail gasoline fuel station. Tasks performed by Mr. Roslund included determining site-specific geologic characteristics, design of remedial well locations and zones of influence, oversight of horizontal and angled wells under the existing structures at the site, installation of nonreactive barriers in the subsurface to protect underground utilities, and conducting performance groundwater monitoring.

Former Commercial Property, Toppenish, WA: Mr. Roslund conducted fieldwork for the excavation and removal of approximately 900 tons of petroleum-contaminated soil at a former retail gasoline fuel station overseen by the U.S. Environmental Protection Agency. Mr. Roslund oversaw the decommissioning and removal of five underground storage tanks with associated dispensers and piping. Additional tasks included off-property remedial investigations to define the vertical and lateral extent of contamination, and the installation of resource protection wells in areas of environmental concern.

RESEARCH POSITIONS

Albion College, Albion, MI: The position of co-principal investigator for externally funded research at the Pierce-Cedar Creek Institute allowed Mr. Roslund to investigate the shallow subsurface soils at a privately owned nature preserve for the creation of a Geographic Information Systems database of glacially derived geologic deposits and landforms.



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Justin Pounds Staff Environmental Scientist

QUALIFICATIONS

BS, Environmental Studies: University of Oregon

CERTIFICATIONS

HAZWOPER 40-Hour Safety Training

State of Washington, Certified Underground Storage Tank Site Assessor

State of Washington, Certified Underground Storage Tank Decomissioner

State of California, Certified Site Surveillance Technician

State of California, Certified Lead Construction Inspector/Assessor

First Aid/CPR Training



SKILLS

Mr. Pounds has seven years of environmental consulting experience. He has drilled and installed exploratory boring wells; extraction, injection, and monitoring wells; and piezometers, using multiple drilling techniques. He has supervised and inspected the abatement of hazardous waste on various construction sites. Mr. Pounds has performed data tabulation and analysis, and has generated potentiometric surface maps. He has prepared cost estimates, reports, work plans, sampling and analysis plans, quality assurance project plans, and health and safety plans. His geotechnical experience includes surface soil exploration, infiltration testing, and oversight of geotechnical construction activities. Mr. Pounds's current duties include oversight of exploratory drilling and well installation, development, and decommissioning; construction; soil, groundwater, and sediment sampling; and creation of boring logs.

PROJECT EXAMPLES

Soil and Groundwater Investigations

Remedial Investigation of a Woodwaste Landfill, Darrington, WA: Mr. Pounds assisted with the remedial investigation at this facility, including overseeing drilling for soil and reconnaissance groundwater sampling. Mr. Pounds prepares annual reports documenting the groundwater quality near a closed woodwaste landfill.

Groundwater Assessment of Woodwaste Landfill, Wallowa, OR: Mr. Pounds oversaw a groundwater assessment around a closed woodwaste landfill. He assisted with the reconnaissance investigation at this facility, including overseeing drilling for soil and reconnaissance groundwater sampling. Chemicals of concern include anions and cations, salts, metals, total dissolved solids, total suspended solids, and petroleum hydrocarbons.

Reconnaissance Sampling at a Sand and Gravel Mine and Asphalt Plant, Salem, OR: Mr. Pounds conducted reconnaissance soil and groundwater sampling as part of a property transfer. He assisted in the installation of monitoring wells, using cable-tool, hollow-stem auger, and GeoprobeTM drilling techniques.

Exploratory Drilling at an Industrial Waterfront Property, Portland, OR: Mr. Pounds oversaw exploratory drilling, using direct-push techniques, to evaluate potential impacts to groundwater from metals in sandblast grit that could migrate to the Columbia Slough.

Reconnaissance Sampling at a Sawmill Facility, Leavenworth, WA: Mr. Pounds conducted reconnaissance soil, sediment, and groundwater sampling as part of a property transfer. He oversaw exploratory drilling, using GeoprobeTM direct-push techniques, to assess soil and groundwater. Mr. Pounds also collected polychlorinated biphenyl wipe samples.

Remedial Investigation and Feasibility Study at a Commercial Property, Milwaukie, OR: Mr. Pounds logged exploratory borings and collected reconnaissance soil and groundwater samples at and near this site. He assisted in the installation of monitoring wells. The drilling was performed using cable-tool, hollow-stem auger, and GeoprobeTM drilling techniques. Mr. Pounds also created a site-specific health and safety plan.

Remedial Investigation at a Former Wood-Treating Plant, Sandpoint, ID: Mr. Pounds assists with the RI at this facility, including overseeing drilling for soil and reconnaissance groundwater sampling. Mr. Pounds prepares annual reports documenting the groundwater quality. Chemicals of interest include pentachlorophenol and creosote constituents (e.g., polycyclic aromatic hydrocarbons).

Environmental Site Assessments

Site Assessment of an Automobile Service Center, Butte, MT: Mr. Pounds conducted a supplemental site assessment, which included site reconnaissance; interviewing current owners and operators of the facility; preparing beneficial land use and water use determinations; assisting with the preparation of a Level I ecological risk assessment; and calculating site-specific, risk-based concentrations for screening soil and groundwater data. Mr. Pounds advanced exploratory borings, using direct-push drilling techniques to collect reconnaissance soil and water samples.

Site Assessment of an Automobile Service Station, Wenatchee, WA: Mr. Pounds conducted a supplemental site assessment, which included site reconnaissance, interviewing current owners and operators of the facility, preparing beneficial land use and water use determinations, and assisting with the preparation of a Level I ecological risk assessment.

Environmental Site Investigation and Remediation

Remedial Investigation at a Former Wood-Treating Facility, Ridgefield, WA: Mr. Pounds logged exploratory borings, collected reconnaissance soil and groundwater samples, completed test pits, and installed groundwater monitoring and remediation wells. Chemicals of interest included pentachlorophenol; polycyclic aromatic hydrocarbons; volatile organic compounds; and arsenic, chromium, and copper. Mr. Pounds observed the abandonment of borings and monitoring wells with heat-resistant grout. He manually collected sediment samples along the bank of Lake River. Drilling methods observed included cable tool, hollow-stem auger, air rotary, and sonic.

Remedial Investigation at a Silicon-Wafer Manufacturing Facility, Portland, OR: Mr. Pounds assisted with the RI at this facility, including overseeing drilling for soil and reconnaissance groundwater sampling. As part of the remedial investigation, he conducted routine groundwater monitoring in on-site wells, using low-flow sampling techniques.

Groundwater Monitoring at a Former Manufactured Gas Plant and Petroleum Terminal, Astoria, OR: Mr. Pounds conducted quarterly groundwater monitoring and monthly nonaqueous-phase liquid monitoring and removal from wells, and replaced absorbent pads over a petroleum seep in the intertidal zone.

Soil Vapor Extraction System at a Truck Manufacturing Plant, Portland, OR: Mr. Pounds oversaw the drilling and installation of soil vapor extraction wells. Mr. Pounds completed geologic descriptions of the soil cores, as well as the collection of soil and groundwater samples during drilling.

Phase II Investigation of a Sawmill Facility, Warrenton, OR: Mr. Pounds performed Phase II investigation fieldwork activities including sampling of historical electrical equipment for PCBs, sediment grab sampling and oversight of GeoprobeTM soil and groundwater sampling activities. He coordinated utility locations for the complex 100-acre site, and adhered to sensitive client confidentiality requirements regarding the pending property transaction. At the completion of fieldwork, Mr. Pounds prepared a Phase II report within the clients' strict transaction timeline requirement.

Stormwater

Stormwater Sampling at a Truck Facility, Portland, OR: Mr. Pounds conducted stormwater sampling at this facility, using a telescopic pole that was inserted down a manhole.

Process and Stormwater Sampling at a Lumber Mill, Kalama, WA: Mr. Pounds conducted sampling of noncontact process water, using a telescoping pole inserted into a discharge stream. He also examined catch basins and oil/water separators for proper functioning.

Process and Stormwater Sampling at a Lumber Mill, Molalla, OR: Mr. Pounds conducted sampling of process water, using a telescoping pole inserted into a discharge stream. He also examined catch basins and oil/water separators for proper functioning. He has also supervised storm line cleanout of the entire property while repairing existing pipes and catch basins.

Process Water Sampling at a Lumber Mill, Willamina, OR: Mr. Pounds conducted sampling of process water, using a telescoping pole inserted into a discharge stream and designated outfalls throughout the lumber mill. He also examined catch basins and oil/water separators for proper functioning.

Mining

Sand and Gravel Mine Assessment, Battle Ground, WA: Mr. Pounds performed a hydrologic and geologic assessment at a sand and gravel mine, as required by a Washington State Department of Natural Resources Surface Mine Reclamation Permit.

Sand and Gravel Mine Hydrological Monitoring, Kelso, WA: Mr. Pounds performed hydrologic monitoring in and around a sand and gravel mine, as required by a Washington State Department of Natural Resources Surface Mine Reclamation Permit.

Sampling at a Sand and Gravel Mine and Asphalt Plant, Salem, OR: Mr. Pounds installed monitoring wells and conducted reconnaissance soil and groundwater sampling as part of a property transfer.

Construction Management

Construction Oversight at a Bulk Fuel Terminal, Portland, OR: Mr. Pounds inspected, documented, and provided geotechnical oversight of construction during the installation of a 14,000-gallon oil/water separator foundation, vaults, and manholes, and subsequent backfilling operations.

Demolition Oversight at a Silicon-Wafer Manufacturing Facility, Portland, OR: Mr. Pounds supervised the demolition of a chrome storage building and removal of underground pipes.

Hazardous-Waste Abatement in Commercial Properties, San Francisco, CA: Mr. Pounds was the site safety officer and industrial hygienist on various commercial properties throughout San Francisco. Mr. Pounds oversaw the abatement of asbestos, lead, and polychlorinated biphenyls in construction zones. To ensure the safety of the public, abatement was performed in negative-pressure enclosures with high-efficiency particulate air vacuums. After the abatement of hazardous material, Mr. Pounds conducted

visual and final air clearances in each containment area to ensure safe reoccupancy. He managed data, prepared analytical tables, and assisted with report preparation.

Various Underground Storage Tank and Underground Injection Control Decommissioning,
Pacific Northwest: Mr. Pounds provided assistance in the decommissioning process for USTs and UICs on various sites, including field confirmation sampling and closure reporting.

Dredging and Over-Water Work

Municipal Dock Upgrades, OR: Mr. Pounds was involved in the preparation of a sampling and analysis plan and the characterization of sediment in the Willamette River offshore of a city-owned dock. Mr. Pounds oversaw the dredging and collected turbidity samples around the dredging project, which was successfully completed in early 2007.

Bio-solid Pond Dredging, Petaluma, CA: Mr. Pounds oversaw and managed the dredging of biosolids from three wastewater ponds. He oversaw direct-push exploratory drilling to assess soil and groundwater of the surrounding area.

Sediment Characterization, WA: To assess chemical and physical characteristics of sediment, Mr. Pounds conducted an over-water investigation, using vibracore sampling techniques. The sediment parameters investigated included semivolatile organic compounds, polychlorinated biphenyls, pesticides, metals, total organic carbon, and grain size.

Municipal Dock Upgrades, OR: Mr. Pounds was involved in the preparation of a sampling and analysis plan and the characterization of sediment in the Willamette River offshore of a city-owned dock. He also oversaw and managed the dredging of solids from the dock area.

Solid Waste

Passive Landfill Gas Collection System Monitoring, Alameda County, CA: Mr. Pounds oversaw day-to-day monitoring of a passive gas collection system and installed several vertical gas extraction wells on site. Mr. Pounds sampled vertical and horizontal wells and methane gas vents on a golf course that had been constructed on top of a former municipal landfill.

Passive Landfill Gas Collection System Sampling, Fresno, CA: Mr. Pounds sampled vertical gas wells every week on a former landfill.

Active Landfill Gas Collection System, Sacramento County, CA: Mr. Pounds assisted in the construction and monitoring of an active gas collection system. After the installation of the wells and system, Mr. Pounds helped troubleshoot and adjust the vacuum pressure in each extraction well to maximize collection. Mr. Pounds also helped oversee installation of the liner (geosynthetic membrane) on top of the landfill.

PROJECT EXPERIENCE

Environmental Site Assessments for SCA Environmental, Inc., San Francisco, CA: As an environmental scientist for this company, Mr. Pounds conducted Phase I and II environmental site assessments and hazardous-material surveys. He supervised and inspected the abatement of hazardous waste on various work sites and enforced environmental, health, and safety regulations for hazardous waste abatement crews. He oversaw major projects, including groundwater and sediment sampling and stabilization, and supervised the installation and development of monitoring wells. Mr. Pounds provided on-site training on hazardous-waste abatement and health and safety regulations for workers. He prepared final reports for clients upon completion of projects.

Phase I and II Site Assessments for Commercial and Industrial Sites, CA: Mr. Pounds was the environmental scientist for Phase I and II environmental site assessments on sites in San Francisco, Sacramento, Oakland, and Los Angeles, California, for commercial clients and development companies.

Mr. Pounds oversaw exploratory drilling, using direct-push techniques, to assess soil and groundwater. He also conducted an Asbestos Hazardous Emergency Response Act asbestos and lead survey of the properties. Projects were completed within a condensed time frame to provide clients with information critical to transaction determinations. Some aspects of work were completed in support of litigation with other parties.

Site Assessment for Commercial Development, Los Angeles, CA: To facilitate a property transfer, Mr. Pounds assisted in completing Phase I and II environmental site assessments to evaluate recognized environmental conditions along the Los Angeles River. Mr. Pounds oversaw exploratory drilling, using direct-push techniques, to assess soil and groundwater. He assisted in the installation of monitoring wells throughout the property, using cable-tool, hollow-stem auger, and GeoprobeTM drilling techniques. Mr. Pounds also conducted an Asbestos Hazardous Emergency Response Act asbestos and lead survey of the property. He managed data, prepared analytical tables, and assisted with report preparation.

Exploratory Drilling at the Sacramento Army Depot, Sacramento, CA: Mr. Pounds oversaw exploratory drilling, using direct-push techniques, to evaluate potential impacts of past and present land use applications.

Hazardous-Material Abatement at Elementary Schools, San Mateo, CA: Mr. Pounds supervised removal of hazardous materials during remodeling of various schools. During removal of hazardous materials, Mr. Pounds conducted air sampling and wipe sampling to ensure safe and proper removal of waste. He also supervised final inspections and final clearance testing to ensure that the schools were safe for occupancy.

Mold Testing for School Districts, San Francisco and Oakland, CA: Mr. Pounds conducted testing for mold at various schools throughout the bay area. The projects included collecting mold samples for laboratory analysis, as well as air sampling for mold spores. Both types of samples were analyzed and recommendations were made for mold remediation based on the species found. Mr. Pounds was also responsible for air sampling and laboratory analysis during asbestos abatement at the schools. The project required extensive documentation, as well as the implementation of health and safety plans, report writing, and coordination among various governmental agencies, contractors, and the client.

APPENDIX D

USER DATA REQUEST AND FORM 17 COMMERCIAL



PHASE I ESA QUESTIONNAIRE

Official Property name: <u>25 North Worthen Street (Abandoned City of Wenatchee Public Works)</u>
Owners: City of Wenatchee
Site Contact Steve King
<u>3 acres +/-</u> -acre parcel
Tax Lot <u>222003821007</u>
Site Map
Buildings/Size One metal frame shop building approximately 60x120 Ft
Is there any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property? No, not that I'm aware of.
Are there any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property? One heating oil tank was found to be leaking when it was removed.
Are there any notices from any government agency regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? No, not that I'm aware of.
Are there any environmental liens on the property (i.e., based on the chain of title?) No, not that I'm aware of
Are there any other environmental problems or impacts associated with the property? Part of the property has an old municipal landfill underlying it.
The Property is bordered on each side by the following:
• North—
Pedestrian path to downtown and parking lot for the waterfront park
• South—
Access road to the waterfront park

• West— Worthen Street

East—

Waterfront Park

Facility description and activities The property served as the City of Wenatchee public works site since the mid 50's. The public works site supported functions of fleet maintenance, streets, water, and stormwater maintenance as well as administrative functions of public works. The site also was utilized to mine gravel and dispose of municipal refuse.

Materials used <u>Typical public works materials were located on site including fuel, de-icing chemicals, paint, and lub oils.</u>

Waste management A portion of the site was utilized as a municipal landfill.

Known spills No known spills.

Any imported fill material? The site likely has imported fill used to raise the site and cover the landfill.

Any previous environmental investigations/reports? <u>EPA START</u>, and <u>Park development soils investigation</u>. Also, soil sampling as of 2009.

ASTs <u>55 gallon lube oil drums</u>

USTs <u>Fuel tanks were removed a number of years ago.</u> One underground heating oil tank was discovered and removed. Upon removal, a leak was discovered in the tank.

Drums Lub oil drums were used on the site.

Hazardous-substance and petroleum-products containers <u>5 gallon road</u> paint buckets

Unidentified-substance containers None known

Odors None

Permits

Solid waste N/A

Wastewater <u>Served by the City Wastewater Treatment Plant – stormwater as well as sanitary sewer.</u>

Hazardous waste None

Air None

Pools of liquids, sheen or discoloration of standing water None

Evidence of spills (soil staining, stressed vegetation) A portion of the site has gray soils with odor

Pits/ponds or lagoons None

Roads None

Transformers/capacitors/fluorescent lights? A pad mounted transformer is located on the site.

Water source <u>City of Wenatchee Water System</u>

Wells None

Drywells None

Septic systems None

Sanitary waste Piped directly to the City sewer plan nearby.

Storm drains <u>Piped directly to the City sewer plant</u>. The <u>First Street storm drain trunk line runs under the northerly edge of the site.</u>

Power source Chelan PUD

Heating (if oil, where are fuel tanks?) Removed heating oil tank described above.

Lead paint None

Asbestos None

Historical records/uses Public works site. None known prior

Previous owners See chain of title report

Previous occupants None known

Previous adjacent owners/occupants Pybus Steel located to the south

Other notes None

APPENDIX E

TITLE REPORT



Central Washington Title

Post Office Box 4680 Wenatchee, Washington 98807-4680 509 665-9800 fax 509 667-8400

Customer

The City of Wenatchee

Name

INVOICE =

11/30/2009

Date

Address		Order No.	13315
City	State	Rep	
Phone	Fax	ГОВ	
Qty	Description	Unit Price	TOTAL
	Chain of Title Guaranty Matters shown (18 @ \$3.00) 8% Sales tax:		\$100.00 \$54.00 \$12.32
		SubTotal	
/	ayment Details		
○	Cash Check	*********	
		TOTAL	0400.00
Name	Credit Card	TOTAL	\$166.32
CC#		Office Use Only	
55#	Expires	Sso sos siny	

SCHEDULE A

Order Number: 13315 Guarantee No.: G-1578-

Amount of Liability: \$50.00 Premium: \$154.00

1. Name of Assured:

City of Wenatchee, a Municipal corporation

2. Date of Guarantee:

November 23, 2009 at 12:00 AM

The assurances referred to on the face page are:

That, according to those public records which, under the recording laws, impart constructive notice of matters relating to the interest, if any, which was acquired by the City of Wenatchee pursuant to a Statutory Warranty Deed in and to the land described as follows:

See Attached Exhibit A

Only the following matters appear in such records subsequent to June 18, 1888:

1. Patent:

Grantor:

The United State of America

Grantee: Recorded:

Recording No.:

Thomas N. Doak June 18, 1888 Book 5, Page 208

2. Deed:

Grantor:

Thomas N. Doak, unmarried

Grantee:

Don Carlos Corbelt

Recorded:

July 28, 1888

Recording No.:

Book 3, Page 6

3. Deed:

Grantor:

Thomas Burke and Carrie E. Burke, husband and wife

Grantee: Dated: Wenatchee Improvement Company, a corporation January 3, 1891

Recorded:

January 10, 1891

Recording No.:

Book 1, Page 109

SUBJECT TO THE EXCLUSIONS FROM COVERAGE, THE LIMITS OF LIABILITY AND OTHER PROVISIONS OF THE CONDITIONS AND STIPULATIONS HERETO ANNEXED AND MADE A PART OF THIS GUARANTEE.

Guarantee No: G-1578-

CHAIN OF TITLE GUARANTEE

4. Deed:

Grantor:

Wenatchee Improvement Company

Grantee:

The Wenatchee Development Company

Recorded: Recording No.:

November 27, 1891 Book 1, Page 293

5. Warranty Deed:

Grantor:

The Wenatchee Development Company, a corporation

Grantee:

Arthur Gunn

Recorded: Recording No.:

December 16, 1897 Book 4, Page 514

6. Warranty Deed:

Grantor:

Arthur Gunn and Sarah E. Gunn, husband and wife Wenatchee Development Company, a corporation

Grantee: Recorded:

June 10, 1899 Book 5, Page 27

Recording No.:

7. Deed:

Grantor:

The Wenatchee Development Company, a corporation

Grantee: Dated: P.F Scheble March 16, 1928 March 17, 1928

Recorded:

Recording No.: 163872

8. Statutory Warranty Deed:

Grantor:

P.F. Scheble and Dorothy M. Scheble, husband and wife

Grantee:

P.F. Scheble Lumber & Box Company,

a partnership consisting of P.F. Scheble and

H. E. Jones

Dated:

September 4, 1934 September 6, 1934

Recording No.:

Recorded:

241987

9. Deed:

Grantor:

P.F. Scheble and Harry E. Jones, co-partners doing

business as P.F. Scheble Lumber and Box Company,

and Dorothy Scheble, wife of P.F. Scheble, and Molly M. Jones, wife of Harry E. Jones

Grantee:

Scheble-Wright Lumber and Box Company, a corporation

Dated: Recorded: March 11, 1935 March 16, 1935

Recording No.:

246129

CHAIN OF TITLE GUARANTEE

10. Quit Claim Deed:

Grantor:

P.F. Scheble Lumber & Box Company, a partnership

consisting of P.F. Scheble and H. E. Jones

Grantee:

Harry E. Jones July 13, 1939

Dated: Recorded:

September 30, 1940

Recording No.:

317375

40230

Said instrument is a re-record of Recording No. 301789.

11. Deed:

Grantor:

The Wenatchee Development Company, a corporation

Grantee:

Beni Greenberg

Dated: Recorded: August 18, 1911 September 2, 1911

Recording No.:

12. Executor's Deed:

Grantor:

J. H. Miller, the duly appointed, qualified, and acting

executor of the estate of Ben Greenberg, deceased

Grantee:

The Washington Electric Company, a Maine corporation

Dated:

January 6, 1931

Recorded:

January 7, 1931

Recording No.: 205252

13. Statutory Warranty Deed:

Grantor:

P. F. Scheble and Dorothy M. Scheble, husband and wife

Grantee:

P.F. Scheble Lumber & Box Co., a corporation

Dated:

August 1, 1934 Recorded: August 3, 1934

Recording No.:

241073

14. Deed:

Grantor:

Puget Sound Power & Light Company, a corporation

Grantee:

E. T. Pybus Company

Dated: Recorded: October 26, 1951 November 20, 1951

Recording No.:

452643

15. Warranty Deed:

Grantor: Grantee: E. T. Pybus Company, a Washington corporation The City of Wenatchee, a municipal corporation

Dated:

October 14, 1955

Recorded:

October 23, 1955

Recording No.:

501040

Guarantee No: G-1578-

CHAIN OF TITLE GUARANTEE

16. Quit Claim Deed:

Grantor:

E. T. Pybus Company, a Washington corporation

Grantee:

Pybus Steel Company, a Washington corporation

Dated:

January 4, 1956

Recorded: Recording No.:

January 4, 1956 503317

17. Deed:

Grantor:

State of Washington

Grantee:

The City of Wenatchee, a municipal corporation

Dated:

February 11, 1959 March 10, 1959

Recorded: Recording No.:

546839

For:

All shore lands

18. Statutory Warranty Deed:

Grantor:

Pybus Steel Company, a Washington corporation

Grantee:

The City of Wenatchee

Dated:

July 25, 1984

Recorded:

December 26, 1984

Recording No.: 8412260023

This Guarantee does not cover:

1. Taxes, assessments, and matters related thereto.

2. Instruments, proceedings, or other matters which do not specifically describe said land.

Guarantee No: G-1578-

Order Number: 13315

EXHIBIT "A"

That portion of Lots 2 through 9 and the South half of vacated First Street North, Block 3, River Front Addition to Wenatchee, Washington according to the plat thereof recorded in Volume 2 of Plats, Page 64, records of Chelan County, Washington, also being a portion of the parcel surveyed and shown on survey recorded under Auditor's File No. 8309190039, described as follows:

Beginning at the intersection of the centerline of vacated First Street North and the Easterly right of way of Worthen Street; thence North 61°02'36" East, along said centerline 324.57 feet to a 5/8" iron pin; thence South 28°36'38" East 162.60 feet to a 5/8" iron pin; thence South 61°23'22" West 12.50 feet to a 5/8" iron pin; thence South 29°13'34" East 188.28 feet to a 5/8" iron pin; thence South 16°15'30" West 99.68 feet to a 5/8" inch iron pin; thence South 61°02'22" West 180.99 feet to a 5/8" iron pin; thence North 74°00'36" West 84.95 feet to a 5/8" iron pin on the Easterly right of way of Worthen Street; thence North 28°56'15" West along said right of way 361.02 feet, more or less to the Point of Beginning.

TOGETHER WITH that portion of the Easterly 10 feet of Worthen Street vacated by Ordinance No. 2008-04 recorded under Auditor's File No. 2277031, records of Chelan County, Washington, described as follows:

Beginning at the intersection of the centerline of vacated First Street North and the Easterly right of way of Worthen Street; thence South 28°56'15" East, along the Easterly right of way of said Worthen Street, 361.02 feet; thence North 74°00'36" West 14.45 feet to a point on the West line of the Easterly 10 feet of platted Worthen Street; thence North 28°56'15" West along said West line 350.81 feet; thence North 61°02'36" East 10.00 feet to the Point of Beginning.

The United States of America So all to whom these presents shall come. Gruting Homestead Certificate

application so I whereas. There has been deposited in

the Eunical Land Office of the Vinited Status a Certificate of the Register of the Land Office at North Yahima Washington Suritory whereby it appears that nursiant to the Oct of Congress approved 20th of May, 1862.

Jo Sieure Romisteads To Octual Sittlers On the Guthe Domain, and the acts supplemental thereto, the claim of Thomas N. Doals has been established and duly consummated, in conformity to law for the Lots numbered four and five, the South East quarter of the North West quarter and the South West quarter of Section three, in town the twenty two north of Range Swenty east of Williametti Mendian in Washington Servitory, containing one hundred and forty two acre, and musty hundredthe of an acre according to the Office Office Survey of the soud land, niturned, to the Servey of the Survey of the soud land, when the Servey of the soud land.

how know is, That there is, therefore quanted by the United States into the soid Thomas n. Doals the tract of land above described. To have and to hold the said Thomas n. Doals and to his here and arright for minning, agricultural, manifesturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and actinowledged by the local customs, laws, and diessions of courts, and also subject to the right of the proprietor of a vein or local is istract and remove his ore therefore. Should the same be found to printed by law.

en Such

En Justimony whereof I. Grover Cheveland, Gresident of the United States of america, have coursed these letters to be made Patent, and the Seal of the General Land Office to be hereunto affined.

Biven under my hand, at the City of Washington, the eighteenth day of August in the year of our Lord Dre Shousand Bight Kundred and eighty eight and of the Independence of the United States the Dre Kundred and thirteenth.

ut Medidalia katika kecampu

6	
	DEED
e e	This Indenture, Made the Linearly tight day of Lily A. D. one thousand eight hundred and eighty - Light by and between Thomas N Dock unmarried unmarried of Northan County of in the Makington, gradur party of the first part, and Dow Carles Corlicle Washington, gradur party of the County of Mithiaton in the Arrestory of Machington grantee
The section was	party of the agound part: WITNESSETH, that the end party of the first part, for and in confederation of the sum of Solle of house and Statent. hieraclical world fellip Dultars, to here! path by the ends part you of the ercond part, the receipt wherever is hereby noknowledged, data by these presents, OHANT, BARGAIN AND FELL, CONVEY AND CONFIRM, unto the end part y, of the eccount purt has heirs and estimate the following described loss, trade or parcels of land, lying and estuate in the County of Stellings and estuate in the County of Stellings. Cash quantur of the North work.
	north of Range no (20) twenty, least of Williamille Mendian,
	Containing 63 acres more or less in Kellilas County, Washington
The state of the s	
	TO HAVE AND TO HOLD; the premises aforesaid, with all and singular the rights, privileges, appurisagnoes and immunities thereunto belonging, or in anywise apperuining, unto the said part y of the second part, and unto the heirs and assigns, forever; the said party, afficient party communing that the Level awfully solved of an indefensible estute in fee, in the premises here in sonveyed; that the heavy afficient has good right to convey the same; that the said premises are free and clear of any incumbrances done or suffered by the property of these under whom he claims
The state of the s	and that LL. will WAIRANT AND DEFEND the title to the said premises unto the said part ty of the second part, and unto LLD hetrs and assigns, FOREVER, against the lawful claims and demants of all persons thomseever.
	1. WITNESS WHEREOF, the said part y of the Rest part, had hereunto set fice hand and seal this 28th day of July 1. D. 1888. Signed, Scaled, and Delivered in Presence of Chance Garde Geal) Daniel Galey (Seal)
2,525)	Teretory STATE OF WASHINGTON. County of Killian, Ses. THIS CERTIFIES, that on this 2.8 the day of Seeling. A. D. one thousand eight hundred and
eds Gas	Lighty. Light. before me, the undersigned, Handle Backey, W. Notary Lubbin and for said Country all 1825, personally appeared the within named. The man No. 10ak. whose name. La subscribed to the foregoing instrument as purt if thereunto, personally known to me to be the individual described in, and who executed the within DEED, and acknowledged that he was executed the same freely and voluntarity, and for the uses and purposes therein mentioned.
, de 1	and for the lists and perform the thought to work to which the foreign instruction, and examined her especial and expected that the volvatably of bearing fees will and without fore of an expected first and expected the expecte
Todan O	IN WITHESS WHEREOF, I have hereunto set my hand and appear my oppoint seat, the day and year in this certificate first above written. SEMI- Notany Cublic
	Filed for record on the 28° day of July U. D. 1888. at 45 past
garanta lun seri s	aud to-

State of Washington, so

and for said County and State, do hereby certify that on this 13th day of December a D 1890 personally appeared before me E I fitting, to me known to be the individend discribed, in and who executed the within instrument and acknowledged that he signed and realed the same as his free and voluntary act, and study for the was and furposes therein mentioned for the was and furposes therein mentioned

this is day of December a. D. 1890.

(Seal) Residence, Spokane Talls, Washington.

Filed for Record Die 17th 1890 at 82 am. Request E. J. Luster H. M. Bryant Co auditor By W. H. Kaup Deputy

(From Vol. m. of Duds page 241)

Thomas Brishe & Wife.

The Winatchie Improvement Co.

Dud.

This Inductive, made this are day of January 1991 between Thomas Bruke and Carrie E. Burke his wife, of Seattle King County, Washington the parties of the first part, and the Winatchee Improvement Company, a composition duly organized and existing under and by virtue of the laws of the State of Washington, party of the second part.

Witnesself: That the parties of the first part for and in consideration of the sum is Trunty Thomasand Dollars to them in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, do by these muents, grant, bargain sell convey and confirm tinto the said party of the record part, and to its successors and assigns, all of the following described tracts or parcels of land, situation

discilled therein, and that inspired the same as a poster thereto and their, said president and recretary duly acknowledged to me that they executed the same freely, and well-morely, as such prevident and secretary and as and for the act and dud of said Wenatchie Investment Company, and that said corporation executed the same for the uses and purposes therein mentioned, and that the seal which is thereto affined is the corporation and was thereto affined the corporation and was thereto affined the affined by written thereof.

hand and affixed my officear real at my office in the City of Scattle, in the State of Washington, the day and year last above within

(Sial)

S S Griftth, Notary Public in and for the State of Washington reciding at Szattle in said State

Filed for Record nov 27th 1891 at 4× P.M. Reguert Burke Shepand Woods.

(From Vol O of Buds page 232)

Winatchie Improvement Company
So
The Winatchie Development Company

bul.

meeting of the Board of Trustus of the Wenotcher Improvement Company, held at Seattle, Washington, on the 9th day of November, 1891, said Board of Trustus did poes a resolution to sell and convey to The Wenotcher Development Company all the lands hereinafter described and did authorize the president and secretary of said Wenotchie Improvement Company to execute and deliver to said The Wenotchie Development Company a deed of said lands herenafter described.

Now. Therefore, this industrie made the 9th day of november, in the year of our hord one thousand eight hundred and ninety one. by and between Wenatchie

2 athur bunn et ive

Warranty Dud.

The Windtchee Development Co.

of may in the year of our coid one thousand light hundred and ninety.

nine Between arthur Gum and Sarah & Gum his wife the parties of the first part, and Wenatchee Development Company, a corporation having its principal place of business at Seattle, Sting County: Wash party of the second part:

Witnesseth, That the said parties of the first part, for and in consideration of the sum of Time hundred twenty five of tollars lawful money of the United States to them in hand paid by the said party of the second part, the recept whereof is hereby admonledged, do by these presents broad, Borgain, Sell. Convey and Confirm unto the said party of the second part, and to its successors and assigns the following described tract, lot or porcel of land, situate lying and being in the Country of Kittitas, State of Washington, and secretical arly bounded and described as follows,

The northeast quarter of the southwest quarter of the northwest quarter of the northwest quarter of section three (3) in township twenty two (22) north of romae twenty (20) 8. W. M. Jogether with the appurtenances to have and to hold the said primises, with the appurtenances, unto said exartof of the second part, and to its successors and assigns forwer.

And the said parties of the first part, their heirs, executors and administrators, do by these meants covenant, grant and agree to and with the said party of the second part its successors and assigns, that they the said parties of the first part, their heirs, executors and administrators, all and singular the premises hereinabore conveyed, described and granted, or mentioned, with the appurtenances, unto the said harty of the second part, its successors and assigns, and against all and every person or persons whomeover lawfully daining or to claim the same or any part thereof, shall and will Warrant and forwer Defind.

In Witness Whereof, the said parties of the first part have hereinto set their hands and seals the day and year first above written.

Signed Sigled and Delivered in Presence of Wm. a. Hunche

arthur Gunn (Seal).

DEED RECORD-No. 203

CHELAN COUNTY, WASHINGTON

that he signed and scaled the same as his free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN UNDER MY HAND AND OFFICIAL SEAL, this 17th day of March, 1928.

NOTARY PUBLIC

Notary Public in and for the State of Washington, residing at Wenatchee in said county. Filed for record at the request of James Menzies, March 17, 1928 at 10:39 A. M.

JOHN GODFREY County Auditor

No. 163872

DEED

THIS INDENTURE, Made this 16 day of March 1928 between THE WENATCHEE DEVELOPMENT COMPANY, a corporation duly incorporated, organized and existing under and by virtue of the laws of the State of Washington, the party of the first part, and P. F. Scheble of Wenatchee Washington, the party of the second part.

WITHESETH, That the said party of the first part, for and in consideration of Twelve Thousand, Five Hundred (\$12,500.) Dollars, Gold Coin of the United States, to it paid by the said party of the second part, does hereby grant, bargain, sell, convey and confirm unto said party of the second part, and to his heirs and assigns forever, the following described lots, pieces or parcels of land, lying and being in the County of Chelan, State of Washington and particularly bounded and described as follows, to-wit:

Lots One, Two, Three, Four, Five, Six, Seven, Eight, Nine, Ten and Eleven, Blook One; Lots One, Two. Three, Four, Five, Six, Seven, Eight and Nine Block Two; Lote One, Three Four, Five, Six, Seven, Eight, Nine, Seven, Eight, Nine, Ten, Eleven, Thirteen, Fourteen, Fifteen, Sixteen, Seventeen, Eighteen, Mineteen, Twenty-one, Twenty-two, Twenty-three, Twenty-four, Twenty-five, Twenty-six and Twenty-seven Block Four; Lots Three, Five, Fourteen, Fifteen, Sixteen, Seventeen, Eighteen, Mineteen, Twenty-one, Twenty-two, Twenty-three, Twenty-four, Twenty-five, Twenty-six, Twenty-seven, Twenty-eight, Twenty-nine, Thirty, Thirty-one and Thirty-two Block Seven, and all of Block Eight River Front Addition to Wenatchee.

Together with all and eingular the tenements, hereditamente and appurtenances thereunto belonging or in anywise apportaining, and also all the estate, right, title and interest, at law and in equity, of said party of the first part, therein or thereto.

TO HAVE AND TO HOLD the said premises to the said party of the second part, and to his heirs and assigns forever.

And the said party of the first part and its successors and accigns shall and will warrant and defend by these presents the said premises unto the said party of the eccond par...heire and assigns against the lawful claims and demands of all persons claiming or to claim by, through or under said party of the first part, subject, however, to all taxes and assessments according or to accrue against said premises or any part thereof, all of which taxes and assessments the party of the second part assumes, and also subject to any claims of the State or any one claiming by, through or under the State to such part (if any) of eaid premises as may lie below the line of ordinary high water in the Columbia river.

The said party of the first part hereby limits the covenants of this deed to the one herein expressed and excludes all covenants arising by implication of law.

IN WITHESS WHEREOF, the said party of the first part has caused these presents to be subscribed by its President and Secretary, thereunto duly authorized, and its corporate name and scal to be hereunto affixed the day and year first above written.

Signed, Sealed and Delivered) (CORPORATE SEAL) THE WESATCHEE DEVELOPMENT

COMPANY
By T. H. Haller
President.

And C. W. Coulter

STATE OF WASHINGTON, SS.

in Presence of ...

On this 16th day of March A. D. 1928 before me personally appeared T. N. Haller and C. W. Coulter, to me known to be the President and Secretary of the corporation that executed the within and foregoing instrument, and acknowledged the said instrument to be the free and voluntary set and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they were authorized to execute said instrument and that the seal

CHELAN COU



DEED RECORD-No. 203

CHELAN COUNTY, WASHINGTON

affixed is the corporate seal of said corporation.

IN WITHESS WHEREOF. I have hereunto set my hand and affixed my official seal the day and vear first above written.

Sam A. Wright

We When Fotary Public in and for the State of Washington, residing at Seattle. Fil-NOTARY PUBLIC ed for record at the request of P. F. Scheble Lumber & Box Co. March 17, nay 1/ 1/28 1928 at 11:17 A. M.

> JOHN CODFREY County Auditor.

No. 163873 WARRANTY DEED

THIS INDENTURE, Made this First day of March in the year of our Lord one thousand nine hundred and Twenty-eight BETWEEN Clauda F. Case and Ida B. Case, his wife, of Wenatchee, Washington, the parties of the first part, and J. W. Styles, a divorced man, of Wenatchee, Washington, party of the second part;

WITNESSETH: That the said parties of the first part, for and in consideration of the sum of Nine Thousand Five Hundred and no/100ths DOLLARS, lawful money of the United States, to them in hand paid by the said party of the second part, the receipt whereof is hereby acknow ledged, do by these presents, Grant, Bargain, Sell, Convey and Confirm unto the said party of the second part, and to his heirs and assigns, the following described tract, lot or parcel of land, situate, lying and being in the County of Chelan, State of Washington, particularly bounded and described as follows, to-wit:

Lot numbered Mineteen (19) in Block numbered five (5) of Nob Hill Addition to the City of Wenatchee, Washington, according to the recorded plat thereof now on file and of record in the office of the auditor of Chelan County,

TOGETHER with the appurtenances, to have and to hold the said premises with the appurtenances, unto the said party of the second part, and to his heirs and assigns forever.

and the said parties of the first part their heirs, executors, and administrators, do by these presents covenant, grant and agree to and with the said party of the second part heirs and assigns, that they, the said parties of the first part, their heirs, executors and administrators, all and singular, the premises hereinabove conveyed, described and granted, or mentioned, with the appurtenances, unto the said party of the second part, his heirs and assigns, and against all and every person or persons whomsoever lawfully claiming or to claim the same or any part thereof, subject to a mortgage of \$4,500.00 to the Capital Savings & Loan Association which the second party assumes and agrees to pay shall and will WARRANT and forever partially with the second parties of the first part have hereunto set their hands and seals the day and year first above written.

Claude F. Case (SEAL)

in Presence of L. C. Bailey

Ida B. Case

(SEAL)

STATE OF WASHINGTON. COUNTY OF Chelan.

THIS IS TO CERTIFY. That on this 16th day of March, A. D. 1928 before me, the undersigned, a Motary Public in and for the State of Washington, duly commissioned and sworm, personally came Claude F. Case and Ida B. Case, husband and wife, to me known to be the individuals des cribed in and who executed the within instrument, and acknowledged to me that they signed and sealed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

WITHESS my hand and official seal, the day and year in this certificate first above write ten.

L. C. Bailey

L. C. Bailey

NOTARY PUBLIC Motary Public in and for the State of Washington, residing at Wenatchee. 7/42 2/ 1924 Washington. Filed for record at the request of J. W. Styles, March 17, 1928

-√at 11:23 A. W.

JOHN GODFREY County Auditor.

No. 163881 QUIT CLAIM DEED

THIS INDESTURE WITNESSETH, That Carl Christopher and Leah B. Christopher, husband and wife, and Ray F. Highland and Bertie A. Highland, husband and wife, parties of the first pa

CHELAN COUNTY, WASHINGTON

R. Linville and Berthol Linville, his wife. to me known to be the individuals described in and who executed the foregoing instrument, and acknowledged to me that they signed and sealed the said instrument as their free and voluntary act and deed for the uses and purposes therein mentioned.

Witness my hand and official seal hereto affixed the day and year in this certificate above written.

Maud Graves

(Notary Public, M. G.) Notary Public in and for the State of Washington, residing at (Com. Exp. Mar. 5, 1952) Wenatchee. Filed for record at the request of Chelan County Abstract Co. September 6, 1954 at 2:02 P. M.

E. M. GILLETTE County Auditor.

No. 241984.

STATUTORY WARRANTY DEED

THE GRAITCR.WILLIAM H. CASSELL, husband of Eather Cassell, deceased, for and in consideration of One Dollar, (\$1.00) in hand paid; conveys and warrants to ROBERT E. McCOOMP as his own separate property, the following described real estate, situated in the County of Chelan, State of Washington:

The East 50 feet of Lots ten (10) and eleven (11) and the east 50 feet of the North 30 feet of Lot twelve (12) Block one (1) Outlook Heights Addition to Wenatchee Chelan County, washington.

(Subject to a mortgage in favor of the Wenatchee Savings & Loan Association in the amount of \$2500.00)

Dated this 21st day of August, A. D. 1934.

William H. Cassell (SEAL)

STATE OF WASHINGTON SECOUNTY OF CHELAN

On this day personally appeared before me William H. Gassell, husband of Eather Cassell, deceased, to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that he signed the same as his free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN UNDERmy hand and official seal this 21 day of August, 1934
Sam M. Sumner

(Notary Public, S. M. S.) NotaryPublic in and for the State of Mashington, residing at (Com. Exp. Jun.11, 1935) Wenatches. Filed for record at the request of Valley Title Co. September 6, 1934 et 2:49 P. M.

E. M. GILLETTE County Auditor.

No.241987.

STATUTORY QUIT CLAIM DEED.

THE GRANTORS, P. F. Scheble and Borothy E. Scheble, husband and wife, for and in consideration of one Boliars (\$1.00) convey and quit-claim to P. F. Scheble Lumb r & Box Company, a partnership consisting of F. F. Beheble and H. E. Jones all interest in the following described real satete, situated in the County of Chelan, State of Washington:

Lots 1 to 11, inclusive, Block 1; Lots 1 to 9 inclusive Block 2; lots 1 and 3 to 9 inclusive, Block 3; lots 1 to 27 inclusive, Block 4, lots 1 to 9 inclusive, Block 5, Lots 1 to 9 inclusive, Block 6; lots 3,5 and 19 to 32, inclusive, Block 7, Block 8; all in River Front Addition to Wenatches Chelan County, Washington, according to the plat thereof recorded in volume 8 of plats, page 64, records of Chelan County, Washington, except that part deeded to Washington Electric Company and lying below an elevation of 652 feet above

(This deed is given to correct a deed dated August 1, 1934, and filed for record on August 3,1934. Document #241073 in which instrument the grantes is erroneously written as a "corporation" instead of a partnership)

Dated this 4th day of September, A. D. 1934.

P. F. Scheble (SEAL)
Dorothy H. Scheble (SEAL)

DEED RECORD-No. 244

CHELAN COUNTY, WASHINGTON

STATE OF WASHINGTON }

On this day personally appeared before me P. F. Scheble and Dorothy K. Scheble husband and wife, to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

GIVEN under my hand and official seel this 6th day of September, 1934.

Sem R. Sumner

(Notary Public, S. R. S.) Notary Public, in and for the State of Washington, residing at (Com. Exp. Jun.11, 1935) Wenatches. Filed for record at the request of Chelan County Abstract Co. September 5, 1934 at 5:59 P. M.

E. M. GILLETTE County Auditor.

No. 241995. WARRANTY DEED.

THIS INDESTURE WITNESSETH, That J. H.WINDHUSEN and EDITH WINDHUSEN, his wife, pertial of the first part, for and in consideration of the sum of Twenty Five and no/100 DOLLARS, in lawful money of the United States.of America, to them in hand paid by CAPITAL SAVINGS & LOAN ASSOCIATION, a corporation, party of the second part, have Granted, Bargained, Sold and by these presents do Grant, Bargain, Sell and Convey unto the said party of the second part and to its successors and assigns the following described premises situate, lying and being in the County of Chelan, State of Washington to-wit:

An easement across property of the Grentors in Block 12, Plat of Killerdale, Chelan Gounty, Washington, for the purpose of maintaining water pipe and meter as now located thereon which pipe and meter serves the following described property also in said Block 12 immediately adjacent to the property of the Grantors, to-wit: Beginning at the quarter corner of Section 9 and 10 in township 22 North, Mange 20 East of W. M., thence running West a distance of 448 feet on the east and west center line of said section 9; thence turning an angle of 91 deg. 42 min. and running south 178 ft.to the true point of beginning; thence from said true point of beginning continuing south on the aforesaid line for 147.25 ft. thence turning an angle of 88 deg. 18 min. to the left and running east 48 ft; thence turning an angle of 91 deg. 42 min. to the left and running 147.25 feet; thence turning an angle of 88 deg. 18 min. to the left and running west 48 feet to the said true point of beginning, being located in the north half of Block 12, Plat of Millerdale, Chelan County, Washington.

To Have and to Hold the eaid premises with their appurtenances, unto the said party of the accord part, its successors and assigns forever, and they, the said parties of the first part, do hereby covenant to and with the said party of the second part, its heirs and assigns that they are the owners in fee simple of said premises, that they are free from all incumbrances, and that they will Warrant and Defend the same from all lewful claims whatsoever.

WITNESS their hands and seals this 28th day of August, A. D. One thousand hime hundred and thirty-four.

Witnesses: ...

Edith Windhusen (SEAL)
J. H. Windhusen (SEAL)

STATE OF WASHINGTON, COUNTY OF CHELAN, SS.

This certifies that on this 28th day of August, in this year of our Lord one thousand nine hundred and thirty-four, before me, a Notery Public in and for Thurston County, Stata OF Washington, personally appeared the within named J. H. Windhusen and Edith Windhusen, his wife, whose names are subscribed to the foregoing instrument, as parties thereto, personally known to me to be the individuals described in and who executed the within deed and acknowledged the same to be their free and voluntery act and deed for the uses and purposes therein mentioned.

In Witness Whereof, I have hereunto set my hand and affixed my official seal the day and yeer in this certificate first above written.

Lester L. Gelletly

(Notary Public, L. L. G.) Notary Public in and for the State of Washington, Residing at (Com. Exp. Apr.12, 1938) Wenatchee. Filed for record at the request of Capital Savings & Loan Association, September 7, 1934 at 9:14 A. K.

E. M. GILLETTE County Auditor CHELAN COUNTY, WASHINGTON

(Notary Tublic. A. N. C.) Notary Fublic in and for the State of Mashington, residing at (Com. Exp. Apr. 12, 1936.) Wenatchee. Filed for record at the request of A. I. Corbin Mar. 16, 1935, at 10:21 A. M.

E. M. GILLETTE, County Auditor.

No. 246129

P. F. SCHEBLE and MARRY E. JOHES, co-partners doing business as P. F. Scheble Lumber and Box Company, and DOROTHY SCHEBLE, wife of P. F. Scheble, and MOLLY M. JOHES, wife of Harry E. Jones, of Menatchee, Washington, Grantors, for and in consideration of ONE DOLLAR and other valuable considerations in hand paid, convey and warrant to SCHEBLE-WHIGHT LUMBER AND BOX COMPANY, a corporation, the following described property in Chelan County, Washington:

All of the buildings of every kind and description, together with all the machinery and equipment of every kind comprising the saw mill and box factory located upon the following described lots in Chelan County, State of Washington:

Lots 1 to 11, inclusive, Block 1; Lots 1 to 9 inclusive, Block 2; Lot 1, in Block 3; Lots 3 to 9, inclusive, Block 3; Lots 1 to 27, inclusive, Block 4; Lots 1 to 9, inclusive, Block 5; Lot 1 to 9, inclusive, Block 5; Lots 3 and 5, inclusive, Block 7; Lots 19 to 32, inclusive, Block 7; All of Block 8, All in the Flat of diverfront Additionto Wematchee.

This Deed includes all sawmill equipment and machinery of every kind now located upon said property and not specifically named in the Bill of Sale this day executed by first parties to second parties.

DATED this 11th day of March, 1935.

P. F. Scheble Dorothy Scheble Harry E. Jones, Molly M. Jones

STATE OF WASHINGTON, S5. (Rev. Stamp \$1.00, cancelled H.J. 3/26/35) County of Chelan.

THIS IS TO CERTIFY that on this 11th day of March, 1935, before me, the undersigned, Notary Public, personally appeared P. F. SCHEBLE and DOROTHY SCHEBLE, his wife, HARRY E. JONES and MOLLY M. JONES, his wife, to me known to be the individuals described in and who executed the foregoing instrument, and acknowledged to me that they signed and executed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

WITNESS my hand and official seal the day and year in this certificate first above

written.

A. J. O'Connor

(Notery Public. A. J. O'C.) NOTARY PUBLIC in and for the State of Weshington, residing at (Com. Exp. Jan. 9, 1936.) Wenntches. Filed for record at the request of Crollard & O'Connor, Mar. 16, 1935, at 11:32 A. M.

E. II. GILLETTE, County Auditor.

No. 246132 TAX DEED

IMPLICATION DISTRICT ADDRESSMENTS

THIS INDENTURE made and entered this 3rd day of Jahuary, 1935, between Bessie Lewis, Treasurer of Chelan County, in the State of Washington, and Ex-Officio Collector of Chelan River Irrigation District, party hereto of the first part, and Chelan River Irrigation Dist. of Chelan, Washington, party hereto of the second part, WITHESSETH:

THAT WHEREAS: The Board of Directors of the Chelen River Irrication District DISTRICT of Chelen County, State of Washington, by virtue of and in conformity with the acts of the Legislature of the State of Washington, providing for the organization and fovernment of irrivation districts within said state, and the acts amendatory thereof and supplemental there to, did, in the manner required by law, levy an assessment for the bond fund, the contract fund and the expense fund of said District for the year 1935, upon all the lands in said district in perpention to the benefits accruing to the lands so expensed; and did equalize said assessment at the time and place and in the manner provided by law after publishing notice of such equalization in a newspaper published in such of the counties communished and District;

D MAJING HORNEW

DEED RECORD-No. 275

CHELAN COUNTY, WASHINGTON

STATE OF WASHINGTON,) - (Doc. Stamps 55 cents cancelled SEP 30, 1940 W H Cc)
COUNTY OF Chelan.) - (Con., " 50 " " FEP 30,1940 W H Cc)

On this 29th day of Frbruary, A. D. 19/40, before me personally appeared Lester W. Lewis and Warren H. Bean, to me known to be the President and Scoretary, respectively, of the corporation that executed the within and foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corpo ation, for the uses and purposes therein Eentiched, and on eath stated that he was authorized to execute said instrument and that the seal affixed is the corporate seal of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Joseph L. Hughes

(Notary Public. J. L. H.) Notary Public in and for the State of Washington, residing at (Com. Exp. May 22, 1942.) Wannatchee.

FILED for record at the request of Valley Title Co., Inc., Sep. 30, 1940, at 4:14 P. M.

MADGE CUSHING, County Auditor.

No. 317375 QUIT CLAIM DEED

THIS INDENTURE WITNESSETH, That P. F. SCHEBLE and DOROTHY M. SCHEBLE, his wife, as individuals, as a community, and as co-partners in ?. F. Scheble Lumber & Box Company, parties of the first part, for and in consideration of the sum of One Dollar and other valuable consideration BOLLARS lawful money of the United States of America, to them in hand paid by HARKY E. JONES, party of the second part, do by these presents, remise, release, convey and quit claim unto said party of the second part, his hoirs and assigns, all interest of the said parties of the first part in and to the following described real moperty, situate in Chelan County, State of Washington, towit:

Lots 1 to 11, inclusive, in Block 1; Lots 1 to 9 inclusive, in Block 2; Lots 1 and 3 to 9, inclusive, in Block 3; Lots 1 to 27, inclusive, in Block 4; Lots 1 to 9, inclusive in Block 5; Lots 1 to 9, inclusive, in Block 6; Lots 3 and 5 and 19 to 32, inclusive, in Block 7, and all of Block 8, Riverfront Addition to Wenarchee.

This deed is given to correct one certain deed executed July 13, 1939, filed for record on August 10, 1939, and recorded in Book 270, at page 123, of deed records, in the office of the Auditor of Chelan County, Washington.

TO HAVE AND TO HOLD, The said premises, with all the appurtenances, unto the said party of the second part, and to their heirs and assigns forever.

IN WITHTSS WHEREOF, The said parties of the first part have hereunto set their bands and seals the 30th day of September, 1940.

Signed, Sealed and Delivered)
in Presence of ...

P. F. Scheble (Scal)
Dorothy M. Scheble (Scal)

STATE OF WASHINGTON,)
County of Chelan.)

I, the undersigned, a Notary Public in and for the said State, do hereby certify that on this 30th tay of September, A. D. 1940, personally appeared before me, P. F. Scheble and Dorothy M. Scheble, his wife, to me known to be the individuals, described in and who executed the within instrument, and acknowledged that they signed and realed the same as their free and voluntary act and deed for the uses and purposes herein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Joseph L. Hughes

(Notary Public. J. L. B.) Notary Public in and for the State of Washington, residing at (Com. Exp. May 22, 1942.) Wenatchee.

FILED for report at the request of Valley Title Co., Inc., Sep. 30, 1940, at 4:16 P. M.

MADGE CUSHING, County Auditor.

(LLAL)

Geo. H. Jickson, As Supervisor of Banking for the State of

Washington, liquidating Chelan State Sank, Chelan, bushington.

STATE OF WSHINGTON,) ss (Con. Stamp 50 cents cancelled G.H. J. 9/23/38)

County of Thurston,) THIS IS TO CERTIFY, That on this 26th day of September, A. D. 1938, before me, a Notary Public in and for the State of Washington, duly commissioned and sworn, ersonally came Howard H. HARLEN CEO. H. JACASON, Supervisor of Manning for the State of Washington, to me known to be such supervisor, liquidating said wank, and the individual described in and who executed the within instrument and acknowledged to me that he signed and sealed the same as his free and voluntary act and deed, for the uses and jurposes therein mentioned.

WITNESS my hand and official seal, the day and year in this certificate first above written.

G. M. Lewis

(Notary Public. G. M. J.) Notary Public in and for the State of Washington, reciding at (Com. Exp. Jul. 3, 1341.) olympia.

EXEM TIU. CERTIFICATE

August 9th, 1939.

THIS IS TO CERTIFY That the attached Special Warrenty Leed is/are boild transforred (Live date of deed conveyance Deed dated June 7, 1839, Geo. H. Jackson, as Eupervisor of Lanking for the State of and names of grantor and grantee)
Washington, liquidating Chelan State Bank, of Chelan, Washington, Grantor; and C. R. Darnell, Grantee, is/are being made jursuant to the Hiquidation of the Chelan State Bank of Chelan, Washington, an insolvent bank, the assets of which are insufficient for the full payment of depositors. The Commissioner of Internal Ecvenue has ruled that under Section to of the Act of March I, 1879, no stamp tax liability will be incurred by the parties to such transaction. No. federal stamps are therefore attached.

HOWARD H. HANGEN LEO. H. JACKSON, Supervisor of 'anking, Liquidating the Chelan State bank, of Chelan, Washington,

by C. Ł. Johnson,

Special Deputy Supervisor in charge of Liauldation.

NOTE: For Fraudulent Une \$10,000 Plac and Impresonment. (S e Section 1114 Ecvenue Act of 1326.)

FILED for record at the request of Valley Title Co., I.C., Aug. 10, 1939, at 7:20 A. M.

LADUE & CULHI...G, County Auditor.

No. 301789 QUIT CLAIM LELD,

THIS INDENTURE WITHELDETH, That I. F. Scheble Lumber "Box Company, a partnership consisting of P. F. Scheble and H. E. Jones, party of the first part, for and in consideration of the sum of TEN AND NO/100 DOWNARS, lawfil money of the United States of America, to them in hand paid by Harry E. Jones, party of the second part, does by these presents remise, release, convey and quit claim unto laid party of the record, art, his beins and assigns, all interest of the said party of the first ,art 1 and to the following escribed real projecty, situate in Chelan County, State of Washington, towits

Lots 1 to 11, Block 1, Lots 1 to 3, Block 2, Lots 1 and Lots 3 to 9, Block 3, Lots 1 to 27, Lock 4, Lots 1 to 9, Block 5, Lots 1 to 3, Lock 6, Lots 3 and 5 and lots 13 to 70, Block 7, all of Block 8, River Front Addition to wenatchee.

TO HAVE AND TO HOLL, The said premises, with all the appartenances, unto the said sorty of the second part, and to his helps and assigns forever.

IN WITNESS WALLBOOF, The said party of the first part has here, to set its hand and seal the 13th day of July, 1939.

Signed, Scaled and Iclicated) in Presence of ...

P. F. Cohecle Lumber & Box Company, a partnership consisting of i. s. tcheble and i. i. Jones

> P. F. Concole Lorothy ... Foreble (Scal) d. L. Jones Holly H. Jones

91217

DEED RECORD-NO. 270

CHELAN COUNTY, WASHINGTON

I, Dorothy Snodgrass, a Notary Public in and for the said State, do hereby certify that on this late day of July, A. D. 1939, personally appeared before me P. F. Febeble and Dorothy M. Scheble, his wife, = = H. E. Jones and Molly M. Jones, his wife, to me about to e the individual_ escribed in and who executed the within instrument, and acknowledged that they signed and scaled the same as their free and voluntary act and deed for the uses and purposes herein mentioned.

IN MITRESS WHEREOF, I have dereunto set my hand and affixed my official scal the day and year in this certificate first above written.

- Lorothy Endigness

(hotary fuelic. E. S.) hotary fublic in and for the State of Washington, residing at Wenst-(Com. Exp. Aug. 1841.) chee.

FILLD for record at the request of Harry E. Jones, Aug. 10, 10%, at 3:54 P. H.

MALCE CULHIAG, County Auditor.

No. E01306 EXTERSION AGRICAENT

This mukelment, Made and entered into this 18th day of June, 1939, by and letween dina Flaa, as Party of the First lart, and h. A. Caston and Ruby T. Gaston, his wife, and h. C. Lovce and Irene C. Bovee, his wife, as Parties of the Second Part, Miller Califfe.

Whereas, the Partice of the eccound Part herein did on or about May 21, 1925, elecute and deliver one certain promissory note for the sum of \$1350.00 to the Party of the First Part herein and the said R. H. Gaston and Ruby T. Gaston, his wife, did execute and deliver a certain mortgage to secure said note, which mortgage was filed and recorded in the office of the County Auditor of Chelan County, Washington, on the 12th day of June, 1935 in rook 233, page 427, Mortgage records of said County, and

Whereas, the said R. n. Caston and Huby T. Saston, is wife, are still the owners of the land covered by said mortgage, and

Whereas said promiseory note and the said morthage are low part due, and the parties of the second part herein desire an extension in time of payment of said unpaid indebtednesses secured thereby,

Now, Thirdford, IT IS minusy added by and between the justice mercto that the sum of \$1350.00, together with interest at 1% from April 1, 1039, is the unpaid balance of mid indebtedness and that the parties of the second part herein are personally liable therefor and agree to pay the same together with interest at the rate of 5% per annum from April 1, 1039, as follows: Interest undeferred balances of principal shall be paid quarterly, and the time of permitter of principal is hereby extended to July 1, 1041, provided all related from said premitter it effect in the mortage shall be applied first on taxes and insurance, then on the interest and principal of a prior first mortage in favor of during C except and flows 7. Greapeau, als wife, and the balance thereof on interest and principal of the mortage to the farty of the limit fact a rein.

The Party of the First Part Perelmagnees to the extention in the time of payment of raid indebtedness as aforeseid.

It is further agreed that the pelaci; all sum of raid indebtedness may be declared due for default in the payment of interest or principal when due, or for the violation of any covenant contained in said mortgage, and that in each and every rapect the said promissory note and the said mortgage shall stand and remain in fall force and effect, an originally written, being modified only as above provided.

IN MITHEST WHEREAGE, the said parties more to have nerounted set their hones and scale the day and year first above written.

Gina B. Flaa,
Party of the First Part,
R. m. Jacton
Ruby T. Gaston
L. G. rovee,
Partics of the Geood Part.

STATE OF MASHELOTOM,) ss COUNTY OF CHELAN.)

THIS IS TO CENTIFY that on this with day of June, 1989, refore me, the undersigned, a Notary Public in and for the State of whomington, personally appeared dina fixe, to me known to be the individual described in and who executed the within instrument, and meknowledged to me that she executed the same freely and voluntarily for the ourgoest therein mentioned.

•

in Mid But in wow. Lee Book 267, Base

end socis the day and year first above written.

Signed, scaled and delivered in presence of E. J. Bainard (SEAL)

O. P. Barrows G. S. Bainard (SEAL)

State of Washington)
County of Cholan

THIS IS TO CERTIFY, that on this 3rd day of July A. D. 1911, before me O. P. Barrows a Notery public in and for the State of "ashington, dulys commissioned and sworn, personally came E. J. Bainard and G. S. Bainard, her husband, to me known to be the individuals described in and who executed the within instrument, and acknowledged to me that they signed and sould the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

WITHESS my hand and official scal the day and year in this certificate first above written.

O. P. Berrows

COMMISSION EXPINER NOTARY PUBLIC

Notery public in and for the State of Washington, residing at Wenatchco, Wash.

Filed for record at the request of J. W. Bonar Sept 2, 1911 at 10; 50

Filled Hardesty

No 40230

THIS INDENTURE, Made the 18 day of August 1911 between The Wenatchee Development Company, a corporation duly incorporated, organized and existing under and by virtue of the laws of the State of Washington, the party of the first part, and REMI GREENBERG of Wenatchee, Washington, the party of the second part;

WITNESSETH: That the said party of the first part, for and in consideration of three hundred (\$300) Dollars, gold coin of the United States, to it paid by the said party of the second part, does hereby grant, bargain, sell, convey and confirm unto said party of the second part, and to his heirs and assings forever, the following described lot, piece or parcel of land, lying and being in the County of Chalan, State of Washington and particularly bounded and described as follows, to-wit:

Lot two (2) block three (3) River Front Addition to Wenntohee, as said addition is now on file and of record in the office of the County Auditor of said County.

Together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining, and also all the estate, right, title and interest at law and in equity of said party of the first part, therein or thereto.

TO HAVE AND TO HOLD the said premises to the said party of the second part, and to his heirs and assigns forever.

And the said party of the first part and its successors and assigns shall and vall warrant and defend by these presents the said premises unto the said party of the second part his heirs and assigns against the lawful claims and demands of all persons claiming or to claim by, through or under said party of the first part; subject, however, to all taxes and assessments accruing or to accrue against said premises or any part thereof, all of which taxes and assessments the party of the second part hereby assumes, and also subject to any claims of the state or any one claiming by, through or under the State to such part ('if any) of said premises as may lie below the line of ordinary high water in the Columnia ri ver.

. The said party of the first part hereby limits the covements of this deed to the one herein expressed and excludes all covenants arising by implication of law.

IN VITNESS WHEREOF, the said party of the first part has caused these presents to be subscribed by its President and Socretary, thereunte duly authorized, and its corporate name and seal to be hereunte affixed the day and year first abo we written.

Signed, sealed and delivered in presence of

The wenatchee Develorment Company.
By Thomas Burke, Freeldent
And C. W. Coulter, Secretary.

(Corporate SEAL)

W. H. Llewellyn

State of Washington)
County of King) ss

On this 18th day of August A. D. 1911 before me personally appeared Thomas Burke, and C. W. Coulter, to me known to be the President and Secretary of the Corporation that

executed the within and foregoing instrument, and acknowledged the said instrument to be t voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they were authorized to execute said instrument and that the seal affixed is the corporate seal of said corporation.

IN WITHESS WHEREOF, I, have hereunto set my hand and affixed my official seal the day and year first above written.

A Lewellyn .

W. H.. Llewellyn

Notary public in and for the State of Washington, residing at Seattle.

Filed for record at the request of Beni Greenburg Sopt 2, 1911 at 12 M

Polinty Auditor.

No 40232

THE GRANTORS LOUIS BATTYANY and MARY BATTYANY husband and wife, For and in consideration of One (\$1.00) Dollar Dollars in hand paid, convey and warrant to O. A. Miller the following described Real Estate:

For road purposes a strip of land ten (10) feet wide, commencing at the Peshestin Ditch right of way on the Morth side of the SEt of the Met of Section 7 Township 23 Range 19 EWM and extending west along the North line of said SEt of the NEt to a point 900 feet east of the said SEt of the NEt to a point 900 feet east of the said SEt of the NEt which point is on the east of the lands now owned by 0. A. Miller. It is expressly provided that the use of the above described strip of land for road purposes shall not interfere with the trees now growing on the above described land.

Situated in the County of Chelan, State of "ashington.

Dated this lothyday of June 1911. Witnesses:

Louis Battyany (SEAL) .Mary Battyany (SEAL)

State of Washington)

County of Stevens) ss

I, R. J. Stephenson, a Notary public do hereby certify that on this 27 day of July 1911, personally appeared before me Louis Battyany and Mary Battyany, husband and wife, to me known to be the individuals described in , and who executed the within instrument and acknowledged that they signed and sealed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

Given under my hand and official scal this twenty seventh day of July A. D. 1911.

R Stephenson Rotaly Purilic Light 29, 1912.

R. J. Stophonson

Notary public in and for the State of Washington, residing at Clayton.

Filed for record at the request of O. A. Miller, Sept 2, 1911 at 2:10

Produity Lucitor

No 40237

THIS INDENTURE, Made this 28th day of July in the year of our Lord one thousand nine hundred and eleven Between S. H. KINNEY, a bachelor, the party of the first part, and H. M. LUTTERLL party of the second part;

WITHESSETH: That the said party of the first part, for and in consideration of the sum of six thousand dolk rs, lawful money of the United States, to him in hand paid by the said party of the second part, the receipt whereof is hereby noknowledged, does by those presents, Grant, bargain, sell, convey and confirm unto the said party of the second part, and to his heirs and assigns, the following described tract, lot or parcel of land, situate, lying and being in the County of Chekan, State of "ashington, particularly bounded and described as follows, to-wit:

The west half (WH) of the southwest quarter (S. W. 1) of the Northwest quarter (H. W. 1) of section sixteen (16), Township twenty four (24), North of Range Eighteen (18), E. W. H. excepting a strip of land twenty (20) feet wide along the south line of said tract for read purposes; and also the following described tract situate in Chelan County, State of Washington, to-wit:

The west half (Wh) of the southeast quarter (S. E. 1) of the Northwest quarter (N. W. 1) of section sixteen (16) Township Twenty four (24), North of Hange Eighteen (18) E. W. M., excepting a strip of land twenty (20) feet wide along the south line of tract last above excepting a strip of land ten (10) feet wide along the cast line as a read purposes, and excepting a strip of land ten (10) feet wide along the cast line

CHELAN COUNTY, WASHINGTON

OF ATOM

No. 205252 EXECUTOR'S DEED

THIS INDENTURE, made the 6th., day of January, A. D. 1931 by and between J. H. Miller, the duly appointed, qualified, and seting executor of the estate of Ben Greenberg, deceased, the party of the first part and the Washington Electric Company, a Maine corporation, the party of the second part, witnesseth:

THAT WHEREAS on the 5th., day of January, 1951 the Superior Court of Chelan County, State of Washington, made an order in the matter of the estate pending, authorizing and direc ing the party of the first part to convey to the party of the second part certain real estate of said deceased, which real estate is situated in gaid County and State and is particularly described in said order of conveyance, reference to which is hereby made, and a certified cop of which is hereto annexed.

NOW THEREFORE, the said J. H. Miller, executor of the estate of said Ben Greenberg, deceased, party of the first part, pursuant to the order last aforesaid, and for and in consideration of said sum of twenty-five hundred dollars (\$2500.00), lawful money of the United States, to him in hand paid by said second party, the receipt whereof is hereby confessed, has bargained, granted, sold, and conveyed, and by these presents does grant, bargain, sell and convey unto said second party, his heirs and assigns forever, all the right, title and in terest of said deceased, in and to all that certain real property of said deceased, situated in Chelen County, State of Washington, and particularly described as follows, to-wit:

Lot two (2), Block three (3), of River Front Addition to the city of Wenatchee, TO HAVE AND TO HOLD ell and singular the aforesaid premises, together with the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining, unto said second party, or its assigns forever.

IN WITHERS WHEREOF, said first party, executor aforesaid, has hereunto set his hand and seal the day and year first above written.

(Seal) J. H. Miller Executor of the estate of Ben Greenberg, deceased.

STATE OF WASHINGTON

COUNTY OF CHELAN

Be it remembered that on this 6th., day of January, A. D. 1931 before me, a Motory Public in and for said State, personally appeared J. H. Miller, known to me to be the person described in the foregoing instrument and whose name is subscribed thereto as the executor of the estate of Ben Greenberg, deceased, and acknowledged to me that he as such executor; exe cuted the same freely and voluntarily for the uses and purposes herein mentioned.

IN MITNESS WHEREOF, I have hereunto set my hand and affixed my Motorial scal the day and year in this cartificate first above written.

L. L. Mathewa

(Motary Public, L.L.M.) Metary Public in and for Chelan County, State of Washington, resid (Com. Exp. Sep 12 1935) ing at Wenatchee. Filed for record at the request of Weshington Electric Co. Jenuary 7, 1931 at 4:18 P. M.

> ILA GREEN County Auditor.

#269

No. 205253 TASIMENT

The Grantors, Earl Fruit Company, a corporation, are the owners of the following described interest in property located in Shelan County, Washington, to-wit:

An essement for the creation and maintenance of a pipe line along the West 10 feet of Block 1 Gulick's Orchard Tracts in Sections 26 and 27, Township 22 M., Range 21 E.W.M., together with the right to maintain a pumping plant on the banks of the Columbia Biver.

Now therefore, the said Grantors, for themselves, their heirs, representatives, suc cessors and assigns, for and in consideration of the sum of OME Hundred Fifty and no/100 Dollars (\$150.00) in hand paid, hereby give, grant and convey unto Washington Bleetric Company, a Maine corporation, its successors and assigns, the perpetual right to impound the waters of the Columbia River and by the construction and/or operation of a damtherein at or near Rock Island, Weshington, to raise the water level of the Columbia River and the water table under and over the property herein above described and to damage said property and rights therein together with the improvements and appurtenances thereunto belonging by overflow, eresion, seepage end/or similar causes by such artificial relaing of the waters and water table to we

CHELAN COUNTY, WASHINGTON

ment, the receipt of which is hereby acknowledged: and Two hundred Forty Six and 18/100 (\$246.18) Dollars, with interest at the rate of 7 per cent. per annum, as follows: Beginning on the ... day of ... 19.. and on the same day in each and every month thereafter the sum of \$... or more. . interest on the principal remaining unpaid on said day and the balance on or before earch 15, 1935, regardless of loss, destruction or damage to any of the improvements thereon

And the buyer hereby agrees to seasonably pay all taxes and assessments which may be hereafter imposed on said premises, and to keep the improvements thereon insured against loss by interest insurance company in the sum of \$... with loss, payable to seller and buyer as their interests appear, all policies to remain with the seller.

And in the event that the buyer shall ake default in any way of the covenants herein contained, or shall fail to make the payments aforesaid at the times specified, the times of rayment being declared to be the essence of this agreement, then the seller may declare this agreement null and void.

The seller agrees that they buyer may use and occupy said premises during commises with the terms hereof, but if default of any condition herein shall be made and the buyer is permitted to remain in possession, the buyer shall be considered to be a tenent of said premises from month to month and shall be entitled to only such notice to vacate as is provided by law, end such notice to vacate shall be deemed to be a declaration of the termination of this contract; all improvements placed thereon shall become a part of said real estate, and shall not be moved or altered without the written consent of the seller.

When the buyer shall have paid the several sums of money aforesaid, then the celler will deliver to the buyer a deed conveying said premises in fee simple, with the usual covenants of warranty, excepting from such warranty such items as the buyer has assumed and agreed to pay.

SELLER AGREES TO FRUNTSH TITLE INSURANCE.

This agreement shall be binding upon and shall inure to the benefit of the successors in interest of the parties hereto.

IN WITNESS WHEREOF, The buyer and the seller have signed and delivered this agreemen in duplicate this 15th day of March, 1934.

Witnesses: ...

C. E. Life Adeline Life

Buyer
LINERS AND MERCHANTS BANK,
Chelan, Wesh.
by Herbert C. Ogden
Casher. Seller

STATE OF WASHINGTON, County of Chelen)ss.

I, the undersigned, a Notary Fublic in and for the said State, do hereby certify that on this 15th day of Earch, 1934, personally appeared before me Herbert C. Ogden, Cashier of Miners and Merchants Bank, to be known to be the individual described as seller and who executed the within, and acknowledged that he signed and sealed the same as his free and woluntary act and deed for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

L. E. Radley

(Notary Public, L. E. A.) Notary Public in and for the State of Washington, residing at (Com.Exr. May 15, 1937) Chelan. Filed for record at the request of C. E. Life, August 3, 1934 at 11:46 A. M.

E. M. GILLETTE County Auditor.

No. 241073.

STATUTORY WARRANTY DEED.

THE GRAITORS, P. F. SCHEHLE and DOROTHY M. SCHEHLE, husband and wife for and in consideration of ONE Dollar (\$1.00) in hand paid, convey and warrant to P. F. SCHEHLE LUMBER & BOX CO., a corporation, the following described real estate, situated in the County of Chelad State of Washington:

Lots 1 to 11, inclusive, Block 1; Lots 1 to 9, inclusive, Block 2; Lots 1 and 5 to 9, inclusive, Block 3, Lots 1 to 27, inclusive, Block 4; Lots 1 to 9 inclusive, Block 5, Lots 1 to 9 inclusive Block 6; Lots 3, 5 and 19 to 32, inclusive Block 7; Block 8; all in River Front Addition to Wenatchee, Chelan County, Washington, according to the plat thereof recorded in volume 2 of -lats, page 64, records of Chelan County, Washington, EXCEPT that

and the second of the second

CHELAN COUNTY, WASHINGTON .

part deeded to Washington Electric Company and lying below an elevation of 632 feet above see level.

Dated this lat day of August, A. D. 1934.

'SEAL' P. F.Scheble Dorothy E. Scheble (SEAL)

STATE OF WASHINGTON) COUNTY OF CHELAN

On this day personally appeared before me P. F. Scheble and Dorothy M. Scheble, husband and wife, to me known to be the individuals described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntery act and deed, for the uses and purposes therein mentioned.

Given under my hand and official seel this 3 day of August, 1934.

Isabelle E. Byron

(Notary Public, I. M. B.) Notary Public in and for the State of Washington, residing at (Com.Exp. Jan.1, 1938) Wenatchee Filed for recordat the request of P. F. Scheble, August 3, 1954 at 2:01 P. M.

> E. M. GILLETTE County Auditor.

No. 241093.

DEED

THIS INDENTURE, Made the 30th day of April, Nineteen Hundred and thirty four BETWEEN FAMNIE S. BASSETT of Canton, St. Lawrence County, New York, party of the firs part, and CHARLES D TAYLOR of 5911 West Pico Street, Los Angeles, California, marty of the second part.

WITHESETH, that the party of the first part, in consideration of One Dollar (\$1.00) lawful money of the United States, to her paid by the party of the second part, does hereb grant and release unto the party of the second part, his heirs and assigns for ever, all the .following described real estate;

The mortheast quarter of the Southwest quarter of the southeast quarter of Section Six (6) Township Twenty-six (26), R. Hange Seventeen (17) S. W. M. Conteining Ten (10) seres more or less, subject to the use of a strip Twenty (20) feet wide on the south side of said described land for road purposes by the public and situated in the County of Chelan, State of Washington.

Being the same premises conveyed to the first party by Heman W. Howe, by deed dated Jany. 12th 1931 and recorded of the Chrk of the County of Chelan, State of Washington on the 16th day of Jeny. 1951. in Book 223 of deeds at rage 327.

TOGETHER with the appurtenances and all the estate and rights of the party of the first pert in and to said premises,

TO HAVE AND TO HOLD the premises herein granted unto the party of the second part his heirs and assigns forever,

AND said Fannie S. Bassett covenant as follows:

FIRST: That the party of the second part shall quietly enjoy the said premises. SECOND. That said Fannie S. Bassett will forever WARRAIT the title to said premises. IN WITNESS WIERECT, the party of the first part has hereunto set her hand and seal the

dpy and year first above written.

Fannie S. Bassett (L.S.)

(Documentary stamp .50 ¢ cancelled C. D. T.

STATE OF HEW YORK COUNTY OF ST.LAWRENCE

In Presence of ...

Town of Canton)

On this 50 day of April Mineteen Hundred and thirty-four before me, the subscriber, personally appeared Fannie S. Bassett to me personally known and known to me to be the same person described in and who executed the within Instrument and she duly acknowledged to me that she executed the same.

(N. P. SEAL)

Pearle M. Downey

Notary Public.

STATE OF NEW YORK St.Lawrence County Clerk's Office

I, WELLY W. HAILE, Clerk of the County of St. Lawrence and Clerk of the Supreme and County Courts, which are Courts of Record in and for said County do hereby certify: That Peerle M. Downey Esquire, whose name is subscribed to the certificate of proof or acknowled

The CRUMTOR, PUGET SOURD POWER & LIGHT COMPANY, a corporation, for and in consideration of the sum of Two Thousand Dollars (\$2,000.00) to it in head paid by E.T. PYBUS COMPANY, Grantes, heroby sells and conveys to said Grantes the following described property situate in the City of Wenntchee, County of Chelan, State of Washington, to-wit:

> Lot 2, Block 3, and Lots 8, 9, 10, 11 and 12, Block 7, All in River Front Addition to Wonntchee.

All the above described property is conveyed subject to the following easements, reservations, exceptions and interests hereby excepted and reserved in said property to Grantor, its successors or assigns, namely:

The perpetual right of the Puget Sound Power & Light Company, and its successors and assigns of its Rock Island Hydro-electric project to impound the enters of the Columbia River by the construction, maintenance and operation of a hydro-electric project and dan therein, as now constructed and as hereafter to be raised, onlarged and completed, at or near Rock Island, Washington, and thereby to raise to various levels, at various times, the water lovel of the Columbia River and the water table under and over the property hereinabove described, and without recourse on the Grantor, its successors and assigns for so doing, to inundate or damage said property, together with all improvements and personal property of any kind that may be kept or maintained by the Grantee, its successors and assigns, upon said premises, and including any damage to or contamination of the water supply appurtenant to said promises, all as may be caused by overflow, erosion, scopage and/or similar causes, by such artificial raising of the water of the Columbia River and the water table under and upon said lands, together with the right of ingrees and egress ever and across said lands for the purposes incidental to the maintenance and/or operation of the Grantor's Rock Island hydro-electric project.

The Grantor, for itself, its successors and assigns, warrants the title to said property only against the claims of every person whatsoever claiming by, through or under it, and not otherwise.

DATED October 26. 1951.

PUGET SOUND POWER & LIGHT COMPANY









1 100 452 PAGE 1

STATE OF HAPHTHAM OF CHINO

On this 222 day of Ostober, 1951, before me personally appeared

C. PATRICK JOHNSON, to me known to be the Vice President, and MALTER S.

ZACHARY, to me known to be the Assistant Secretary of FULT SOUND POSER &

LIGHT COMPANY, the corporation that executed the within and foregoing

instrument, and each acknowledged the said instrument to be the free and

voluntary act and deed of said corporation for the uses and purposes therein

mentioned, and each on eath stated that he was authorized to execute said

instrument, and that the seal affixed is the corporate seal of said corporation.

IN WITHESS WHENDOF I have hereuhte act my hand and affixed my official

in witness managed training and year above written.

NOTARY PUBLIC In and for the State of Washington, residing at Scattle

£52643

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RECORDED S

RECORDED S

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FILED FOR RECORD

VARRANTY DEED

200K 541 PASE 096

The Grantor, E. T. PYEUS COMPANY, a Mashington corporation, for and in consideration of CHE DOLLAR (\$1.00) and other good and valuable consideration in hand paid, conveys and warrents to the CITY OF WHATCHES, a municipal corporation, the following described real estate, situated in the County of Chelan, State of Washington, to wit:

Lot 2 of Block 3, except the southerly 15 feet of the westerly 230 feet, and Block 5, all situate in River Front Addition, Venatchee, Chelan County, Vashington.

Dated this 14 day of October, 1955.

E. T. PIEUS COMPANY, a corporation

CASTRODON, Son, Tros

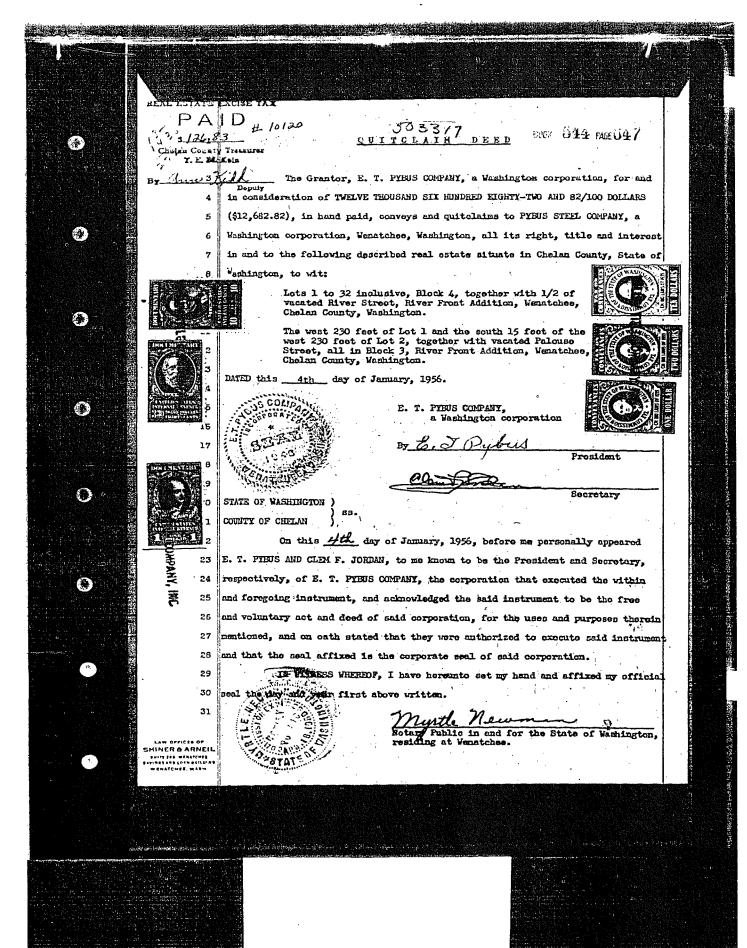
COUNTY OF CHELAN

WITHESS my hand and official scal horsto affixed the day and year first

above written.

Hotary Public in and for the State of Washington, reality at Wenatches.

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546839 STATE OF WASHINGTON

BOUX 593 PAGE 135

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the convey unio. the City of Menatches, a municipal corporation, its circ and assigns, the following described xisks.or shore lands openhardestolass, situate in front of the try of Menatches In Chalan	a manalus	of which is hereby acknowledged the State of Washington days hereby grant haven'n sell
All shore lands, owned by the State of Washington, situate in front of the front of, adjacent to or abutting upon the following described uplands, to with the portion of lot four (4), section three (3), township twenty-two (22) north, range twenty (20) east W.M., lying south of the cancer line of 5th Street in the City of Wenatchee); lots five (5) and six (6) of said saction three (3); lot one (1), section tan (10), and that part of lot three (3) section eleven (11), lying north of the south line of 10th one (1) of section ten (10), section ten (10), and that part of lot three (3) section eleven (11), lying north of the south line of 10th one (1) of section ten (10), produce easterly across said lot three (3) of section eleven (11), all in township twenty-two (22) nather (22) north, range twenty (20) east, W.H. This deed is issued in lieu of and supersedes that deed issued July 7, 1920 in accordance with the provisions of Chapter 17, Session Laws of 1917 and recorded in the office of the Commissioner of Public Lands in Volume 14 at Page 320, State Record of Tide and Shore Land Deads. This above secretical lands are said subject to all the provisions of Chapter 17, Session Laws of the Commissioner of Public Lands in Volume 14 at Page 320, State Record of Tide and Shore Land Deads. The above secretical lands are said subject to all the provisions and Chapter 21 are the commissioner of Public Lands in Volume 14 at Page 320, State Record of Tide and Shore Land Deads. The above secretical lands are said subject to all the provisions and Chapter 21 are the lands are the commissioner of the Santa Lands and Shore Lands are the commissioner of the Santa Lands and Shore Lands are the said and Shore Lands	•	
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TO HAVE AND TO HOLD the said premises, with their appurtenances, unto the said City of Menatchee, a municipal corporation, its heirs and assigns forever. WITNESS the Seal of the State, affixed this // day of Jennany, 1959 FEE Seal of the State, affixed this // FILED FOR RECORD Class Corporation FOR THE OFFICE SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEA	The above	re described lands are sold subject to all the provisions of Chapter 213 of the Session Laws of IET, to which reference is hereby the shall be as binding upon the grantes and any successor in interest of said grantes in though set out at sangth herein; and to any lien or liens that may arise or be created in consequence of or pursuant to the provisions of an act of the Legislature
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THE GRANTOR, PYBUS STEEL COMPANY, a Washington Corporation, for and in consideration of TEN AND NO/100THS DOLLARS (\$10.00) and other valuable considerations in hand paid, conveys and warrants to the City of Wenatchee, Washington, the following described real estate, situated in the County of Chelan, State of Washington:

The West 230 feet of Lot 1 and the South 15 feet of the West 230 feet of Lot 2, Block 3 of River Front Addition to Wenatchee, together with that portion of vacated Palouse Street described as follows:

Beginning at the Southwest corner of said Lot 1, Block 3; thence North 61°10'07" East along the southerly line of said Lot 1, a distance of 190 feet to the TRUE POINT OF BEGINNING. Thence South 73°49'19" East a distance of 56.56 feet; thence North 28°48'46" West to the southerly line of said Lot 1; thence South 61°10'07" West along the southerly line of said Lot 1 to the TRUE POINT OF BEGINNING.

FEE 3.00 City of Frankler '84 Oct 25 AM 10 17 E 537 584

Dated this 25 day of Tuly . 1984.

PYBUS STEEL COMPANY

REAL ESTATE EXCISE TAX

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STATE OF WASHINGTON)

Sounty of Chelon | SS

On this of day of July , 1984, before me personally appeared The Partie , to me known to be the Errenve Vice President, and Robert L. Tracer , to me known to be the Secretary, of the corporation that executed the within and foregoing instrument, and each acknowledged that said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and each on oath stated that they were authorized to execute said instrument, and that the seal affixed is the corporate seal of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year above written.

NERP

Notary Public in and for the State of Washington, residing at:

LENORA MCKINNEY
Notary Public of New Jersey
My Commission Expires Feb. 16, 1286

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Mo. 188768
DEPARTMENT OF PUBLIC
LANDS
Office of Commissioner

STATE OF WASHINGTON

I, C. V. Savidge, as Commissioner of Public Lands in and for the State of Washington, do hereby certify that the attached instrument is a full, true and correct copy of that certain order dated January 15, 1930, granting to the Sashington Electric Company the right to overflow the bed and shorelands of the Columbia River in certain townships in Chelar and Bouglas Counties, as the same appears as part of the files under application No. 13460.

WITNESS my hand and official seal this 26th day of February, A. D., 1930. (STATE SEAL)

Commissioner of Public Lands.

795

DEPARTMENT OF PUBLIC LANDS
Office of Commissioner

January 15, 1930.

In Re Application No.18460 by the Washington Electric Company to overflow the bed and shorelands of the Columbia River in certain townships in Chelan and Dougles Counties.

ORDER

It appearing to the Commissioner at this time that application No.18460 has been filed in this office by the Mashington Electric Company for an easement for right to overflow the bed and shorelands of the Columbia River through township 22 north, ranges 20. 21 and 22 east, township 23 north, range 20 east, section 5 and part section 4, township 21 north, range 22 east, and part of section 35, township 24 north, range 20 east, in Chelan and Douglas Counties; that eaid application was filed under the provisions of Section 102, Chapte 255 of the Seasion Laws of 1927, which provides for the overflowing of state lands; and

It further appearing that the application is in the form of a letter which set forth the plan to erest a dam near the east line of section 5, township 21 north, range 28 east, and to overflow and inundate the shorelands hereinafter described for the purposes of maintaining a storage basin for the development of a hydro electric plant at the location commonly known as the Rock Island Site; that the applicant has obtained from the State Hydrau lie Engineer the proper permits for the use and storage of eater from the Columbia River for the development of mid plant and has made application to the Federal Fower Commission for a permit covering said project; and

It further appearing that the amount of damages resulting to the state by the exercise of the right to overflow and inundate seid lambs does not exceed the sum of \$50,582 50, that this amount is determined as required by statute and includes the value of the land to be overflowed as well as all damages of adjoining lands of the state resulting from such overflow and inundation; and the Commissioner being fully advised, it is, therefore

ORDERED and DETERMINED that the demage to the land included in said application No. 13460 together with all demage to or upon the land remaining and including all damage suffered by the state by the overflow and inundation of the bed and shorelands of the Columbia River as hereinsfter more fully described, he and the same is hereby fixed at \$30,582.50; that said amount together with the statutory fee for issuance of the certificate has been paid by the applicant; that for the purpose of erecting, constructing, maintaining or operating a water power plant, reservoir, or works for impounding water for power purposes, the Commissioner deems it necessary to perpetually back and hold the waters of the Columbia River upon or over certain portions of the bed and shorelands of the Columbia River and overflow such lands and inundate the same; and that said applicant, the Sashington Electric Company, its successors or assigns, is hereby duly granted the right, privilege and authority to perpetually back and hold water upon and over the bed and shorelands of the Columbia River more particularly described as follows:

The bed and shores of Columbia River from a line scross the river which begins at the southeast corner of lot 4, section 4, township 21 north, range 85 cest, 8. M., and runs thence south along the produced east line of said lot 4 to the south line of said section 4, and thence wast along said section line to the southeast corner of lot 7 of said section 4, up the river through sections 4 and 5; township 21 north, range 28 cest, W. M., township 28 north, range 20; 21, and 22 cest, W. M., and township 25 North, range 20 cest, W. M., and through section 35, township 24 north, range 20 cest, W. M., to the line joining the shore ease of the north lines of lots 3 and 4 of east section 35.

Subject to the rights of the purchasers, or their successors in interest, of the shore lands of the second class in front of lots 1 to 5, inclusive, section 5, township 21 north, range 22 east, W. M., lot 7 and the east 15 chains of lot 6, section 20, township 22 north, range 21 east, W. M., tract 25, East Wenstones Lands Company's Plat of part of section 2, township 22 north, range 20 east, W. M., lots 3, 4 and the north 582 feet of the south 582 feet of lot 2, section 11 and part of lot 5, section 27, township 23 north, range 20 east, W. M., previously sold by the State of Washington; also

Subject to the rights of the holders of booming lease No. 701 issued October 30th, 1925, for a term of 10 years and covering the unplatted first class shore lands in front of lots; 2, 3, 6 and 7, section 14 and lots 1 and 2, section 23, and soal lease No. 5, issued June 2, 1928, for a term of 20 years and covering those in front of lots 4, 7 and the major portion of 3, section 11, all in township 22 north, range 20 east, W. M.; also

Bubject to the rights of the City of Wenatchee to the use of the shore lands in front of section 10 and parts of sections 3 and 11, township 28 north, rengs 20 cest, W. M.; for park purposes, as granted by deed issued July 7, 1980, in accordance with the provisions of chapter 17 of the Session Laws of 1917; also,

Subject to right of way for State road and bridge over Columbia River at Wenstonee, as shown on State Road Plat No. 352 on file in the office of the Commissioner of Public Lands at Olympia, Washington; and

It is further ORDERED and DETERMINED that in accordance with said Section 102, Chapter 255 of the Session Laws of 1927, if the construction or creation of a water power plant, reservoir or works for impounding water shall not be commenced within three years from the date of this order and be diligently prosecuted and completed within six years from the date of this order this grant may be forfeited by the Commissioner of Public Lands by serving written notice of such forfeiture upon the Washington Electric Company, its successors or assigns, but the Commissioner for good reason shown to his satisfaction, may extend the time within which such work shall be completed.

Dated this 15th day of January, A. D., 1930.

C. V. Savidge Commissioner of Public Lands.

WINS 3-6-30 W.L.R. 5-6-50 W.H.C. 3-6-50 Filed for record at the request of Grollard & O'Connor, May 24, 1930at 10:18 A. M.

> JOHN COLFREY County Auditor.

No. 195765

ACREDICA

THIS AGREEMENT, Made and executed in triplicate this 12th day of June, 1989, by and between MARVIN CHASE, party of the first part, MILLERDALE IRRIGATION DISTRICT, party of the second part, and E. C. BOWERSON and IONE J. BOWERSON, his wife, parties of the third part, EITHESSERM:

WHENEAS, the first party is the owner of the following described real property situated in Chelan County, Washington, to-wit:

North Half (M) of Northeast Quarter (ME) of Southwest Quarter (SW), Section 16, Township 22 North, of Range 20 E., W. M. which said land is irrigated partly from the irrigation system of the Millerdsle Irrigation

District, and
WHEREAS, the third parties are the owners of the following described real property
situated in Chelan County, Washington, to-wit:

The Southeast quarter of the Southeast quarter of the Southwest quarter (SE) SE; SW), Section Fifteen (18) Township Twenty-two (22) North, Range Twenty (20) E.W.M., containing Ten (10) seres more or less: elso a strip of land off the East side of the Southwest quarter of the Southwest quarter of the Southwest quarter (SW SE SW) of said Section fifteen (15), Township Twenty-two (22) North, Range Twenty (20) E.W.M., one rod wide and extending the full length of the said treet.

which said lands are susceptible of irrigation from the system of the Millerdale Irrigation

WHEREAS, the land of the third parties contain a bearing orchard and are greatly in need of additional water for the irrigation thereof, and the lands of the first party here in are irrigated from sources other than the Millerdale Irrigation District, and

WHEREAS, the Millerdele Irrigation District is willing that the first party may

Ho. 196600

The Grantors, P. F. Scheble and Borothy M. Scheble, his wife, are the owners of the following described real property located in Ghelan County, Washington, to-wit:

Lote 1 to 11 inclusive in Block 1; Lote 1 to 5 Melusive in Block 2; Lote 1 and 3 to 9 inclusive in Block 3; Lote 1 to 12 inclusive and 15 to 27 inclusive in Block 4;
Lote 5, 5, and 19 to 38 inclusive in Block 7; and all of Block 8 in Biver Front Addition to Wenatchee; Washington in Sections 5 and 10, Township 22 N., Bange 20 N.W.M., together with any reversionary or proprietery interest which said owners may have or acquire in the street and alleys abutting each and all of the above described Lots.

Now therefore, the said Grentors, for themselves, their heirs, representative successors and assigns, for and in consideration of the sum of Thirty Thousand and no/100 Dollars (\$50,000.00) in hand paid, hereby give, grant and convey unto Washington Electric Company, a Maine corporation, its successors and assigns, the perpetual right to impound the vaters of the Columbia River and by the construction and/or operation of a dam therein at or near nock Island Washington, to raise the vater level of the Columbia River and the vater table under and over the property herein above described and to damage said property together with the improvements and appurtenames thereunto belonging by overflow, erosion, seepage and/or similar causes by such artificial reising of the waters and water table to various levels at various times but at no time to an elevation on said lamis exceeding Six Eundred Thirty-two (652) feet above see level U. S. Goological Survey datum, which said maximum elevation or project boundary line as the same crosses Sec. 5 & 10 Tep 22 H., R. 20 E.Wik., is described as follows:

Description of Project Boundary in Section 10; T. 22 W. R. 20, E.W.K. Chelen County

Beginning at a point on the East line of Section 10 7. 22 M. B. 20, E.W.M., which point is 1529.54' more or less North of the 1/4 Section Corner on the East side of said Section, themse M. 76° 12' W. 8.15', themse M. 2° 13' W. \$1.4', themse M. 36° 51' W. \$4.8', themse M. 50° 81' W. 44.0', themse M. 21° 10' W. 34.5', themse M. 44° 38' W. 54.5', themse M. 11° 04' W. 42.1'; themse M. 5° 16' W. 68.9', themse M. 40° 06' W. 51.1', themse M. 81° 01' W. 20.1'; themse M. 76° 15' W. 51.3', themse M. 14° 48' W. 57.1', themse M. 22° 25' W. 47.9', themse M. 55° 24' W. 50.7'; themse M. 15° 65' W. 29.7'; themse M. 1° 06' M. 30.3'; themse M. 15° 65' W. 89.7'; themse M. 1° 06' M. 30.3'; themse M. 25° 15' W. 98.5'; themse M. 10° 05' W. 65.7'; themse M. 21° 05' W. 66.4'; themse M. 2° 55' W. 56.0'; themse M. 15° 06' W. 47.2'; themse M. 21° 05' W. 66.4'; themse M. 32° 17' W. 10.8'; themse M. 15° 06' W. 116.4'; themse M. 32° 17' W. 10.8'; themse M. 48° 15' W. 146.0'; themse M. 62° 01' W. 88.1'; themse M. 7° 50' M. 10.6'; themse M. 55° 09' W. 81.1'; themse M. 0° 81' M. 58.3'; themse M. 47° 54' W. 77.2'; themse M. 55° 09' W. 81.1'; themse M. 0° 81' M. 58.3'; themse M. 50° 21' M. 0° 10' M. 88.1'; themse M. 60° 21' M

Description of Project Soundary in Section 3, T. ER W. R. E. E.W.K.,
Ghelan County.

Beginning at a point on the South line of Section 5, T. 22 M. R. 20 E.W.M., which point is 1852,77? more or less H. 89° 21' E. or the 1/4 Section Corner on the South side of said Section, thence H. Sl. 15' W. 56.33', thence S. 72° 48' W. 31.0', thence S. 58' 52' W. 58.3', thence N. 29° 22' W. 53.0', thence N. 48° 41' E. 56.8', thence N. 66° 56' E. 72.4%. thence H. 56° 02° W. 50.4%, thence S. 71° 20° W. 70.4%, thence M. 59° 19° W. 154.1° thence E. 32° 55' W. 221.7°, thence S. 87° 56' E. 43.7°, thence E. 74° 57' E. 35.4°, thence H. 61 08 H. 66 H. thence H. 7° 28' W. 98.9', thence N. 70° 24' H. 219.9', thence N. 19° 4' W. 115.00, thence N. 49° 38' E. 62.11, thence N. 57° 58' W. 20.8', thence S. 54° 59' W. 67.9' thenes N. 45° 09' W. 14.4', thence N. 15° 80' E. 57.6', thence N. 57° 28' W. 18.5', thence S. 70" 28' W. 49.0'; thence W. 61° 58' W. 19.0'; thence W. 18° 89' W. 19.8'; thence W. 25° 87' E. 35.2'. thence W. 39. 55' W. 209.1', thence W. 55' 18', W. 21.7', thence S. 78' 45' W. 128 thence S. 88. 46' W. 19.6', thence W. 68' OB' W. 55.7', thence W. 50' 29' W. 68.0', thence W 20° 80° W. \$7.8°, thence N. 33° 50° W. 94.4°, thence N. 54° 21° W. 68.2°, thence N. 54° 05° W. 51.0', themos W. 40° 55' W. 23.6', themos S. 72° 51' W. 12.2', themos S. 10° 24' W. 45.8', inence 5. 14 49 E 48.27; thence 5. 25 38 E. 51.61; thence 5. 20 47 W. 56.61; thence 5 39-16' W. 22.7', thence S. 36-60' W. 43.7', thence H. 16-58' W. 56.5', thence N. 16-14' 78.5', thence W. 29° 25' W. 75.1', thence W. 26° 06' W. 151.2', thence W. 20° 02' W. 95.6' thense H. 30° 43° W. 115.0°, thense E. 35° 38°W. 96.0°, thense H. 31° 59° W. 95.3°, thense H. 86 84 W. 128.5; thence N. 84 05 W. 45.9; thence N. 0 42 E. 45.6; thence N. 40 55 W 84-4'7 thence H. 21° 49' W. 56.9', thence H. 30° 46' W. 188.3', thence H. 19° 01' W. 284.3', thence W. 23° 00° W. 42,2°, thence W. 17° 01° W. 80.9°, thence W. 6° 41° W. 45,2°, thence W.

1° 41' T. 01.81, the nos E. 18' 41' T. 69.7', thence E. 19' 08' E. 126.4', thence E. 19' 48' W. 39.8! thenee W. 34° 23' W. 23.8', thence W. 1° 27' H. 21.9', thence W. 17° 27' W. 58.1', thense W. 14. 00' W. 151.8', the mee W. 14. 50' W. 55.5', thence W. 80" 54' W. 18.5', thense H. S. 55! E. 29.0", thence H. 78° 28' E. 26.5', th mee H. 38° 51' H. 32.1', theme H. 57° 44 W. 20.3 thence S. 15° 57' W. 25.8'; thense M. 54° 25' W. 57.1', thence M. 41° 57' E. 45.7' thence W. 61° 15' E. 65.8'; the me S. 81° 22' E. 58.6'; thence W. 28° 47' W. 53.8'; the nee M 6° 35' W. 119.0', thence S. 55° 58' W. 78.0', thence S. 86° 52' W. 92.7', theme M. 48° 58' 2. 85.4°, thence W. 24° 09° W. 39.1°, thence W. 18° 58° E. 46.7°, thence W. 18° 19° W. 116.8 thenes M. 12° 37' W. 100.1', the me M. 28° 09' W. 65.0', thense M. 17° 50' W. 97.0', thense W. 10 07 E. 27:8', thence W. 86' 19' W. 50.9', thence S. 68' 59' W. 25:5', thence S. 51' 36' W. 40:5', thence S. 47° 29' W. 50:6', thence S. 77° 50' W. 54:0', thence W. 44° 27' W. 58.8°, thence H. 18° 45° W. 75.4°, thence M. 64° M4° W. 60.4°, thence M. 44° 45° W. 68:9°, thenee N. 75° 18' W. 91.8', thence N. 77° 08' W. 61.6', thence S. 65° 08' W. 64.9'. thence M. 86° 36° W. 98.7°, thence W. 51° 34° W. 27.5°, the me 8. 74° 58° R. 15.6°, thence W. 70° 27' E. 75.6', theme S. 79' 12' E. 50.5', theme N. 64' 44' E. 88.7', theme S. 75' 06' E. 55.8°, thense N. 76° 37° N. 51.4°, thence N. 56° 07° N. 30.5°, thence N. 79° 55° N. 107.4°, thence N. 61. 52. E. 41.7', the me N. 78° 57' E. 51.9', theme S. 41° 49' E. 101.0', thence S. 43° 35' E. 96:0', thence N. 85° 34' E. 26.0', thence N. 10° 56' E. 35:9', thence N. 8° 08' E. 87:21, themse N. 6° 21' W. 56.1', thende N. 2° 04' E. 105.8', thense N. 55° 26' W. 91.9'. thence W. 14° 29' W. 55.8', thence W. 28° 21' W. 65.7', thence W. 20° 40' W. 60.7', thence W. 11° 59' W. 50.5', thence W. 7° 55' W. 88.1', thence W. 2° 40' E. 74.0', thence W. 6° 35' W. 40.5', thence H. 47" 20' W. 52.8', thence H. 55" 29' R. 21.0', thence H. 20" 34' R. 18.7' thence W. 0° 34! W. 23.9', thence W. 24° 08! W. 109.6', theme W. 50° 56' W. 21.0', thence N. 19 45 W. 59.0 , theme N. 54 04 W. 42.4 , thence N. 40 05 E. 21.2 , thence N. 40 41' W. 21:55', to a point on the Morth line of said Section, which point is \$629.98' more or lese 3. 89 50 H. of the Morthwest Corner of said Section, all se nowsurveyed, staked, and

It is understood that the Grantes, its successors and assigns shall not, by the operation of the gates in the dam to be built at Rock Islam, maintain the water level immedistely behind and adjacent to said dam at any greater height than 610 feet above see level, U. S. Geological Survey datum.

Deted this 7 day of July 1950.

P. J. Schoole Borothy M. Scheble

STATE OF WASHINGTON County of Chelen

I, San R. Summer, a Notary Public in and for the ceid State, do hereby certify that on this 14th day of July 1950, personally appeared before me P. F. Saheble and Borothy M. Schoole, his wife, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that they signed and scaled the same os their free and vol untary act and deed for the uses and purposes therein mentioned.

IN NITHESS WHEREOF, I have hereunto set my hand and affixed my official seel the day and year in this certificate first above written.

dam Jugard Sea R. Sumer NOTARY PUBLIC Hotary Public in and for the State of Washington residing et Wens tehes.

Filed for record at the request of Washington Electric Go, July 15, 1930 at 10:25 A. M.

> ILA CRESS County Auditor.

Eo. 198515 QUIT CLAIM DEED

THIS INDESTURE WITHESERTH, That Semuel Beid, a widower, party of the first part, for and in consideration of the sum of OME DOLLAR AND OTHER VALUABLE CONSIDERATION lawful money of the United States of America, to him in hand paid by Eussell Reid and Clars Reid his wife, parties of the second part, does by these presents remies, release, convey and qui elaim unto said parties of the second part their heirs and assigne, all interest of the said party of the first part in and to the following described real property, situate in Cheles County, State of Washington, to-wit:

Lot five (5) Cosy Cove Orchards eccording to the recorded Plat thereof, said lat

48433

FEE #4.00 FILED FOR RECORD

P. U. D. #1, CRelan County

1975 APR 23 PM | 3| EASEMENT MODIFICATION AGREEMENT

Care. Mad. Clark.

BOOK 746 PAGE 343-45 CHELAN COUNTY AUDITOR WENATCHEE, WASH. 37 P.O. Ocx 123, County County

TRACT NOS. 137 & 323

THIS EASEMENT MODIFICATION AGREEMENT, made and entered into this 9th day of April, 1975, by and between PUBLIC UTILITY DISTRICT NO. 1 OF CHELAN COUNTY, a municipal corporation, whose principal office address is 327 North Wenatchee Avenue, Wenatchee, Washington, (hereinafter called "District"), and THE CITY OF WENATCHEE, a Municipal Corporation, (hereinafter referred to as "Grantor"),

WITNESSETH:

WHEREAS, Grantor's predecessor in title to the property described below, here-tofore granted and conveyed, an easement to the Washington Electric Company, a corporation, which easement was recorded in the office of the Chelan County Auditor on the 15th day of July, 1930, in Volume 219, at Page 624, under Auditor's File No. 198308, records of Chelan County, Washington, which easement affects property situate in Chelan County, Washington, more particularly described as follows:

Lots 1 through 11, inclusive, Block 1, <u>EXCEPT</u> the West 170 feet of said Lots 10 and 11; Lots 1 to 9, Block 2; and Lots 1 and Lots 3 to 9, inclusive, Block 3, <u>EXCEPT</u> the West 230 feet of said Lot 1; all in River Front Addition to Wenatchee, according to the Plat thereof recorded in Volume 2 of Plats, Page 64.

WHEREAS, the District has succeeded to all of the rights of the Washington Electric Company under the aforementioned easement, and

WHEREAS, Grantor and District mutually desire to enter into an agreement modifying the provisions of the aforesaid easement to exclude the last paragraph thereof, now, therefore,

IN CONSIDERATION of Ten Dollars and No/100 (\$10.00) and other valuable consideration in hand paid, receipt of which is hereby acknowledged by Grantor, it is hereby mutually agreed as follows:

1. MODIFICATION. The Above-described easement dated the 7th day of July, 1930, made by P. F. SCHEBLE and DOROTHY M. SCHEBLE, his wife, as Grantor, to the Washington Electric Company, a Maine corporation, as Grantee, is hereby modified, effective as of the date of this agreement, to strike and remove from said easement the last

Page 1 of 2 Pages

paragraph thereof which reads as follows:

"It is understood that the Grantee, its successors and assigns shall not by the operation of the gates in the dam to be built at Rock Island, maintain the water level immediately behind and adjacent to said dam at any greater height than 610 feet above sea level, U. S. Geological Survey datum."

2. <u>LEGAL EFFECT</u> . All other provisions of the aforesaid easement shall
remain in full force and effect.
DATES this <u>9th</u> day of <u>April</u> , 1975.
PUBLIC UTILITY DISTRICT NO. 1 OF CHELAN COUNTY, WASHINGTON "GRANTEE"
By: Manager,
By: Mayor Mayor
By Win GRANTOR CLER
STATE OF WASHINGTON) COUNTY OF CHELAN) SS.
On this <u>9th</u> day of <u>April</u> , 1975, before me personally
appeared
Wenatchee Mayor, and David J. Thrush , to me known to
be the <u>City of Wenatchee</u> Town Clerk, of the municipal corporation
that executed the within and foregoing instrument, and each acknowledged that said
instrument to be the free and voluntary act and deed of said municipal corporation,
for the uses and purposes therein mentioned, and each on oath stated that they were
authorized to execute said instrument, and that the seal affixed is the corporate
seal of said corporation.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal
the day and year above written.
Notary Public in and for the State of
Washington, residing at <u>Wenatchee</u>

M X D

STATE OF WASHINGTON) ss.

On this 22nd day of April A.D., 1975, before me personally appeared Howard C. Elmore to me known to be the Manager of the municipal corporation that executed the within and foregoing instrument, and he acknowledged that said instrument to be the free and voluntary act and deed of said municipal corporation, for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument, and that the seal affixed is the corporate seal of said municipal corporation.

 $\,$ IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year above written.



Notary Public in and for the State of Washington

Residing at Wenstchee

A CONTRACTOR OF THE PROPERTY O

CHELAN COUNTY, WASHINGTON

No. 221950 AGREEMENT.

#337

THIS AGREEMENT, Made and entered into this 31st day of May, 1932 by and between the CITY OF WENATCHEE, a municipal corporation, hereinafter called the "City", party of the first part, and PUGET SOUND POWER AND LIGHT COMPANY, a comporation, hereinafter called the "Company", party of the second part,

WITHESETH: That WHEREAS, the Company is engaged in constructing a dam and hydroelectric plant at a point about twelve miles below Wenatches known as Rock Island, which dem will affect the flow of the Columbia River and affect the water elevation thereof in front of the City of Wenatches; and

WHEREAS, the City now obtains its water supply from said river, and as part of its water system owns and operates a pumping and filtration plant on said river, and is also the owner of Ferryman Park, and also has certain streets, both open and unopened at this time, which are within the area affected; and

WHEREAS, the parties hereto desire to agree upon and determine all matters that will affect the City's property and interests as the same may be affected by the said Rock Teland Hydro-electric project of the Company;

NOW, THEREFORE, the City of Wenatchee, in consideration of the agreements herein atipulated to be performed by the Company, hereby grants to the Puget Sound Power and Light Company the right to artificially raise the water level of the Columbia River by the construction and operation of a hydroelectric plant and dam in said river at Rock Island, and grantsto the Company the right, by the impounding of said river, to affect and damage the property of the City described in this agreement by such artificial raising of the water level upon and under the property herein described, at various times and at various elevations, up to but not exceeding the maximum elevation (on the following described lands)632 feet above sea level, U. S. G. S. datum.

Such city property is located in Chelan County, Washington, and described as fol-

CITY WATER SYSTEM PROPERTY AND PUMPING PLANT

Block 1, Lot 1, in Second Suburban Home Addition to Wenatchee, Washington, except the westerly 70 feet thereof, and Lots 2 and 3, Block 2 in Second Suburban Home Addition to Wenatchee, Washington, except the westerly 137 feet thereof.

FERHYMAN PARK.

State shorelands abutting that part of Lot 4, Section 3, lying south of the north city limits of Wenatchee; lots 5 and 6 of said Section 3; Lot 1, Section 10, and that part of Lot 3, Section 11, lying north of the south line of the adjoining section 10 produced easterly across said Lot 3, Section 11, all in Township 22 north of Range 20, E. W. M.

STREETS

That part of each and all of the following dedicated atreets and alleys between the elevation 632 feet above sea level, U. S. G. S. datum, and the Columbia River;

Fifth Street, Second Street, First Street, Palouse Street, Orondo Avenue, Yakima Street, Kittitas Street, Thurston Street, Spokane Street, Chehalis Street, Skagit Street, Bridge Street, Ferry Street, Wharf Street, River Street, and Worthen Street, and each of the alleys between River and Worthen Streets and Palouse and Yakima Streets.

CITY WATER SYSTEM PROPERTY

It is agreed that the Company shall, at its own cost and expense, make the following changes and improvements in and upon the City's municipal system and pumping and filtration plant to-wit:

- (a) All ground owned by the City of Wenatches at the filtration plant and north and east of said plant that is now above elevation 629 feet U. S. Geo. Sur. datum is to be filled with suitable material up to an elevation 632 feet above sea level, U. S. G. S. datum, and all curbs and walks are to be reconstructed at a new level and existing shrubbery and lawn are to be replaced at the new level.
- (b) Entrance to the boiler room is to be curbed with concrete at an elevation 332 feet, and existing door s are to be adjusted to the new level; the walls of the building around the boiler room and pump room are to be water-proof from elevation 630 feet to elevation 632 feet, by mapping said exterior walls with a heavy coat of hot asphalt.
- (c) All dains in pump room and boiler room are to be provided with gate valves to prevent backwater entering these rooms and an electrically operated pump unit of 250 R.P.s. capacity with a 3 H. P. motor is to be installed in the pipe gallery adjacent to the pump room, with discharge to the east wall outside the building. The Company agrees to reim-

burse the City for the actual cost of power used in the operation of this pump whenever it becomes necessary to operate the same.

- (d) The upper openings in the screen pier are to be provided with manually operated sluice gates, with gate stands on the operation floor of the pier, aluice gates to be of the same type as those at the existing mreen chamber, comprising east steel gates in cast steel guides, bronze faced on closing faces, and with guides and gate faces machined to fit,
- (e) In the event of accident to the suction lines of the low lift pump, which lines are now readily accessible for repairs at low water period of the river, the Company agrees to pay any additional cost of such repairs that may be made necessary by the reising of the water level at such low water period, it being undersood that the term "low water period" shall be defined as that time during every year when the natural flow of the Columbia River is less than 50,000 cubic feet per second. It is also understood and agreed between the parties hereto that should the Company desire to minimize its hazarde under this clause, it may do so subject to the approval of the City Engineer of "enatchee, by taking such additional safeguards and by doing such additional work to the existing pumping lines herein mentioned as may meem desirable.
- (f) It is understood and agreed that in the granting of the aforesaid right to the Company, the City reserves the right to claim from and to be compensated by the Company and ite successors in interest to its said Rock Island Project, for the amount of any moneys which the City may be required to expend in further protecting its said, pumping plant or in repair ing any damage that shall be caused to the buildings, pumping machinery, pipe lines, and pum ing equipment comprising said water system, and that shall be caused by or result from the exercise of the rights granted to the Company under the terms of this agreement, it being stipulated that such continuing responsibility to which the Company is subject under the terr of this provision, is not intended to and shall not cover any enlargements or extensions of its present water system or improvements or betterments thereof that the City may hereafter make for the benefit of its said water system or water supply except the two four-million gallon filtration unite now proposed to be added by the City to said system, and shall be limited to any necessary changing of or additions to its present pumping system facilities or to said two filtration units to meet the condition of increased elevations of the water level of the Columbia River proposed to be created by the Company, and that shall be necessar to be made as a result of such changes in the water elevations by the Company.

It is agreed by the Company that if the City shall be held liable for and be required to compensate any person, firm or corporation for any claim of damages that may arise against the City on account of the City granting to the Company the rights hereby granted and on account of and resulting from the increasing of said water levels under the terms of this agreement, the Company and its successors in interest to its said Rock Island Project shall indemnify and hold the City harmless as to any liability so incurred.

It is agreed that the liability assumed by the Company under the provisions of this contract shall be a continuing liability for a period from the date hereof until ten years shall have elapsed after the Company shall have completed and initiated the operation of its said Rock Island hydro-electric plant to the designed impounding elevation of 599 feet above sea level, U. S. G. S. datum, as authorized by its license from the Federal Power Commission. It is understood that such final impounding elevation of 599 feet is not expected to be used by the Company when the first units of said plant are put in operation, and it is agreed that such period of ten years after the final impounding elevation has been put in use, will be adequate time to determine by experience whether any further expenditure upon or changes in said pumping plant and the facilities comprising said water system, are necessary for the adequate protection of said water system, and that the City shall within such time present any demand for compensation to which it may claim to be entitled under the provisions of this agreement, and that the Company shall notify the City of the date of completion to elevation 599 feet.

It is agreed between the parties hereto that the work described in the foregoing paragraphs (a), (b), (c), and (d) shall be completed not later than August, 1932, and that such work shall be subject to the approval and ecceptance of the engineer of the City of wenatches to be filed with the City Commission upon the completion of said work.

FERRYMAN PARK

It is agreed that, the City hereby retaining the title to and reserving all right to fill in, raclaim, or otherwise improve the state shorelands comprising Ferryman Park, the increased water level resulting from the Company's raising or said level will be an sid to any plan of reclaiming or improving said park, and that the City will by any form of resolution or ordinance that may be necessary grant or authorize the granting to the Company the right to raise the level of said waters as hereinbefore stipulated upon said lands known as Ferryman Park, either upon the plan'ss proposed by the Commissioner of Public Lands of the

State of Washington, of said Commissioner granting such rights to the Company upon the request of the City and upon its reservation of title and of rights above specified to be reserved, or in the alternative by the City granting such rights with the aforesaid reservation upon the consent and approval of said Commissioner of Public Lands first obtained, and certifying that such grant by the City shall not be deemed a waiver or forfeiture of said park under the deed of said State Commissioner of Public Lands heretofore executed to the City by suthorization of the legislature of the State of Washington.

STREETS

It is agreed that each of the streets hereinbefore named are as to the portions thereof between the elevation 652 feet above sea level, U. S. G. S. datum, and the Columbia hiver, unimproved as to grading, surfacing, sidewalks or pavement, and also that each of said streets to the extent that the same may now extend or exist across Ferryman Park to the line of low water of the Columbia River, are now subject to overflow by the rise and fall of said river, and that the construction and operation of the Company's Rock Island hydro-electric project will maintain higher elevations of the low water elevation as well as less variation of the water elevation between stages of low water level and high water level than exists in the natural state of said river, and will be an aid instead of a damage to said streets and to the use thereof by the public. Therefore, it is agreed that the sum of One Dollar (\$1.00) as nominal damages, shall be the damage to be paid by the Company to the City as the consideration for the rights hereby stipulated to be granted by the Company as to each of said streets.

CITY OF MENATCHEE By John S. Mooney

(CORP. SEAL)

Mayor

J. H. Miller, Commissioner

. C. W. Wilmeroth.

Commissioner.

Attest:

L. L. Mathewa, City Clerk.

(CORP. SEAL)

PUCET SOUND POWER AND LIGHT COMPANY
By J. F. McLaughlin
President,

Edgar L. Crider.

Assistant Secretary

The undersigned, CLARK V. SAVIDGE, as Commissioner of Public Lands of the State of Washington, to the extent of the jurisdiction and authority vested in him, hereby approves the execution by the officers of the City of Wenatchee of the foregoing instrument as to the matters therein contained which are applicable to Ferryman Park; and since by said contract the City of Wenatchee retains the ownership of said property and reserves the right to fill in, reclaim and otherwise improve said Park, the said Commissioner, to the extent of his jurisdiction and authority as such Commissioner, joins with the City of Wenatchee in the granting of the rights therein specified with respect to any interest which the State of Washington has or claims to have in said Ferryman Park.

Dated this 31st day of May, 1932.

Clark V. Savidge

Commissioner of Public Lands of the State of Washington.

STATE OF WASHINGTON,)
COUNTY OF THURSTON.)

THIS IS TO CERTIFY, that on the 31st day of May, 1932, before me, the undersigned Notary Public, personally appeared CLARK V. SAVIDGE, Commissioner of Public Lands of the State of Washington, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged to me that he signed and executed the same as his free and voluntary act and deed for the uses and purposes therein mentioned.

WITNESS my hand and official seal the day and year in this certificate first above written.

R. B. Morgan

(Notary Public. R. B. M.) Notary Public in and for the State of Washington, residing at (Com. Exp. Jan. 1, 1954.) Olympia.

STATE OF WASHINGTON County of Chelan.

On this 7th day of June, 1932, before me personally appeared JOHN S. MOONEY, Mayor and J. H. MILLER, Commissioner and C. W. WILMEROTH, Commissioner, to me known to be the City Commissioners of the City of Wenstchee, and L. L. MATHEWS; to me known to be the City Clerk-

of the City of Wenatchee, the corporation that executed the within and foregoing instrument and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they were authorized to execute said instrument and that the seal affixed is the corporate seal of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

A. J. O'Conner

(Notary Public. A. J. O'C.) Notary Public in and for the State of Washington, residing at (Com. Exp. Jan. 9, 1936.) Wenatchee.

STATE OF WASHINGTON, County of King.

On this 13th day of May, 19:2, before me personally appeared J. F. McLaughlin and Edgar L. Crider, to me known to be the President and Assistant Secretary of the PUGET SOUND POWER AND LIGHT COMPANY, the corporation that executed the within and foregoing instrument, and asknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they were authorized to execute said instrument and that the seal affixed is the corporate seal of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

L. E. Karrer

(Notary Public. L. E. K.) Notary Public in and for the State of washington, residing at (Com. Exp. Feb. 10, 1935.) Seattle. Filed for record at the request of Puget Sound Power & Light Co., Jun. 11, 1932, at 9:54 A.-M.

E. M. GILLETTE, County Auditor.

No. 221951 QUIT CLAIM DEED

THIS INDENTURE WITNESSETH, That Evert M. Hinshaw and Ruth Hinshaw, husband and wife, partyles of the first part, for and in consideration of the sum of One Dollar, and other good and valuable considerations Dollars in lawful money of the United States of America, to them in hand paid by J. Harrison Furney, party of the second part does by these presents remise, release, convey and quit claim unto said party of the second part, his heirs and assigns, all interest of the party of the first part in and to the following described real property, situated in Chelan County, State of Washington, to-wit:

The North half of Lot Two (2) and all of Lot Three (3), Block One (1), Gilchrist's Addition to Wenatchee, according to the recorded plat thereof on file with the Auditor of Chelan County.

TO HAVE AND TO HOLD, the said premises, with all their appurtenances, unto the said party of the second part, and to his heirs and assigns forever.

IN WITNESS WHEREOF, the said party of the first part have hereunto set their hands and seal this 31 day of May, 1932.

Executed in Presence of

Evert M. Hinshow Ruth Hinshow

STATE OF WASHINGTON,)
County of Chelan.

On this 31 day of May, 1932, before me personally appeared Evert Hinshaw and Ruth Hinshaw, husband and wife, to me known to be the persons described in and who executed the within and foregoing instrument, and acknowledged the said instrument to be their free and woluntary act and deed, for the uses and purposes therein mentioned.

IN WITNESS WHEREOF. I have hereunto set my hand and affixed my official seal the day and year first abive written.

Sam R. Sumner

(Notary Public . S. R. S.) Notary Public in and for the State of Washington, residing at (Com. Exp. Jun. 11, 1935.) Wenatchee in said County. Filed for record at the request of J. H. Furney Jun. 11, 1932 at 9:54 A. M.

E. M. GILLETTE, County Auditor.

LEC

Return to: Vicki Reister, City Clerk City of Wenatchee PO Box 519 Wenatchee, WA 98807



ORDINANCE NO. 2008-04

AN ORDINANCE, vacating a street and/or alley located in the City of Wenatchee and reserving a perpetual easement to the City of Wenatchee for utility purposes.

WHEREAS, a petition was duly filed with the City Council of the City of Wenatchee in the office of the City Clerk on the 10th day of January, 2008, praying for the vacation of the following described tract and/or alley situated in the City of Wenatchee, Chelan County, Washington, to-wit:

See Exhibit "A" attached hereto and incorporated herein by reference as if fully set forth.

WHEREAS, by Resolution duly passed by the City Council of the City of Wenatchee, the 28th day of February, 2008, at the hour of 5:15 o'clock p.m. of said day in the City Council Chambers of the City Hall in the City of Wenatchee, Chelan County, Washington, was the time and place set for hearing of said petition, and

WHEREAS, said petition was filed by the owners of more than two-thirds of the property abutting upon the street and/or alley sought to be vacated, and

WHEREAS, due notice of said hearing has been given as required by law, and

WHEREAS, after due hearing and consideration of said petition, it was the determination of the City Council of the City of Wenatchee to grant said petition praying for the vacation of said street and/or alley as hereinabove set forth, subject to the condition that the



City reserve in said street and/or alley area a perpetual easement of right-of-way for the location of any and all public utilities.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF WENATCHEE DO ORDAIN as follows:

SECTION I

That the following described street and/or alley situate in the City of Wenatchee, Chelan County, Washington, be and the same is hereby vacated:

See Exhibit "A" attached hereto and incorporated herein by reference as if fully set forth.

SECTION II

The City of Wenatchee reserves unto itself, its successors and assigns, a perpetual easement of right-of-way for the location of all public utilities, including, but not limited to, water, sewer, electrical power, television cable and gas lines.

SECTION III

This Ordinance shall take effect 30 days from and after publication as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF WENATCHEE, at a regular meeting thereof, this & day of & ..., 2008.

CITY OF WENATCHEE, a Municipal Corporation

DENNIS JOHNSON, Mayor

ORDINANCE NO. 2008-04 Page 2.



ATTE	ST: (
Ву:	Ylicki Rusta	
	VICKI REISTER, City Clerk	
APPR	OVED:	
,		
By:		

STEVE D. SMITH, City Attorney



2277931 Page: 4 of 6 83/12/2008 82:20P

EXHIBIT "A"
City of Wenatchee
Strip Vacation

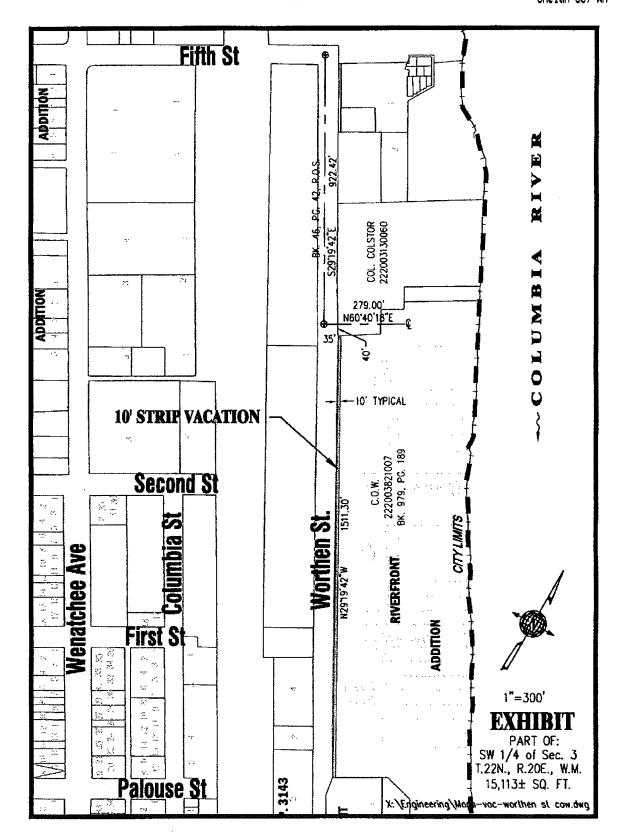
A strip of land for R.O.W. purposes, being part of the River Front Addition, situated in the SE ¼, Section 03, T.22N., R.20E., W.M., said strip of land being 10.00 feet wide by 1511.30 feet in length, more particularly described as follows:

The westerly 10.00 feet of Blocks 1, 2, and 3 of said River Front Addition as shown in Bk. 2, Pg. 64, of plats in the Chelan County Auditor's Office,

The above described tract of land contains 15,115 Sq. Ft., more or less, as delineated on Exhibit "B" attached hereto and made a part hereof as Page 2 of this instrument.

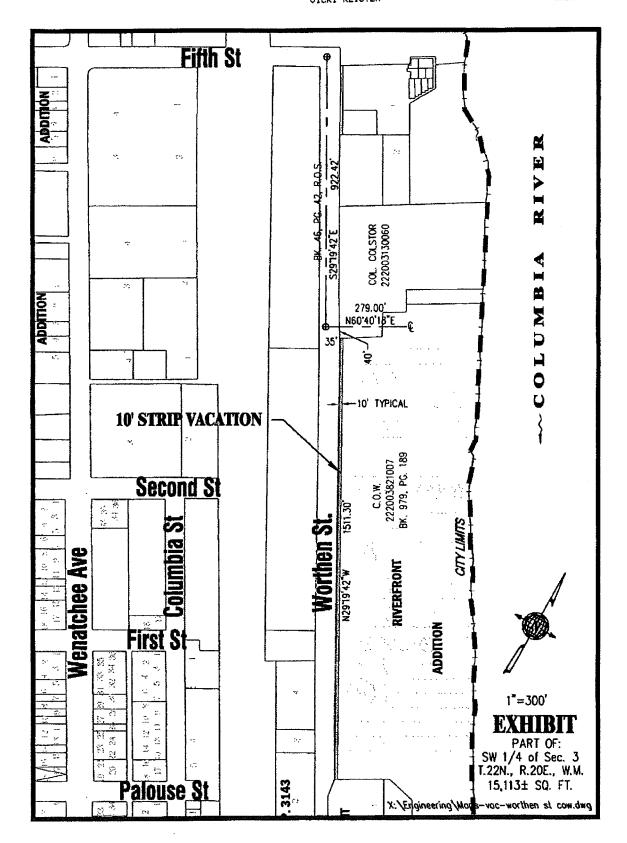


2277031 Page: 5 of 6 63/12/2668 62:28P \$ 47.68 Chelan Co, WA





2277031 Page: 6 of 6 83/12/2008 62:20P Chelan Co: WA



APPENDIX F

EDR GEOCHECK REPORT



City of Wenatchee

25 N Worthen Street Wenatchee, WA 98801

Inquiry Number: 2892831.2s

October 13, 2010

The EDR Radius Map™ Report with GeoCheck®

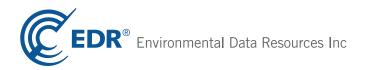


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Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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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

25 N WORTHEN STREET WENATCHEE, WA 98801

COORDINATES

Latitude (North): 47.426700 - 47° 25' 36.1" Longitude (West): 120.308400 - 120° 18' 30.2"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 702995.7 UTM Y (Meters): 5255877.5

Elevation: 634 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 47120-D3 WENATCHEE, WA

Most Recent Revision: 1987

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
WENATCHEE CITY PUBLIC WORKS DEPT 25 N WORTHEN ST WENATCHEE, WA 98807	ALLSITES UST ICR	N/A
WENATCHEE CITY PUBLIC WORKS DEPT 25 NORTH WORTHEN STREET WENATCHEE, WA 98801	RCRA-LQG FINDS	WA0000016212

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 National Priority List Sites
NPL LIENS	
Federal Delisted NPL site li	st
Delisted NPL	National Priority List Deletions
Federal CERCLIS list	
CERCLISFEDERAL FACILITY	Comprehensive Environmental Response, Compensation, and Liability Information System Federal Facility Site Information listing
Federal CERCLIS NFRAP s	ite List
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
Federal RCRA CORRACTS	facilities list
CORRACTS	Corrective Action Report
Federal RCRA non-CORRA	CTS TSD facilities list
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
Federal RCRA generators I	ist
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator
Federal institutional contro	ls / engineering controls registries
US ENG CONTROLSUS INST CONTROL	Engineering Controls Sites List Sites with Institutional Controls
Federal ERNS list	
ERNS	- Emergency Response Notification System
State and tribal leaking sto	rage 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

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

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

SPILLS..... Reported Spills

Other Ascertainable Records

DOT OPS..... Incident and Accident Data DOD...... Department of Defense Sites

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

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

RAATS______RCRA Administrative Action Tracking System

UIC...... Underground Injection Wells Listing

DRYCLEANERS..... Drycleaner List

Inactive Drycleaners 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

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 RCRA generators list

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHELAN CNTY PUD 1 ROCKY REACH	ROCKY REACH HYDRO	D, HIGHSSW 1/8 - 1/4 (0.229 mi.)	D14	34

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 02/17/2010 has revealed that there are 4 HSL sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL BULK PLANT 0853 Facility Type: Hazardous Sites List		NNW 1/4 - 1/2 (0.424 mi.)	M49	153
BNSF WENATCHEE RAILYARD Facility Type: Hazardous Sites List	409 S COLUMBIA	SSE 1/4 - 1/2 (0.473 mi.)	R65	180
LEE ELEMENTARY SCHOOL Facility Type: SITES REMOVED FROM	1455 N BAKER AVE THE HAZARDOUS SITES LIST	E 1/2 - 1 (0.752 mi.)	74	196
ORCHARD MIDDLE SCHOOL Facility Type: SITES REMOVED FROM	1024 ORCHARD AVE THE HAZARDOUS SITES LIST	W 1/2 - 1 (0.800 mi.)	75	197

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 07/27/2010 has revealed that there are 5 CSCSL sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ZIMMERMAN LAW OFFICES	124 N WENATCHEE AVE	W 1/8 - 1/4 (0.208 mi.)	12	30
UNOCAL BULK PLANT 0853		NNW 1/4 - 1/2 (0.424 mi.)	M49	153
CHEVRON 97348	502 N WENATCHEE AVE	NW 1/4 - 1/2 (0.473 mi.)	Q61	170
BNSF WENATCHEE RAILYARD	409 S COLUMBIA	SSE 1/4 - 1/2 (0.473 mi.)	R65	180
VAN WELL NURSERY	1000 N MILLER ST	NW 1/2 - 1 (0.966 mi.)	76	199

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

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Ecology's Solid Waste Facilities Handbook.

A review of the SWF/LF list, as provided by EDR, and dated 06/15/2010 has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WENATCHEE WWTP	201 N WORTHEN ST	NW 1/8 - 1/4 (0.196 mi.)	C10	25

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 08/24/2010 has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OLD CASCADE BLDG	239-253 N WENATCHEE AVE	WNW 1/4 - 1/2 (0.285 mi.)	20	68
APPLE CITY ELECTRIC	326 N WENATCHEE AVE	WNW 1/4 - 1/2 (0.402 mi.)	K43	140
CHEVRON 97348	502 N WENATCHEE AVE	NW 1/4 - 1/2 (0.473 mi.)	Q63	175
BNSF WENATCHEE RAILYARD	409 S COLUMBIA ST	SSE 1/4 - 1/2 (0.473 mi.)	R66	183

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 08/24/2010 has revealed that there are 4 UST sites within approximately 0.25 miles of the target property.

Page
16
20
31
48

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 07/27/2010 has revealed that there are 5 VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHELAN CNTY PUD WORTHEN ST SUB	425 N WORTHEN ST	S 0 - 1/8 (0.074 mi.)	B5	18
GREYHOUND LINES INC WENATCHEE	301 1ST ST	WSW 1/4 - 1/2 (0.328 mi.)	G25	84
WENATCHEE CENTRAL OFFICE 4770	100 S CHELAN	SW 1/4 - 1/2 (0.358 mi.)	31	99
UNOCAL BULK PLANT 0853		NNW 1/4 - 1/2 (0.424 mi.)	M49	153
UNOCAL SVS STA 4942	405 S WENATCHEE AVE	S 1/4 - 1/2 (0.491 mi.)	S71	190

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 16 ICR sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OLD CASCADE BLDG	239-253 N WENATCHEE AVE	WNW 1/4 - 1/2 (0.285 mi.)	20	68
WELLS & WADE FACILITY	201-229 S WENATCHEE AVE	S 1/4 - 1/2 (0.316 mi.)	F24	<i>7</i> 9
GREYHOUND LINES, INC.	301 1ST ST.	WSW 1/4 - 1/2 (0.328 mi.)	G26	85
WENATCHEE CENTRAL OFFICE 4770	100 S CHELAN	SW 1/4 - 1/2 (0.358 mi.)	31	99
CHELAN FALLS GROCERY	320 2ND ST.	W 1/4 - 1/2 (0.363 mi.)	H33	105
WENATCHEE BUILDING SUPPLY	302 S COLUMBIA	S 1/4 - 1/2 (0.373 mi.)	J35	108
MIDWAY TEXACO SERVICE	300 S WENATCHEE AVE	S 1/4 - 1/2 (0.399 mi.)	40	119
CHELAN COUNTY PUD	327 N. WENATCHEE AVE.	WNW 1/4 - 1/2 (0.401 mi.)	K41	124
CHELAN CNTY PUD 1 WENATCHEE AV	327 NORTH WENATCHEE AV	EWNW 1/4 - 1/2 (0.401 mi.)	K42	125
MILLER PROPERTY/APPLE CITY ELE	326 N. WENATCHEE AVE.	WNW 1/4 - 1/2 (0.402 mi.)	K44	145
CHELAN COUNTY PUD - FLEET SERV	427 N. WENATCHEE AVE.	NW 1/4 - 1/2 (0.439 mi.)	N53	161
APPLE CITY ELECTRIC	525 N. PIERRE ST.	NW 1/4 - 1/2 (0.459 mi.)	O59	169
UNOCAL #0853	5TH ST. N. / WENATCHE	NW 1/4 - 1/2 (0.466 mi.)	Q60	170
CHEVRON #7348	502 N. WENATCHEE	NW 1/4 - 1/2 (0.473 mi.)	Q62	173
BURLINGTON NORTHERN RAILROAD	409 S. COLUMBIA ST.	SSE 1/4 - 1/2 (0.473 mi.)	R64	179
UNOCAL #4942	405 S. WENATCHEE	S 1/4 - 1/2 (0.491 mi.)	S70	188

State and tribal Brownfields sites

BROWNFIELDS: 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.

A review of the BROWNFIELDS list, as provided by EDR, and dated 07/27/2010 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
WENATCHEE CITY WORTHEN ST LAND	WORTHEN ST	S 0 - 1/8 (0.119 mi.)	6	19	

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 08/10/2010 has revealed that there are 56 ALLSITES sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLUMBIA COLSTOR INC WENATCHEE	410 N WORTHEN ST	S 0 - 1/8 (0.062 mi.)	В3	11
BUDGET FUEL & SERVICE INC	421 N WORTHEN	S 0 - 1/8 (0.069 mi.)	B4	16

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHELAN CNTY PUD WORTHEN ST SUB	425 N WORTHEN ST	S 0 - 1/8 (0.074 mi.)	B5	18
WENATCHEE CITY WORTHEN ST LAND	WORTHEN ST	S 0 - 1/8 (0.119 mi.)	6	19
PACIFIC COCA COLA BOTTLING UST	16 N COLUMBIA ST	SW 1/8 - 1/4 (0.135 mi.)	7	20
CENTRAL WASHINGTON WATER INC	24 S COLUMBIA ST	SSW 1/8 - 1/4 (0.149 mi.)	8	22
WENATCHEE WWTP	201 N WORTHEN ST	NW 1/8 - 1/4 (0.196 mi.)	C10	25
SILK SCREEN	3 ORONDO ST	SSW 1/8 - 1/4 (0.202 mi.)	11	28
ZIMMERMAN LAW OFFICES	124 N WENATCHEE AVE	W 1/8 - 1/4 (0.208 mi.)	12	30
PYBUS STEEL COMPANY	4 & 8 ORONDO	SSW 1/8 - 1/4 (0.217 mi.)	D13	31
CHELAN CNTY PUD 1 ROCKY REACH	ROCKY REACH HYDRO, HIGH	HSSW 1/8 - 1/4 (0.229 mi.)	D14	34
CENTRAL MAINTENANCE	HWY 97 & ROCKY REACH DA	• ,	15	48
WORLD PUBLISHING COMPANY	14 N MISSION ST	SW 1/4 - 1/2 (0.263 mi.)	16	51
HAYES CLEANERS	121 N MISSION	WSW 1/4 - 1/2 (0.267 mi.)	E17	53
EBERLES LAUNDRY	122 N MISSION ST	WSW 1/4 - 1/2 (0.268 mi.)	E18	66
KPQ TRANSMITTER SITE & STUDIO	32 N MISSION	WSW 1/4 - 1/2 (0.274 mi.)	19	66
OLD CASCADE BLDG	239-253 N WENATCHEE AVE	, ,	20	68
NORTHERN FRUIT CO 2ND STREET	220 2ND ST NE	W 1/4 - 1/2 (0.309 mi.)	21	73
WENATCHEE VALLEY CULTURAL CTR	127 S MISSION ST	SSW 1/4 - 1/2 (0.311 mi.)	22	76
WELLS & WADE FACILITY	201-229 S WENATCHEE AVE	• ,	F23	78
GREYHOUND LINES INC WENATCHEE	301 1ST ST	WSW 1/4 - 1/2 (0.328 mi.)	G25	84
QWIK STOP CHELAN	116 CHELAN	WSW 1/4 - 1/2 (0.331 mi.)	G27	85
NANCEKIVELLS CLEANERS	136 N CHELAN AVE	WSW 1/4 - 1/2 (0.336 mi.)	28	90
WENATCHEE LIBRARY	310 DOUGLAS ST	SW 1/4 - 1/2 (0.336 mi.)	29	95
FAUBION FAMILY LLC	310 S WORTHEN	SSE 1/4 - 1/2 (0.355 mi.)	30	96
WENATCHEE CENTRAL OFFICE 4770	100 S CHELAN	SW 1/4 - 1/2 (0.358 mi.)	31	99
CHELAN FALLS GROCERY	320 2ND AVE	W 1/4 - 1/2 (0.363 mi.)	H32	102
WENATCHEE CITY	129 S CHELAN ST	SSW 1/4 - 1/2 (0.368 mi.)	I34	106
WENATCHEE BUILDING SUPPLY	302 S COLUMBIA	S 1/4 - 1/2 (0.373 mi.)	J35	108
WENATCHEE CITY FIRE DEPT	136 S CHELAN AVE	SSW 1/4 - 1/2 (0.374 mi.)	<i>1</i> 36	110
BRIANS AUTOMOTIVE ALTERNATIVE	317 ORONDO ST	SW 1/4 - 1/2 (0.381 mi.)	37	112
SAFEWAY FUEL 3265	316 N COLUMBIA ST	S 1/4 - 1/2 (0.383 mi.)	J38	116
CENTRAL WASHINGTON CONCRETE WE	_	NW 1/4 - 1/2 (0.391 mi.)	39	118
MIDWAY TEXACO SERVICE	300 S WENATCHEE AVE	S 1/4 - 1/2 (0.399 mi.)	40	119
CHELAN CNTY PUD 1 WENATCHEE AV	327 NORTH WENATCHEE AV	, ,	K42	125
APPLE CITY ELECTRIC	326 N WENATCHEE AVE	WNW 1/4 - 1/2 (0.402 mi.)		140
USWCOM WENATCHEE TOLL 408	201 S CHELAN	SSW 1/4 - 1/2 (0.407 mi.)	L45	146
US DEPT OF AGRICULTURE FHA	301 YAKIMA ST	SSW 1/4 - 1/2 (0.408 mi.)	L46	147
CHELAN COUNTY PUBLIC WORKS WEN	350 ORONDO AVE	SW 1/4 - 1/2 (0.417 mi.)	47	149
WENATCHEE CITY WWTP	1 5TH ST	NNW 1/4 - 1/2 (0.422 mi.)	M48	152
UNOCAL BULK PLANT 0853	C ETH CT CTC A	NNW 1/4 - 1/2 (0.424 mi.)	M49	153 450
PHILLIPPI FRUIT CO 6 A FIFTH	6 5TH ST STE A	NNW 1/4 - 1/2 (0.425 mi.)	M50	156 150
CENTRAL WASHINGTON BANK MAIN O	301 N CHELAN ST	WNW 1/4 - 1/2 (0.433 mi.)		159
MICKS FIFTH STREET SERVICE	424 N WENATCHEE AVE	NW 1/4 - 1/2 (0.439 mi.)	N54	161 164
APPLE CITY ELECTRIC INC	525 N PIERRE ST	NW 1/4 - 1/2 (0.441 mi.) SW 1/4 - 1/2 (0.457 mi.)	O55	164 166
CHELAN COUNTY USED OIL COLLECT INLAND WATER PEST CONTROL ROSE	316 WASHINGTON ST STE 4 316 WASHINGTON ST STE 4	SW 1/4 - 1/2 (0.457 mi.)	P56 P57	166 167
FEDERAL EXPRESS CORP WENATCHEE	412 N MISSION	WNW 1/4 - 1/2 (0.457 mi.)		167 167
CHEVRON 97348	502 N WENATCHEE AVE	NW 1/4 - 1/2 (0.437 III.)	961	170
BNSF WENATCHEE RAILYARD	409 S COLUMBIA	SSE 1/4 - 1/2 (0.473 mi.)	R65	180
JACK W KELLER	319 S CHELAN AVE	SSW 1/4 - 1/2 (0.487 mi.)	67	183
DICKS TOWING & REPAIR	110 THURSTON	S 1/4 - 1/2 (0.488 mi.)	S68	184
COLUMBIA PAINT & COATINGS WENA	525 N WENATCHEE AVE	NW 1/4 - 1/2 (0.489 mi.)	69	186
UNOCAL SVS STA 4942	405 S WENATCHEE AVE	S 1/4 - 1/2 (0.491 mi.)	S71	190
5.10 5/12 5 10 5 1 A 7072	O WENT ONLE AVE	○ 1/4 1/2 (0.401 IIII.)	J	,,,,
Lower Elevation	Address	Direction / Distance	Map ID	Page
IN VALL CO INC	440 C WORTUEN	005 4/4 4/0 /0 407 11		
JN VAIL CO INC	410 S WORTHEN	SSE 1/4 - 1/2 (0.427 mi.)	51	158

Lower Elevation	Address	Direction / Distance	Map ID	Page	
WENATCHEE SUBSTATION	514 WORTHEN ST	SSE 1/4 - 1/2 (0.499 mi.)	72	194	

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 07/27/2010 has revealed that there are 9 CSCSL NFA sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
CHELAN CNTY PUD WORTHEN ST SUB	425 N WORTHEN ST	S 0 - 1/8 (0.074 mi.)	B5	18	
WENATCHEE CITY WORTHEN ST LAND	WORTHEN ST	S 0 - 1/8 (0.119 mi.)	6	19	
OLD CASCADE BLDG	239-253 N WENATCHEE AVE	WNW 1/4 - 1/2 (0.285 mi.)	20	68	
WELLS & WADE FACILITY	201-229 S WENATCHEE AVE	S 1/4 - 1/2 (0.316 mi.)	F23	<i>7</i> 8	
GREYHOUND LINES INC WENATCHEE	301 1ST ST	WSW 1/4 - 1/2 (0.328 mi.)	G25	84	
WENATCHEE CENTRAL OFFICE 4770	100 S CHELAN	SW 1/4 - 1/2 (0.358 mi.)	31	99	
CHELAN FALLS GROCERY	320 2ND AVE	W 1/4 - 1/2 (0.363 mi.)	H32	102	
CHELAN CNTY PUD 1 WENATCHEE AV	327 NORTH WENATCHEE AV	EWNW 1/4 - 1/2 (0.401 mi.)	K42	125	
UNOCAL SVS STA 4942	405 S WENATCHEE AVE	S 1/4 - 1/2 (0.491 mi.)	S71	190	

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 2 RCRA-NonGen sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
WENATCHEE STP	201 N WORTHEN ST	NW 1/8 - 1/4 (0.196 mi.)	C9	23	
SILK SCREEN	3 ORONDO ST	SSW 1/8 - 1/4 (0.202 mi.)	11	28	

MANIFEST: Hazardous waste manifest information.

A review of the MANIFEST list, as provided by EDR, and dated 12/31/2009 has revealed that there are 2 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLUMBIA COLSTOR INC WENATCHEE	410 N WORTHEN ST	S 0 - 1/8 (0.062 mi.)	B3	11
CHELAN CNTY PUD 1 ROCKY REACH	ROCKY REACH HYDRO, H	IGHSSW 1/8 - 1/4 (0.229 mi.)	D14	34

EDR PROPRIETARY RECORDS

EDR Proprietary Records

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.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there is 1 Manufactured Gas Plants site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WENATCHEE VALLEY GAS AND ELECT	SPOKANE STREET	SSE 1/2 - 1 (0.591 mi.)	73	195

Due to poor or inadequate address information, the following sites were not mapped:

Site Name Database(s)

WA WSU SMITH TRACT CSCSL NFA, VCP, ALLSITES

SPRINT COMMUNICATIONS CO E WENATCH

FINDS,ALLSITES

BJS LINCOLN ROCK

FINDS,ALLSITES,UST

SICKLER SUBSTATION UST, ALLSITES

AMERICAN TRANSPORT TANKER SPILL

ROCKY REACH DAM BOAT DOCKS

CSCSL NFA,VCP,ALLSITES

FINDS,UST,ALLSITES

WENATCHEE ROCK PRODUCTS ROCKY REAC ALLSITES

ENATCHEE ROCK PRODUCTS ROCKY REAC ALLSTIT

ART NORDANG TRUCKING INC FINDS, RCRA-NLR, MANIFEST, ALLSITES PACIFIC RIM LAND CSCSL NFA, ALLSITES

WENATCHEE TRUCK REPAIR

CENTRAL WA EQUIPMENT INC

FINDS, RCRA-NLR, ALLSITES

FINDS, ALLSITES, RCRA-LQG

CENTRAL WA EQUIPMENT INC FINDS,ALLSITES,RCRA-LQG AMERIGAS WENATCHEE FINDS,ALLSITES

WENATCHEE CITY LINCOLN ROCK
WENATCHEE DRY CLN CHEM
WELLS & WADE FRUIT CO COLUMBIA ST

HINDS,ALLSITES
FINDS,ALLSITES
FINDS,ALLSITES

JR SIMPLOT CO WENATCHEE PLT FINDS,UST,ALLSITES,RCRA-NLR

WA ECY N WENATCHEE DRY CLN CHEM INACTIVE DRYCLEANERS

CHELAN CO WORTHEN ST LDFL CERCLIS-NFRAP FAUBION FAMILY LLC RCRA-LQG

WSU TREEFRUIT RESEARCH & EXTENSION RCRA-NLR
EAST WENATCHEE STP FINDS
WENATCHEE REGIONAL WATER SUPPLY SY FINDS

WENATCHEE ROCK PRODUCTS ROCKY REAC FINDS
WENATCHEE ORCHARD FINDS

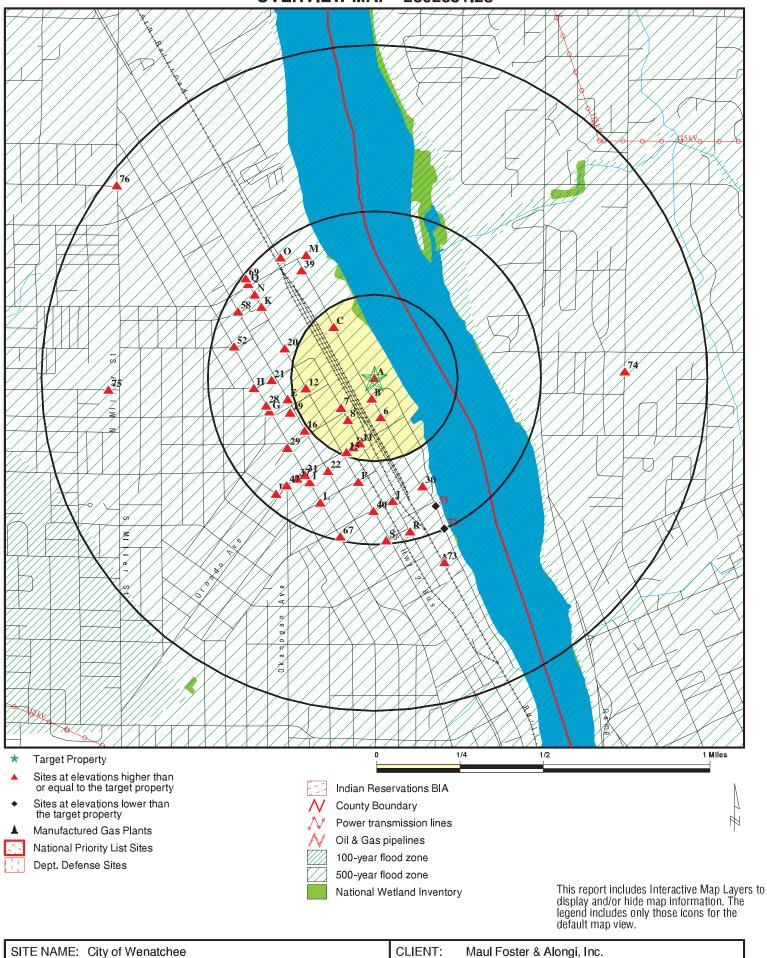
COCA COLA BOTTLING OF WENATCHEE FINDS
SMITHS AUTO WRECKING WENATCHEE FINDS
CELLCO - DT WENATCHEE FINDS

WENATCHEE, CITY OF FINDS
WENATCHEE LANDFILL BROWNFIELDS

ROCKY REACH DAM ICR CHELAN MAINTENANCE SHOP ICR

COLUMBIA COLSTORE ICR
CENTRAL WASHINGTON CONCRETE, INC. MINES

OVERVIEW MAP - 2892831.2s



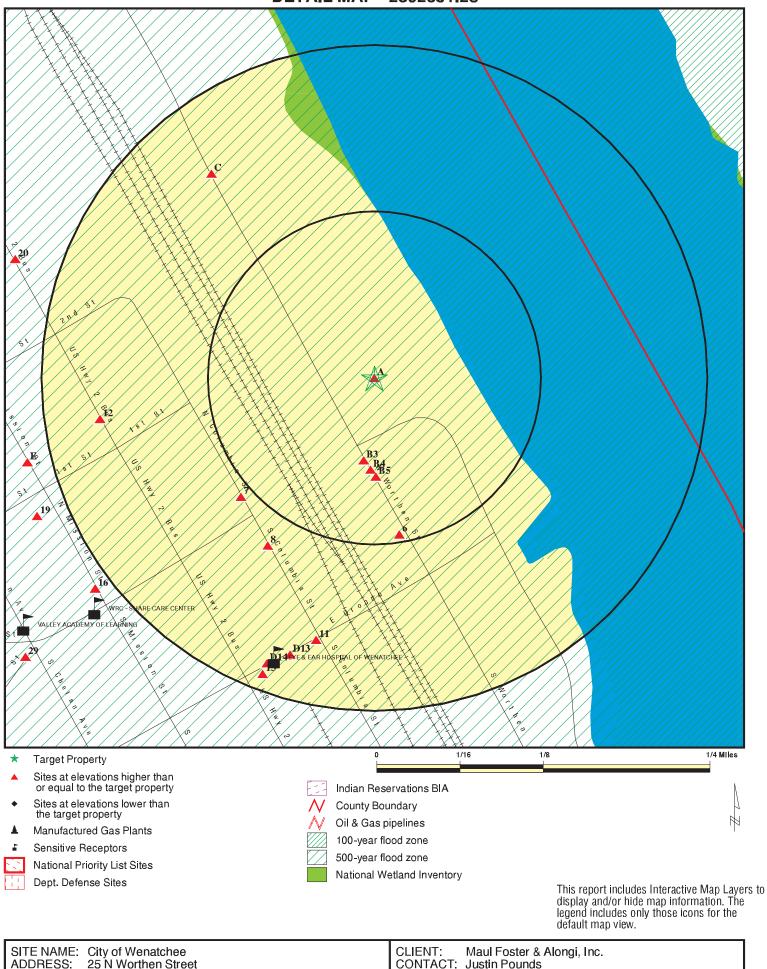
SITE NAME: City of Wenatchee

ADDRESS: 25 N Worthen Street
Wenatchee WA 98801

CLIENT: Maul Foster & Alongi, Inc.
CONTACT: Justin Pounds
INQUIRY #: 2892831.2s

LAT/LONG: 47.4267 / 120.3084 DATE: October 13, 2010 3:01 pm

DETAIL MAP - 2892831.2s



ADDRESS:

LAT/LONG:

Wenatchee WA 98801

47 4267 / 120 3084

October 13, 2010 3:01 pm Copyright © 2010 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

INQUIRY#: 2892831.2s

DATE:

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 ENVIRONMENT	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS		1.000 1.000 TP	0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL sit	e list							
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY		0.500 1.000	0 0	0 0	0 0	NR 0	NR NR	0 0
Federal CERCLIS NFRA	P site List							
CERC-NFRAP		0.500	0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS		1.000	0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	X	0.250 0.250 0.250	0 0 0	0 1 0	NR NR NR	NR NR NR	NR NR NR	0 1 0
Federal institutional con engineering controls reg								
US ENG CONTROLS US INST CONTROL		0.500 0.500	0 0	0 0	0 0	NR NR	NR NR	0 0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent NPL							
HSL		1.000	0	0	2	2	NR	4
State- and tribal - equiva	alent CERCLIS	3						
CSCSL		1.000	0	1	3	1	NR	5
State and tribal landfill a solid waste disposal site								
SWF/LF		0.500	0	1	0	NR	NR	1
State and tribal leaking	storage tank l	ists						
LUST INDIAN LUST		0.500 0.500	0 0	0 0	4 0	NR NR	NR NR	4 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 register	ed storage tar	nk lists						
UST AST INDIAN UST FEMA UST	X	0.250 0.250 0.250 0.250	1 0 0 0	3 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	4 0 0 0
State and tribal institution control / engineering co		s						
INST CONTROL		0.500	0	0	0	NR	NR	0
State and tribal voluntar	y cleanup site	es						
INDIAN VCP VCP ICR	х	0.500 0.500 0.500	0 1 0	0 0 0	0 4 16	NR NR NR	NR NR NR	0 5 16
State and tribal Brownfie	elds sites							
BROWNFIELDS		0.500	1	0	0	NR	NR	1
ADDITIONAL ENVIRONMEN	NTAL RECORDS	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	Solid							
DEBRIS REGION 9 ODI SWTIRE INDIAN ODI		0.500 0.500 0.500 0.500	0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Lists of Hazardou Contaminated Sites	s waste /							
US CDL ALLSITES CSCSL NFA CDL HIST CDL US HIST CDL	X	TP 0.500 0.500 TP TP TP	NR 4 2 NR NR NR	NR 8 0 NR NR NR	NR 44 7 NR NR NR	NR NR NR NR NR	NR NR NR NR NR	0 56 9 0 0
Local Land Records								
LIENS 2 LUCIS		TP 0.500	NR 0	NR 0	NR 0	NR NR	NR NR	0 0
Records of Emergency	Release Repo	rts						
HMIRS SPILLS		TP TP	NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Rec	cords							
RCRA-NonGen		0.250	0	2	NR	NR	NR	2

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	> 1	Total Plotted
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	Ö
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	1	1	NR	NR	NR	2
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 INDIAN RESERV		0.250	0	0	NR	NR 0	NR NR	0
SCRD DRYCLEANERS		1.000 0.500	0 0	0 0	0 0	NR	NR NR	0 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	Ö
EDR PROPRIETARY RECOR	<u>DS</u>							
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	1	NR	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

A1 WENATCHEE CITY PUBLIC WORKS DEPT ALLSITES U001127664
Target 25 N WORTHEN ST UST N/A

Target 25 N WORTHEN ST Property WENATCHEE, WA 98807

Site 1 of 2 in cluster A

Actual: ALLSITES:

634 ft. Facility Id: 98691464

Latitude: 47.426378659999997

Longitude: -120.3088813 Geographic location identifier (alias facid): 98691464

Facility Name: Wenatchee City Public Works Dept

Latitude Decimal Degrees: 47.426378659999997

Longitude Decimal Degrees: -120.3088813

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): 98691464 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 99032
Interaction Start Date: 2/8/2000
Interaction End Date: 3/1/2006
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 98691464 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WA0000016212
Interaction Start Date: 9/30/1993
Interaction End Date: 10/21/1993
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Geographic Location Identifier (Alias Facid): 98691464
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility

Interaction Status:

Federal Program Indentifier:

99032
Interaction Start Date:
6/3/1995
Interaction End Date:
2/10/2006
prgm_facil:
Not reported
cur_sys_pr:
TOXICS
cur_sys_nm:
ISIS

UST:

Facility ID: 98691464
Site ID: 99032
Lat Deg: 47
Lat Min: 25

Lat Sec: 34.9631759999909

ICR

Direction Distance Elevation

ation Site Database(s) EPA ID Number

WENATCHEE CITY PUBLIC WORKS DEPT (Continued)

U001127664

EDR ID Number

Long Deg: -120 Long Min: 18

 Long Sec:
 31.9726799999853

 UBI:
 0480000430010001

 Phone Number:
 5096645988

 Tank ID:
 5779

 Tank Name:
 2

 Install Date:
 4/20/1970

Capacity: 1,101 to 2,000 Gallons

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:10/28/1998 Tank Status: Removed Tank Permit Expiration Date: 1/1/0001 Tank Closure Date: 6/3/1995 Tank Pumping System: Not reported Tank Spill Prevention: None Tank Overfill Prevention: None

Tank Material: Not reported Tank Construction: Other

Tank Tightness Test:
Tank Corrosion Protection:
Pipe Material:
Pipe Construction:
Pipe Primary Release Detection:
Pipe Second Release Detection:
Pipe Corrosion Protection:
None
None

Tank Primary Release Detection: Weekly Manual Gauging

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 12/15/1994 Tag Number: Not reported

 Tank ID:
 5830

 Tank Name:
 1

 Install Date:
 4/20/1960

Capacity: 1,101 to 2,000 Gallons

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:10/28/1998 Tank Status: Removed Tank Permit Expiration Date: 1/1/0001 Tank Closure Date: 6/3/1995 Not reported Tank Pumping System: Tank Spill Prevention: None Tank Overfill Prevention: None Tank Material: Not reported Tank Construction: Other Tank Tightness Test: Not reported Tank Corrosion Protection: None Pipe Material: Not reported Pipe Construction: Other Pipe Primary Release Detection: Suction Pipe Second Release Detection: Not reported Pipe Corrosion Protection: None

Direction Distance

Elevation Site Database(s) EPA ID Number

WENATCHEE CITY PUBLIC WORKS DEPT (Continued)

U001127664

EDR ID Number

Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 12/15/1994 Tag Number: Not reported

Tank ID: 5852 Tank Name: 3

Install Date: 4/20/1960

Capacity: 1,101 to 2,000 Gallons

1/1/0001 Tank Upgrade Date: TankSystem Status: Removed TankSystem Status Change Date:10/28/1998 Tank Status: Removed Tank Permit Expiration Date: 1/1/0001 Tank Closure Date: 6/3/1995 Tank Pumping System: Not reported Tank Spill Prevention: None Tank Overfill Prevention: None Tank Material: Not reported

Tank Material:

Tank Construction:

Other

Tank Tightness Test:

Not reported

Tank Corrosion Protection:

Pipe Material:

Not reported

None

Not reported

Other

Pipe Construction:

Other

Pipe Primary Release Detection:

Pipe Second Release Detection:

Not reported

None

Tank Primary Release Detection:

Not reported

None

Tank Primary Release Detection:

Not reported

Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 12/15/1994 Tag Number: Not reported

ICR:

Date Ecology Received Report: 06/03/95

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil
Waste Management: Tank
Region: Central

Type of Report Ecology Received: Final cleanup report

Site Register Issue: 98-15 County Code: 4

Contact: Not reported Report Title: Not reported

WENATCHEE CITY PUBLIC WORKS DEPT

Target 25 NORTH WORTHEN STREET Property WENATCHEE, WA 98801

Site 2 of 2 in cluster A

Actual: RCRA-LQG:

A2

634 ft. Date form received by agency: 01/01/1994

Facility name: WENATCHEE CITY PUBLIC WORKS DEPT

Facility address: 25 N WORTHEN ST

1000878336

WA000016212

RCRA-LQG

FINDS

Map ID MAP FINDINGS
Direction

Direction Distance Elevation

on Site Database(s) EPA ID Number

WENATCHEE CITY PUBLIC WORKS DEPT (Continued)

1000878336

EDR ID Number

WENATCHEE, WA 988070519

EPA ID: WA0000016212 Mailing address: 129 S CHELAN ST

WENATCHEE, WA 98801 ROBERT JOHANSON 129 S CHELAN ST

WENATCHEE, WA 98801

Contact country: US

Contact:

Contact address:

Contact telephone: (509)664-3377 Contact email: Not reported

EPA Region: 10

Classification: Large Quantity Generator

Description: Handler: generates 1,000 kg or more of hazardous waste during any

calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than

100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: JIM AJAX

Owner/operator address: 129 S CHELAN ST

WENATCHEE, WA 98801

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1994
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: Nο 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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WENATCHEE CITY PUBLIC WORKS DEPT (Continued)

1000878336

FINDS

NPDES

ALLSITES

MANIFEST

1007690530

N/A

FINDS:

Registry ID: 110008213762

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.

B3 COLUMBIA COLSTOR INC WENATCHEE

410 N WORTHEN ST South < 1/8 WENATCHEE, WA 98801

0.062 mi.

Site 1 of 3 in cluster B 329 ft. FINDS:

Relative:

Higher

110020037510 Registry ID:

Actual: 639 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.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

ALLSITES:

Facility Id: 15462736

Latitude: 47.4305277392953 Longitude: -120.31041756562 Geographic location identifier (alias facid): 15462736

Facility Name: COLUMBIA COLSTOR WENATCHEE MAIN

Latitude Decimal Degrees: 47.430527739299997 Longitude Decimal Degrees: -120.310417566

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 99

Location Verified Code: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

COLUMBIA COLSTOR INC WENATCHEE (Continued)

1007690530

EDR ID Number

Geographic Location Identifier (Alias Facid): 15462736 Interaction (Aka Env Int) Type Code: TIER2

Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:
Interaction

Geographic Location Identifier (Alias Facid): 15462736 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAH000033778
Interaction Start Date: 9/30/2008
Interaction End Date: 12/31/2008

prgm_facil: COLUMBIA COLSTOR WENATCHEE MAIN

cur_sys_pr: HAZWASTE cur_sys_nm: TURBOWASTE

Geographic Location Identifier (Alias Facid): 15462736
Interaction (Aka Env Int) Type Code: INDUSTGP
Interaction (Aka Env Int) Description: Industrial SW GP

Interaction Status:

Federal Program Indentifier: WAR003769
Interaction Start Date: 11/16/1999
Interaction End Date: Not reported

prgm_facil: COLUMBIA COLSTOR WENATCHEE

cur_sys_pr: WATQUAL cur_sys_nm: PARIS

Geographic Location Identifier (Alias Facid): 15462736 Interaction (Aka Env Int) Type Code: INDUSTIP Interaction (Aka Env Int) Description: Industrial IP

Interaction Status:

Federal Program Indentifier: WA0052400
Interaction Start Date: 6/1/1987
Interaction End Date: Not reported

prgm_facil: COLUMBIA COLSTOR WENATCHEE MAIN

cur_sys_pr: WATQUAL cur_sys_nm: PARIS

Geographic Location Identifier (Alias Facid): 15462736 Interaction (Aka Env Int) Type Code: TIER2

Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:
prgm_facil:
cur_sys_pr:
cur_sys_nm:

CRK000046640
1/1/1998
Not reported
Not reported
HAZWASTE
EPCRA

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

COLUMBIA COLSTOR INC WENATCHEE (Continued)

1007690530

EDR ID Number

WA MANIFEST:

Facility Site ID Number: 15462736 SWC Desc: WT02 FWC Desc: D007 Form Comm: Not reported Data Year: 2008 Permit by Rule: False Treatment by Generator: False Mixed radioactive waste: False Importer of hazardous waste: False Immediate recycler: False

Treatment/Storage/Disposal/Recycling Facility: False Generator of dangerous fuel waste: False Generator marketing to burner: False "Other marketers (i.e., blender, distributor, etc.)": False Utility boiler burner: False Industry boiler burner: False Industrial Furnace: False Smelter defferal: False Universal waste - batteries - generate: False Universal waste - thermostats - generate: False Universal waste - mercury - generate: False Universal waste - lamps - generate: False Universal waste - batteries - accumulate: False Universal waste - thermostats - accumulate: False Universal waste - mercury - accumulate: False Universal waste - lamps - accumulate: False Destination Facility for Universal Waste: False Off-specification used oil burner - utility boiler: False Off-specification used oil burner - industrial boiler: False Off-specification used oil burner - industrial furnace: False

EPA ID: WAH000033778
Facility Address 2: Not reported
TAX REG NBR: 600480652
NAICS CD: 493120

BUSINESS TYPE: Cold Storage Facility
MAIL NAME: Columbia Colstor Inc
MAIL ADDR LINE1: 410 N Worthen St
MAIL CITY,ST,ZIP: Wenatchee, WA 98801
MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Columbia Colstor Inc

LEGAL ORG TYPE: Private

LEGAL ADDR LINE1: 2730 W Marina Dr
LEGAL CITY,ST,ZIP: Moses Lake, WA 98837
LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: (509)765-3343
LEGAL EFFECTIVE DATE: 10/1/1991

LAND ORG NAME: Columbia Colstor Inc

LAND ORG TYPE: Private
LAND PERSON NAME: Not reported
LAND ADDR LINE1: 2730 W Marina Dr
LAND CITY,ST,ZIP: Moses Lake, WA 98837
LAND COUNTRY: UNITED STATES
LAND PHONE NBR: (509)765-3343
OPERATOR ORG NAME: Columbia Colstor Inc

OPERATOR ORG TYPE: Private

OPERATOR ADDR LINE1: 410 N Worthen St

Direction Distance

Elevation Site Database(s) EPA ID Number

COLUMBIA COLSTOR INC WENATCHEE (Continued)

1007690530

EDR ID Number

OPERATOR CITY, ST, ZIP: Wenatchee, WA 98801 **UNITED STATES** OPERATOR COUNTRY: OPERATOR PHONE NBR: (509)750-5638 OPERATOR EFFECTIVE DATE: Not reported SITE CONTACT NAME: Deb Langshaw 410 N Worthen St SITE CONTACT ADDR LINE1: SITE CONTACT ZIP: Wenatchee, WA 98801 SITE CONTACT COUNTRY: **UNITED STATES** (509)750-5638 SITE CONTACT PHONE NBR: SITE CONTACT EMAIL: dlangshaw@colstor.com

FORM CONTACT NAME: Deb Langshaw
FORM CONTACT ADDR LINE1: 410 N Worthen St
FORM CONTACT CITY,ST,ZIP: Wenatchee, WA 98801
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: (509)750-5638

FORM CONTACT EMAIL: dlangshaw@colstor.com

GEN STATUS CD: LQG 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 FACLTY: False USED OIL PROCESSOR: False

USED OIL FUEL MRKTR DIRECTS SHPMNTS: False USED OIL FUEL MRKTR MEETS SPECS: False

False

NPDES:

Facility Status: Active Is Major: N

USED OIL REREFINER:

Facility Type: Industrial NPDES IP

Latitude: 47.43068
Longitude: 120.30923
Permit ID: WA0052400
Permit Issue Date: 9/19/2003
Ecology Contact: Richard Marcley
Ecology Contact Phone: (509) 454-7250
WRIA: Wenatchee

Permit Expiration Date: 10/31/2008 Effective Date: 11/1/2003

Facility Status: Active Is Major: N

Facility Type: Industrial NPDES IP

Latitude: 47.43068
Longitude: 120.30923
Permit ID: WA0023621
Permit Issue Date: 6/1/1987
Ecology Contact: Richard Marcley
Ecology Contact Phone: (509) 454-7250
WRIA: Wenatchee

Distance Elevation

ation Site Database(s) EPA ID Number

COLUMBIA COLSTOR INC WENATCHEE (Continued)

1007690530

EDR ID Number

Permit Expiration Date: 6/1/1992 Effective Date: 6/1/1987

Facility Status: Active Is Major: N

Facility Type: Industrial NPDES IP

Latitude: 47.43068 120.30923 Longitude: Permit ID: WA0052400 Permit Issue Date: 8/8/2008 Richard Marcley **Ecology Contact:** (509) 454-7250 **Ecology Contact Phone:** Wenatchee WRIA: Permit Expiration Date: 9/30/2013

10/1/2008

Facility Status: Active Is Major: N

Effective Date:

Facility Type: Industrial SW GP
Latitude: 47.43068
Longitude: 120.30923
Permit ID: WAR003769
Permit Issue Date: 10/21/2009
Ecology Contact: Ray Latham
Ecology Contact Phone: (509) 575-2807

WRIA: Wenatchee
Permit Expiration Date: 1/1/2015
Effective Date: 1/1/2010

Facility Status: Active Is Major: N

Facility Type: Industrial SW GP Latitude: 47.43068 Longitude: 120.30923 Permit ID: SO3003769 Permit Issue Date: 11/18/1995 **Ecology Contact:** Terry Wittmeier **Ecology Contact Phone:** (509) 574-3991 WRIA: Wenatchee

Permit Expiration Date: 11/18/2000 Effective Date: 11/16/1999

Facility Status: Active Is Major: N

Facility Type: Industrial SW GP
Latitude: 47.43068
Longitude: 120.30923
Permit ID: SO3003769
Permit Issue Date: 8/21/2002
Ecology Contact: Terry Wittmeier
Ecology Contact Phone: (509) 574-3991

WRIA: (509) 574-39
WRIA: Wenatchee
Permit Expiration Date: 5/31/2008
Effective Date: 9/20/2002

Facility Status: Active Is Major: N

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

COLUMBIA COLSTOR INC WENATCHEE (Continued)

1007690530

U003026111

N/A

ALLSITES

UST

Facility Type: Industrial SW GP Latitude: 47.43068 Longitude: 120.30923 Permit ID: SO3003769 Permit Issue Date: 10/4/2000 **Ecology Contact:** Terry Wittmeier **Ecology Contact Phone:** (509) 574-3991 WRIA: Wenatchee Permit Expiration Date: 11/18/2005

11/18/2000

В4 **BUDGET FUEL & SERVICE INC**

421 N WORTHEN South WENATCHEE, WA 98807 < 1/8

Effective Date:

0.069 mi.

Site 2 of 3 in cluster B 364 ft.

ALLSITES: Relative:

Higher Facility Id: 34152254

Latitude: 47.430248779964302 Actual: Longitude: -120.313523049501 640 ft. Geographic location identifier (alias facid): 34152254

> Facility Name: **BUDGET FUEL & SERVICE INC**

Latitude Decimal Degrees: 47.430248779999999

Longitude Decimal Degrees: -120.31352305

Coordinate Point Areal Extent Code: 4 Horizontal Accuracy Code: 13 Coordinate Point Geographic Position Code: 5 Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 34152254 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 1792 Interaction Start Date: 12/15/1999 Interaction End Date: 12/31/1999 Not reported prgm_facil: **TOXICS** cur_sys_pr: ISIS cur_sys_nm:

UST:

Facility ID: 34152254 Site ID: 1792 Lat Deg: 47 Lat Min: 25

Lat Sec: 48.8956078713841

Long Deg: -120 Long Min:

48.682978204472 Long Sec: UBI: Not reported Phone Number: 5096631152

Tank ID: 37355 Tank Name: UG2 Install Date: 12/31/1964

Direction Distance

Elevation Site Database(s) EPA ID Number

Not reported

1/1/0001

BUDGET FUEL & SERVICE INC (Continued)

Capacity:

Tank Upgrade Date:

U003026111

EDR ID Number

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: 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 8/6/1996 Tank Actual Status Date: Tag Number: Not reported

Tank ID: 37415 Tank Name: UG3 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: 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

Tank ID: 37446 Tank Name: UG1

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BUDGET FUEL & SERVICE INC (Continued)

U003026111

Install Date: 12/31/1964 Not reported Capacity: 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 Steel Tank Material: 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

CHELAN CNTY PUD WORTHEN ST SUBSTATION ALLSITES S108991720 South **425 N WORTHEN ST CSCSL NFA** N/A

0.074 mi.

B5

< 1/8

392 ft. Site 3 of 3 in cluster B

ALLSITES: Relative:

21729 Facility Id: Higher

WENATCHEE, WA 98801

Latitude: 47.431236701520596 Actual: Longitude: -120.313687702097 640 ft. Geographic location identifier (alias facid): 21729

> Facility Name: Chelan Cnty PUD Worthen St Substation

Latitude Decimal Degrees: 47.431236701499998 Longitude Decimal Degrees: -120.313687702

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 8 Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 21729 Interaction (Aka Env Int) Type Code: **VOLCLNST**

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status:

Federal Program Indentifier: CE0273 Interaction Start Date: 10/24/2007 Interaction End Date: 1/29/2008

Chelan Cnty PUD Worthen St Substation prgm_facil:

TOXICS cur_sys_pr: cur_sys_nm: ISIS

VCP

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHELAN CNTY PUD WORTHEN ST SUBSTATION (Continued)

S108991720

CSCSL NFA:

Facility/Site Id: 21729

NFA Type: NFA after assessment, IRAP, or VCP

NFA Date: 1/29/2008 Rank: Not reported Not reported Alternate Name:

VCP:

VCP:

WA edr_fstat: 98801 edr_fzip: CHELAN edr_fcnty: edr_zip: 98801-6108 Facility ID: 21729 VCP Status: Not reported

VCP:

Ecology Status: Not reported

NFA Type: NFA after assessment, IRAP, or VCP

Date NFA: 1/29/2008 Rank: Not reported

WENATCHEE CITY WORTHEN ST LANDFILL

ALLSITES S104971417 **CSCSL NFA WORTHEN ST** N/A

South < 1/8 WENATCHEE, WA 98801

BROWNFIELDS

0.119 mi. 628 ft.

ALLSITES: Relative:

Facility Id: 343 Higher

Latitude: 47.424849999999999

Actual: Longitude: -120.30775

639 ft. Geographic location identifier (alias facid): 343

Facility Name: WENATCHEE CITY WORTHEN ST LANDFILL

Latitude Decimal Degrees: 47.424849999999999

Longitude Decimal Degrees: -120.30775

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 99 Location Verified Code:

Geographic Location Identifier (Alias Facid): 343 Interaction (Aka Env Int) Type Code: SCS

Interaction (Aka Env Int) Description: State Cleanup Site

Interaction Status:

Federal Program Indentifier: Not reported Interaction Start Date: 4/15/1996 4/16/1996 Interaction End Date:

prgm_facil: WENATCHEE CITY WORTHEN ST LANDFILL

TOXICS cur_sys_pr: cur_sys_nm: ISIS

CSCSL NFA:

Facility/Site Id: 343

NFA Type: NFA after assessment, IRAP, or VCP

NFA Date: 6/23/1989

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WENATCHEE CITY WORTHEN ST LANDFILL (Continued)

S104971417

1007067983

N/A

FINDS

UST

ALLSITES

Rank: Not reported Alternate Name: Not reported VCP: Not reported

BROWNFIELDS:

343 Facilty ID:

Not reported Rank: Site Manager: CENTRAL REGION **Ecology Status:** Awaiting SHA

Lat/Longitude: Lat/Long: 47.425 / -120.308

PACIFIC COCA COLA BOTTLING UST 5021

SW 16 N COLUMBIA ST WENATCHEE, WA 98801 1/8-1/4

0.135 mi. 711 ft.

FINDS: Relative:

Higher

Registry ID: 110015445810

Actual: 654 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.

ALLSITES:

Facility Id: 61246865

47.424978000000003 Latitude:

Longitude: -120.311762

Geographic location identifier (alias facid): 61246865

Facility Name: PACIFIC COCA COLA BOTTLING UST 5021

Latitude Decimal Degrees: 47.424978000000003

Longitude Decimal Degrees: -120.311762

Coordinate Point Areal Extent Code: 4 Horizontal Accuracy Code: 13 Coordinate Point Geographic Position Code: 5 Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 61246865 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status: Federal Program Indentifier: 5021 Interaction Start Date: 1/27/2000 Interaction End Date: Not reported Not reported prgm_facil: **TOXICS** cur_sys_pr: cur_sys_nm: ISIS

UST:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PACIFIC COCA COLA BOTTLING UST 5021 (Continued)

1007067983

Facility ID: 61246865 Site ID: 5021 Lat Deg: 47 Lat Min: 25

29.9208000000107 Lat Sec:

Long Deg: -120 Long Min: 18

42.3432000000059 Long Sec: UBI: Not reported Phone Number: 5096623521

7850 Tank ID: Tank Name:

Install Date: 12/31/1964 Capacity: Not reported Tank Upgrade Date: 1/1/0001 Closed in Place TankSystem Status: TankSystem Status Change Date:8/26/1996 Tank Status: Closed in Place 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 Not reported Pipe Tightness Test: Tank Actual Status Date: 8/6/1996 Tag Number: Not reported

Tank ID: 7910 Tank Name:

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: Not reported Not reported Tank Tightness Test: Tank Corrosion Protection: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

PACIFIC COCA COLA BOTTLING UST 5021 (Continued)

1007067983

EDR ID Number

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

Tank ID: 7978 Tank Name: 2

Install Date: 12/31/1964 Capacity: Not reported 1/1/0001 Tank Upgrade Date: TankSystem Status: Closed in Place TankSystem Status Change Date:8/26/1996 Tank Status: Closed in Place 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 Not reported Tank Construction: 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 Not reported Pipe Corrosion Protection: Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported Not reported Pipe Tightness Test: Tank Actual Status Date: 8/6/1996

CENTRAL WASHINGTON WATER INC

Tag Number:

24 S COLUMBIA ST

WENATCHEE, WA 98801

SSW 1/8-1/4 0.149 mi. 788 ft.

8

Relative: FINDS:

Higher

Registry ID: 110015418403

Actual: 654 ft.

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.

Not reported

, ,

FINDS

ALLSITES

1007065270

N/A

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

CENTRAL WASHINGTON WATER INC (Continued)

1007065270

1000838085

WAD075746545

FINDS

ALLSITES:

Facility Id: 77797662

Latitude: 47.424419810752902 Longitude: -120.312644837055 Geographic location identifier (alias facid): 77797662

Facility Name: CENTRAL WASHINGTON WATER INC

Latitude Decimal Degrees: 47.424419810800003 Longitude Decimal Degrees: -120.31264483699999

Coordinate Point Areal Extent Code:99Horizontal Accuracy Code:99Coordinate Point Geographic Position Code:99Location Verified Code:N

Geographic Location Identifier (Alias Facid): 77797662 Interaction (Aka Env Int) Type Code: TIER2

Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:

prgm_facil:
CRK000043160

1/1/1996

2/1/2007

Not reported

cur_sys_pr:
Cur_sys_nm:
EPCRA

9 WENATCHEE STP RCRA-NonGen

C9 WENATCHEE STP NW 201 N WORTHEN ST 1/8-1/4 WENATCHEE, WA 98801

0.196 mi.

Actual:

1037 ft. Site 1 of 2 in cluster C

Relative: RCRA-NonGen:

Higher Date form received by agency: 07/22/1992

Facility name: WENATCHEE STP
Facility address: 201 N WORTHEN ST

638 ft. WENATCHEE, WA 988016103

EPA ID: WAD075746545
Contact: DAN CURRY
Contact address: 201 N WORTHEN ST

WENATCHEE, WA 98801-6103

Contact country: US

Contact telephone: (509)664-5980 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: WENATCHEE CITY
Owner/operator address: 201 N WORTHEN ST

WENATCHEE, WA 98801

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 07/22/1992 Owner/Op end date: Not reported

Map ID MAP FINDINGS
Direction

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

WENATCHEE STP (Continued)

1000838085

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: Nο 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: 110000565683

Environmental Interest/Information System

Not reported

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.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

Direction Distance

Elevation Site Database(s) EPA ID Number

 C10
 WENATCHEE WWTP
 ALLSITES
 \$109140269

 NW
 201 N WORTHEN ST
 SWF/LF
 N/A

1/8-1/4 WENATCHEE, WA 98801

0.196 mi.

1037 ft. Site 2 of 2 in cluster C

Relative: ALLSITES:

Higher Facility Id: 90183386

Latitude: 47.430399999999999

Actual: Longitude: -120.31007

638 ft. Geographic location identifier (alias facid): 90183386

Facility Name: WENATCHEE POTW Latitude Decimal Degrees: 47.43039999999999

Longitude Decimal Degrees: -120.31007
Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 99
Coordinate Point Geographic Position Code: 8
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 90183386 Interaction (Aka Env Int) Type Code: TIER2

Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2

Interaction Status:

Federal Program Indentifier: WAD075746545
Interaction Start Date: 1/1/1989
Interaction End Date: 2/2/2006
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: EPCRA

Geographic Location Identifier (Alias Facid): 90183386
Interaction (Aka Env Int) Type Code: BIOSOLID
Interaction (Aka Env Int) Description: Biosolids
Interaction Status: A

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

Not reported
Not reported

prgm_facil: WENATCHEE WWTP

cur_sys_pr: W2R cur_sys_nm: SWFD

Geographic Location Identifier (Alias Facid): 90183386
Interaction (Aka Env Int) Type Code: ENFORFNL
Interaction (Aka Env Int) Description: Enforcement Final

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:
Interaction

Geographic Location Identifier (Alias Facid): 90183386 Interaction (Aka Env Int) Type Code: MUNIIP Interaction (Aka Env Int) Description: Municipal IP

Interaction Status:

Federal Program Indentifier: WA0023949
Interaction Start Date: 7/3/1985
Interaction End Date: Not reported

EDR ID Number

NPDES

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WENATCHEE WWTP (Continued)

S109140269

prgm_facil: WENATCHEE POTW

WATQUAL cur_sys_pr: **PARIS** cur_sys_nm:

90183386 Geographic Location Identifier (Alias Facid): Interaction (Aka Env Int) Type Code: **HWG**

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD075746545 Interaction Start Date: 7/22/1992 9/1/1992 Interaction End Date: Not reported prgm_facil: cur_sys_pr: HAZWASTE cur_sys_nm: **TURBOWASTE**

SWF/LF:

Facility ID: 2437 Region: STATE ACTIVE Permit Status: Not reported Date Closed: Not reported Contact Organization: Contact Address1: PO BOX 519 Contact Address2: Not reported WENATCHEE. Contact City:

Contact State: WA Contact Postal: 98801

Contact EMail: JSHAW@WENATCHEEWA.GOV

Contact Phone: 509-888-3238 Contact Phone Ext: Not reported Permit No: BA0023949 Phone: Not reported Operator Name: Not reported Operator Organization: Not reported

JSHAW@WENATCHEEWA.GOV EMail:

Recycle Survey Code: Not reported Ownership: **PUBLIC** Type: **BIOSOLIDS** Contact Name: STEVE BREWER SUPERVISOR Contact Title: BIOSOLIDS (308) Activity1:

NPDES:

Facility Status: Active

Is Major:

Facility Type: Municipal NPDES IP

47.4304 Latitude: 120.31007 Longitude: Permit ID: WA0023949 Permit Issue Date: Not reported **Ecology Contact:** Dean Smith **Ecology Contact Phone:** (509) 457-7108 WRIA: Wenatchee

Permit Expiration Date: Not reported Effective Date: Not reported

Distance

Elevation Site Database(s) EPA ID Number

WENATCHEE WWTP (Continued)

EDR ID Number

S109140269

Facility Status: Active Is Major: Y

Facility Type: Municipal NPDES IP

Latitude: 47.4304
Longitude: 120.31007
Permit ID: WA0023949
Permit Issue Date: 10/1/1991
Ecology Contact: Rick Frye
Ecology Contact Phone: (509) 575-2821
WRIA: Wenatchee
Permit Expiration Date: 10/1/1996

WRIA: Wenatchee
Permit Expiration Date: 10/1/1996
Effective Date: 10/15/1991

Facility Status: Active Is Major: Y

Facility Type: Municipal NPDES IP

Latitude: 47.4304
Longitude: 120.31007
Permit ID: WA0023949
Permit Issue Date: 4/1/2005
Ecology Contact: Dean Smith
Ecology Contact Phone: (509) 457-7108
WRIA: Wenatchee

Permit Expiration Date: 5/31/2010 Effective Date: 6/1/2005

Facility Status: Active Is Major: Y

Facility Type: Municipal NPDES IP

Latitude: 47.4304
Longitude: 120.31007
Permit ID: WA0023949
Permit Issue Date: 1/27/2000
Ecology Contact: Rick Frye
Ecology Contact Phone: (509) 575-2821
WRIA: Wenatchee

Permit Expiration Date: 2/28/2005 Effective Date: 3/1/2000

Facility Status: Active Is Major: Y

Facility Type: Municipal NPDES IP

Latitude: 47.4304 Longitude: 120.31007 Permit ID: WA0023949 Permit Issue Date: 7/3/1985 **Ecology Contact:** Rick Frye (509) 575-2821 **Ecology Contact Phone:** WRIA: Wenatchee Permit Expiration Date: 7/3/1990 Effective Date: 7/3/1985

Facility Status: Active Is Major: N

Facility Type: Municipal SW Phase II Western WA GP

Latitude: 47.4304 Longitude: 120.31007

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WENATCHEE WWTP (Continued)

S109140269

Permit ID: WAR046011 Permit Issue Date: 1/17/2007 **Ecology Contact:** Terry Wittmeier **Ecology Contact Phone:** (509) 574-3991 WRIA: Wenatchee

Permit Expiration Date: 2/15/2012 Effective Date: 2/16/2007

Facility Status: Active Is Major:

Municipal NPDES IP Facility Type:

47.4304 Latitude: 120.31007 Longitude: Permit ID: BS0000064 Permit Issue Date: 1/1/1993 **Ecology Contact:** Rick Frye **Ecology Contact Phone:** (509) 575-2821 WRIA: Wenatchee Permit Expiration Date:

1/1/1998 Effective Date: 1/1/1993

11 **SILK SCREEN** RCRA-NonGen 1000838130 SSW 3 ORONDO ST **FINDS** WAD988508537 1/8-1/4 WENATCHEE, WA 98801 **ALLSITES**

0.202 mi. 1064 ft.

RCRA-NonGen: Relative:

Date form received by agency: 03/02/1999 Higher SILK SCREEN Facility name:

Actual: Facility address: 3 ORONDO ST 655 ft.

WENATCHEE, WA 98801

EPA ID: WAD988508537 Mailing address: 3 ORONDO AVE

WENATCHEE, WA 98801-2206

Contact: JIM PEARSON Contact address: 3 ORONDO AVE

WENATCHEE, WA 98801-2206

Contact country: US

(509)558-7142 Contact telephone: Contact email: Not reported

EPA Region:

Land type: Other land type Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

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: Nο

Direction Distance

Elevation Site Database(s) EPA ID Number

SILK SCREEN (Continued)

1000838130

EDR ID Number

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: 07/03/1992
Facility name: SILK SCREEN
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 06/02/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110005376949

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:

Facility Id: 25194598

 Latitude:
 47.423099999999998

 Longitude:
 -120.31140000000001

 Geographic location identifier (alias facid):
 25194598

 Facility Name:
 Silk Screen

Latitude Decimal Degrees: 47.423099999999998
Longitude Decimal Degrees: -120.31140000000001

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): 25194598 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD988508537
Interaction Start Date: 7/3/1992
Interaction End Date: 12/31/1992
prgm_facil: Not reported
cur_sys_pr: HAZWASTE

Direction Distance

Elevation Site Database(s) EPA ID Number

SILK SCREEN (Continued) 1000838130

cur_sys_nm: TURBOWASTE

ZIMMERMAN LAW OFFICES CSCSL S110276400

West 1/8-1/4 0.208 mi. 1101 ft.

Relative:

12

124 N WENATCHEE AVE WENATCHEE, WA 98801

WENATCHEE, WA 98801

CSCSL:

HigherFacility ID:22012Facility Type:Not reportedActual:Region:Central661 ft.Ecology Status Code:1

Entered Date: 4/7/2010 Updated Date: 4/7/2010 Brownfield Status: 0

Rank Status: Not reported PSI Status: Not reported Not reported Clean Method: Drinking Water Type: Not reported Cleanup Standard: Not reported Acres Remediated: Not reported Latitude: 47.426088 Longitude: -120.312919

Lat/Long: 47.426088 / -120.312919 Lat/Long (dms): 47.25.33.917 / -120.18.46.508

Media Status Desc: 4/7/2010 Soil Affected Media: 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: **CENTRAL** Not reported Arsenic Code: 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 Not reported Tibutyl Tin Contaminant Group: Not reported Bioassay/Benthic Failures Contaminant Group: Wood Debris Contaminant Group: Not reported Other Deleterious Substance Group: Not reported Ecology Site Status (MTCA cleanup process): Awaiting SHA **EDR ID Number**

N/A

ALLSITES

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ZIMMERMAN LAW OFFICES (Continued)

S110276400

U000596976

N/A

ALLSITES

UST

ALLSITES:

Facility Id: 22012 47.426088 Latitude:

Longitude: -120.31291899999999 Geographic location identifier (alias facid): 22012

Facility Name: Zimmerman Law Offices

Latitude Decimal Degrees: 47.426088

Longitude Decimal Degrees: -120.31291899999999

Coordinate Point Areal Extent Code: Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 8

Location Verified Code: Not reported

Geographic Location Identifier (Alias Facid): 22012 Interaction (Aka Env Int) Type Code: SCS

Interaction (Aka Env Int) Description: State Cleanup Site

Interaction Status:

Federal Program Indentifier: Not reported Interaction Start Date: 3/17/2010 Not reported Interaction End Date:

Zimmerman Law Offices prgm_facil:

TOXICS cur_sys_pr: cur_sys_nm: ISIS

D13 **PYBUS STEEL COMPANY**

SSW **4 & 8 ORONDO**

WENATCHEE, WA 98801 1/8-1/4

0.217 mi.

1147 ft. Site 1 of 2 in cluster D

ALLSITES: Relative:

Facility Id: 13785148 Higher

Latitude: 47.423547999999997

Actual: Longitude: -120.310672

660 ft. Geographic location identifier (alias facid): 13785148

> PYBUS STEEL COMPANY Facility Name: Latitude Decimal Degrees: 47.423547999999997

Longitude Decimal Degrees: -120.310672

Coordinate Point Areal Extent Code: Horizontal Accuracy Code: 13 Coordinate Point Geographic Position Code: 5 Location Verified Code:

Geographic Location Identifier (Alias Facid): 13785148 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 97703 Interaction Start Date: 2/8/2000 Not reported Interaction End Date: prgm_facil: Not reported cur_sys_pr: **TOXICS** ISIS cur_sys_nm:

Direction Distance Elevation

Site Database(s) **EPA ID Number**

PYBUS STEEL COMPANY (Continued)

U000596976

EDR ID Number

UST:

13785148 Facility ID: Site ID: 97703 Lat Deg: 47 Lat Min: 25

24.7727999999881 Lat Sec:

Long Deg: -120 Long Min: 18

Long Sec: 38.4191999999882 UBI: Not reported Phone Number: 5096620235

Tank ID: 19054 Tank Name: 1(S) Install Date: 12/31/1964

111 TO 1,100 Gallons Capacity:

Not reported

Tank Upgrade Date: 1/1/0001 TankSystem Status: Closed in Place TankSystem Status Change Date:8/26/1996 Tank Status: Closed in Place 1/1/0001 Tank Permit Expiration Date: 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:

Tank Corrosion Protection: Not reported Not reported Pipe Material: 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 Not reported Pipe Tightness Test: Tank Actual Status Date: 8/6/1996 Tag Number: Not reported

Tank ID: 37742 Tank Name: 4(E) 12/31/1964 Install Date:

111 TO 1,100 Gallons Capacity:

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

Direction Distance Elevation

Site Database(s) **EPA ID Number**

PYBUS STEEL COMPANY (Continued)

U000596976

EDR ID Number

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

Tank ID: 44395 Tank Name: 3(N) 12/31/1964 Install Date:

111 TO 1,100 Gallons Capacity:

Tank Upgrade Date: 1/1/0001 TankSystem Status: Exempt TankSystem Status Change Date:8/26/1996 Tank Status: Exempt Tank Permit Expiration Date: 1/1/0001 1/1/0001 Tank Closure Date:

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 Not reported Pipe Material: Pipe Construction: Not reported Pipe Primary Release Detection: Not reported Pipe Second Release Detection: Not reported Not reported Pipe Corrosion Protection: Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported

Tank ID: 6233 Tank Name: Install Date: 12/31/1964

Pipe Tightness Test:

Tag Number:

Tank Actual Status Date:

Not reported

Not reported

8/6/1996

Capacity: 111 TO 1,100 Gallons Tank Upgrade Date: 1/1/0001

TankSystem Status: Closed in Place TankSystem Status Change Date:8/26/1996 Tank Status: Closed in Place 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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PYBUS STEEL COMPANY (Continued)

U000596976

1000276581

WAD980984785

RCRA-SQG

ALLSITES

MANIFEST

FINDS

Tank Tightness Test: Not reported Tank Corrosion Protection: Not reported Not reported Pipe Material: Not reported Pipe Construction: 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

CHELAN CNTY PUD 1 ROCKY REACH DAM D14 SSW **ROCKY REACH HYDRO. HIGHWAY 97A**

1/8-1/4 0.229 mi.

Actual:

Site 2 of 2 in cluster D 1209 ft.

RCRA-SQG: Relative:

Date form received by agency: 03/03/2008 Higher

WENATCHEE, WA 98801

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM Facility address: 6 MILES N OF WENATCHEE ON SR 9

663 ft. WENATCHEE, WA 98801

EPA ID: WAD980984785

Mailing address: PO BOX 1231 WENATCHEE, WA 98807-1231

Contact: JENNIFER BURNS

Contact address: PO BOX 1231

WENATCHEE, WA 98807-1231

Contact country: US

Contact telephone: (509)663-8121 Contact email: Not reported EPA Region: 10

Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of

hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

JENNIFER BURNS Owner/operator name: Owner/operator address: PO BOX 1231

WENATCHEE, WA 98807

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: District Owner/Operator Type: Operator Owner/Op start date: 07/22/1996 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: Nο

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

EDR ID Number

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: Nο 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: 12/31/2007

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM

Classification: Small Quantity Generator

Date form received by agency: 12/31/2005

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM

Classification: Small Quantity Generator

Date form received by agency: 12/31/2003

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM

Classification: Large Quantity Generator

Date form received by agency: 02/28/2002

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM

Classification: Large Quantity Generator

Date form received by agency: 06/07/2000

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM

Classification: Large Quantity Generator

Date form received by agency: 10/29/1998

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM

Classification: Large Quantity Generator

Date form received by agency: 03/01/1996

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM
Site name: CHELAN COUNTY PUD #1 - ROCKY REACH DAM

Classification: Large Quantity Generator

Date form received by agency: 03/31/1994

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM

Site name: CHELAN COUNTY PUD NO.1
Classification: Large Quantity Generator

Date form received by agency: 09/01/1993

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM

Site name: CHELAN COUNTY PUD #1
Classification: Large Quantity Generator

Date form received by agency: 12/31/1990

Facility name: CHELAN CNTY PUD 1 ROCKY REACH DAM

Site name: CHELAN COUNTY PUD #1

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

EDR ID Number

Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated:

Not reported

Area of violation: TSD IS-Container Use and Management

Date violation determined: 07/22/2008
Date achieved compliance: 07/22/2008
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/11/2008

Enf. disposition status: Action Satisfied (Case Closed)

Enf. disp. status date: 09/30/2008
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: State Statute or Regulation

Date violation determined: 07/22/2008
Date achieved compliance: 07/22/2008
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/11/2008

Enf. disposition status: Action Satisfied (Case Closed)

Enf. disp. status date: 09/30/2008
Enforcement lead agency: State
Proposed penalty amount: Not reported
Paid penalty amount: Not reported
Not reported

Regulation violated: Not reported

Area of violation: Universal Waste - Small Quantity Handlers

Date violation determined: 07/22/2008
Date achieved compliance: 09/30/2008
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/11/2008

Enf. disposition status: Action Satisfied (Case Closed)

Enf. disp. status date: 09/30/2008
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 515(6) abr 40 CFR 279.22(c)(1)

Area of violation: Generators - General

Date violation determined: 03/09/2004
Date achieved compliance: 03/15/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

Map ID MAP FINDINGS
Direction

Distance Elevation

Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

EDR ID Number

Paid penalty amount: Not reported

Regulation violated: SR - 350(3) arb 200(1)(e)
Area of violation: Generators - General

Date violation determined: 03/09/2004
Date achieved compliance: 03/09/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 200(1)(d) arb 170(2)
Area of violation: Generators - General

Date violation determined: 03/09/2004
Date achieved compliance: 03/15/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 573(10)
Area of violation: Generators - General

Date violation determined: 03/09/2004
Date achieved compliance: 03/15/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL Enforcement action date: 04/16/2004

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 515(6)(a)(i)
Area of violation: Generators - General

Date violation determined: 03/09/2004
Date achieved compliance: 04/23/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

EDR ID Number

Regulation violated: SR - 070(3) arb 170(1) Area of violation: Generators - General

Date violation determined: 03/09/2004 Date achieved compliance: 03/17/2004 Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 07/22/2008

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Universal Waste - Small Quantity Handlers

Date achieved compliance: 09/30/2008 Evaluation lead agency: State

Evaluation date: 07/22/2008

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: State Statute or Regulation

Date achieved compliance: 07/22/2008 Evaluation lead agency: State

Evaluation date: 07/22/2008

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-Container Use and Management

Date achieved compliance: 07/22/2008 Evaluation lead agency: State

Evaluation date: 03/09/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 03/17/2004 Evaluation lead agency: State

Evaluation date: 03/09/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 04/23/2004 Evaluation lead agency: State

Evaluation date: 03/09/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 03/09/2004 Evaluation lead agency: State

Evaluation date: 03/09/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 03/15/2004 Evaluation lead agency: State Map ID MAP FINDINGS
Direction

Distance Elevation

ation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

EDR ID Number

Evaluation date: 10/11/2000

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/28/1995

Evaluation: COMPLIANCE ASSISTANCE VISIT

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

FINDS:

Registry ID: 110008218231

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.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

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: 73155162

Latitude: 47.48895999999999

Longitude: -120.31654

Geographic location identifier (alias facid): 73155162

Facility Name: Chelan Cnty PUD 1 Rocky Reach Dam

Latitude Decimal Degrees: 47.48895999999999

Longitude Decimal Degrees: -120.31654

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): 73155162
Interaction (Aka Env Int) Type Code: ENFORFNL
Interaction (Aka Env Int) Description: Enforcement Final

Interaction Status:

Federal Program Indentifier: Not reported Interaction Start Date: 9/22/2005

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

Interaction End Date: Not reported Not reported prgm_facil: W2R cur_sys_pr: DMS cur_sys_nm:

Geographic Location Identifier (Alias Facid): 73155162 Interaction (Aka Env Int) Type Code: **HWG**

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD980984785 7/1/1986 Interaction Start Date: Interaction End Date: Not reported Not reported prgm_facil: **HAZWASTE** cur_sys_pr: cur_sys_nm: **TURBOWASTE**

Geographic Location Identifier (Alias Facid): 73155162 Interaction (Aka Env Int) Type Code: **HWP**

Interaction (Aka Env Int) Description: Hazardous Waste Planner

Interaction Status:

WAD980984785 Federal Program Indentifier: Interaction Start Date: 1/1/1992 Interaction End Date: Not reported prgm_facil: Not reported HAZWASTE cur_sys_pr: **HWPPRT** cur_sys_nm:

WA MANIFEST:

Facility Site ID Number: 73155162 SWC Desc: Not reported FWC Desc: D007, D008, D006 Form Comm: Not reported Data Year: Not reported Permit by Rule: False Treatment by Generator: False Mixed radioactive waste: False Importer of hazardous waste: False Immediate recycler: False

Treatment/Storage/Disposal/Recycling Facility: False Generator of dangerous fuel waste: False Generator marketing to burner: False "Other marketers (i.e., blender, distributor, etc.)": False Utility boiler burner: False False Industry boiler burner: Industrial Furnace: False Smelter defferal: False Universal waste - batteries - generate: False Universal waste - thermostats - generate: False Universal waste - mercury - generate: False False Universal waste - lamps - generate: 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

Direction Distance Elevation

on Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

EDR ID Number

Off-specification used oil burner - industrial boiler: False Off-specification used oil burner - industrial furnace: False

 EPA ID:
 WAD980984785

 Facility Address 2:
 Not reported

 TAX REG NBR:
 048003756

 NAICS CD:
 221111

 BUSINESS TYPE:
 Not reported

 MAIL NAME:
 Chelan Co PUD No 1

MAIL ADDR LINE1: PO Box 1231
MAIL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Chelan Co PUD No 1

LEGAL ORG TYPE: District
LEGAL ADDR LINE1: PO BOX 1231

LEGAL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: (509)663-8121
LEGAL EFFECTIVE DATE: 7/22/1996

LAND ORG NAME: Chelan Co PUD No 1

LAND ORG TYPE: District
LAND PERSON NAME: Not reported
LAND ADDR LINE1: PO BOX 1231

LAND CITY, ST, ZIP: WENATCHEE, WA 98807-1231

LAND COUNTRY: UNITED STATES
LAND PHONE NBR: (509)663-8121
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: District
OPERATOR ADDR LINE1: PO BOX 1231

OPERATOR CITY,ST,ZIP: WENATCHEE, WA 98807-1231

OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: (509)663-8121
OPERATOR EFFECTIVE DATE: 07/22/96
SITE CONTACT NAME: Jennifer Burns
SITE CONTACT ADDR LINE1: PO BOX 1231

SITE CONTACT ZIP: WENATCHEE, WA 98807-1231

SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: (509)663-8121
SITE CONTACT EMAIL: Not reported
FORM CONTACT NAME: Jennifer Burns
FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY,ST,ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: UNITED STATES FORM CONTACT PHONE NBR: (509)663-8121

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org

MQG GEN STATUS CD: 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 FACLTY: False USED OIL PROCESSOR: False

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

EDR ID Number

USED OIL REREFINER: False

USED OIL FUEL MRKTR DIRECTS SHPMNTS: False USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 73155162 SWC Desc: Not reported FWC Desc: D007, D008, D006 Form Comm: Not reported Data Year: Not reported Permit by Rule: **FALSE** Treatment by Generator: **FALSE** Mixed radioactive waste: **FALSE** Importer of hazardous waste: **FALSE** Immediate recycler: **FALSE**

Treatment/Storage/Disposal/Recycling Facility: **FALSE** Generator of dangerous fuel waste: **FALSE** Generator marketing to burner: **FALSE** "Other marketers (i.e., blender, distributor, etc.)": **FALSE** Utility boiler burner: **FALSE** Industry boiler burner: **FALSE** Industrial Furnace: **FALSE** Smelter defferal: **FALSE** Universal waste - batteries - generate: **FALSE** Universal waste - thermostats - generate: **FALSE** Universal waste - mercury - generate: **FALSE** Universal waste - lamps - generate: **FALSE** Universal waste - batteries - accumulate: **FALSE** Universal waste - thermostats - accumulate: **FALSE** Universal waste - mercury - accumulate: **FALSE FALSE** Universal waste - lamps - accumulate: 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:
 WAD980984785

 Facility Address 2:
 Not reported

 TAX REG NBR:
 048003756

 NAICS CD:
 221111

 BUSINESS TYPE:
 Not reported

 MAIL NAME:
 Chelan Co PUD No 1

MAIL ADDR LINE1: PO Box 1231

MAIL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Chelan Co PUD No 1

LEGAL ORG TYPE: District

LEGAL ADDR LINE1: PO BOX 1231

LEGAL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: (509)663-8121
LEGAL EFFECTIVE DATE: 7/22/1996
LAND ORG NAME: Chelan Co PUD No 1

LAND ORG TYPE: District
LAND PERSON NAME: Not reported
LAND ADDR LINE1: PO BOX 1231

LAND CITY,ST,ZIP: WENATCHEE, WA 98807-1231

LAND COUNTRY: UNITED STATES LAND PHONE NBR: (509)663-8121

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

OPERATOR ORG NAME: Not reported OPERATOR ORG TYPE: District PO BOX 1231 **OPERATOR ADDR LINE1:**

WENATCHEE, WA 98807-1231 OPERATOR CITY, ST, ZIP:

OPERATOR COUNTRY: UNITED STATES OPERATOR PHONE NBR: (509)663-8121 OPERATOR EFFECTIVE DATE: 7/22/1996 SITE CONTACT NAME: Jennifer Burns SITE CONTACT ADDR LINE1: PO BOX 1231

SITE CONTACT ZIP: WENATCHEE, WA 98807-1231

SITE CONTACT COUNTRY: **UNITED STATES** SITE CONTACT PHONE NBR: (509)663-8121 SITE CONTACT EMAIL: Not reported FORM CONTACT NAME: Jennifer Burns FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY, ST, ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: **UNITED STATES** FORM CONTACT PHONE NBR: (509)663-8121

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org

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: 73155162 SWC Desc: WP01

D006, D008, D009, D001, D007, D002, F003, F005 FWC Desc:

Form Comm: Not reported 2009 Data Year: 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

Direction Distance Elevation

ce EDR ID Number ion Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

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: WAD980984785

Facility Address 2: Not reported
TAX REG NBR: 048003756
NAICS CD: 221111
BUSINESS TYPE: Not reported
MAIL NAME: Chelan Co. PLID

MAIL NAME: Chelan Co PUD No 1

MAIL ADDR LINE1: PO Box 1231

MAIL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Chelan Co PUD No 1

LEGAL ORG TYPE: District

LEGAL ADDR LINE1: PO BOX 1231

LEGAL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: (509)663-8121
LEGAL EFFECTIVE DATE: 7/22/1996

LAND ORG NAME: Chelan Co PUD No 1

LAND ORG TYPE: District
LAND PERSON NAME: Not reported
LAND ADDR LINE1: PO BOX 1231

LAND CITY, ST, ZIP: WENATCHEE, WA 98807-1231

LAND COUNTRY: UNITED STATES
LAND PHONE NBR: (509)663-8121
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: District
OPERATOR ADDR LINE1: PO BOX 1231

OPERATOR CITY,ST,ZIP: WENATCHEE, WA 98807-1231

OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: (509)663-8121
OPERATOR EFFECTIVE DATE: 7/22/1996
SITE CONTACT NAME: Jennifer Burns
SITE CONTACT ADDR LINE1: PO BOX 1231

SITE CONTACT ZIP: WENATCHEE, WA 98807-1231

SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: (509)663-8121
SITE CONTACT EMAIL: Not reported
FORM CONTACT NAME: Jennifer Burns
FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY, ST, ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: UNITED STATES FORM CONTACT PHONE NBR: (509)663-8121

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org

GEN STATUS CD: LQG
MONTHLY GENERATION: False
BATCH GENERATION: True
ONE TIME GENERATION: False
TRANSPORTS OWN WASTE: False
TRANSPORTS OTHRS WASTE: False

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

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: 73155162 SWC Desc: Not reported FWC Desc: D007, D008, D006 Form Comm: Not reported Data Year: Not reported

Permit by Rule: No Treatment by Generator: No Mixed radioactive waste: No Importer of hazardous waste: No Immediate recycler: No

Treatment/Storage/Disposal/Recycling Facility: No Generator of dangerous fuel waste: No Generator marketing to burner: No "Other marketers (i.e., blender, distributor, etc.)": No Utility boiler burner: No Industry boiler burner: No Industrial Furnace: No Smelter defferal: No Universal waste - batteries - generate: No Universal waste - thermostats - generate: No Universal waste - mercury - generate: No Universal waste - lamps - generate: No Universal waste - batteries - accumulate: No Universal waste - thermostats - accumulate: No Universal waste - mercury - accumulate: No Universal waste - lamps - accumulate: No Destination Facility for Universal Waste: No Off-specification used oil burner - utility boiler: No Off-specification used oil burner - industrial boiler: No Off-specification used oil burner - industrial furnace: No EPA ID: WAD980984785

Facility Address 2: Not reported 048003756 TAX REG NBR: 221111 NAICS CD: **BUSINESS TYPE:** Not reported MAIL NAME: Chelan Co PUD No 1

MAIL ADDR LINE1: PO Box 1231 MAIL CITY, ST, ZIP: WENATCHEE, WA 98807-1231

UNITED STATES MAIL COUNTRY: LEGAL ORG NAME: Chelan Co PUD No 1

LEGAL ORG TYPE: District LEGAL ADDR LINE1: PO BOX 1231

LEGAL CITY, ST, ZIP: WENATCHEE, WA 98807-1231

LEGAL COUNTRY: **UNITED STATES** LEGAL PHONE NBR: (509)663-8121 LEGAL EFFECTIVE DATE: 7/22/1996

Direction Distance

EDR ID Number Elevation **EPA ID Number** Site Database(s)

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

LAND ORG NAME: Chelan Co PUD No 1

LAND ORG TYPE: District LAND PERSON NAME: Not reported PO BOX 1231 LAND ADDR LINE1:

LAND CITY, ST, ZIP: WENATCHEE, WA 98807-1231

LAND COUNTRY: **UNITED STATES** LAND PHONE NBR: (509)663-8121 OPERATOR ORG NAME: Not reported **OPERATOR ORG TYPE:** District **OPERATOR ADDR LINE1:** PO BOX 1231

WENATCHEE, WA 98807-1231 OPERATOR CITY, ST, ZIP:

OPERATOR COUNTRY: **UNITED STATES** OPERATOR PHONE NBR: (509)663-8121 OPERATOR EFFECTIVE DATE: 7/22/1996 SITE CONTACT NAME: Jennifer Burns SITE CONTACT ADDR LINE1: PO BOX 1231

WENATCHEE. WA 98807-1231 SITE CONTACT ZIP:

SITE CONTACT COUNTRY: **UNITED STATES** SITE CONTACT PHONE NBR: (509)663-8121 SITE CONTACT EMAIL: Not reported Jennifer Burns FORM CONTACT NAME: FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY.ST.ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: **UNITED STATES** FORM CONTACT PHONE NBR: (509)663-8121

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org

GEN STATUS CD: MQG MONTHLY GENERATION: No **BATCH GENERATION:** Yes ONE TIME GENERATION: No TRANSPORTS OWN WASTE: No TRANSPORTS OTHRS WASTE: No RECYCLER ONSITE: No TRANSFER FACILITY:

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: Nο USED OIL FUEL MRKTR MEETS SPECS: No

Facility Site ID Number: 73155162 SWC Desc: WT02

FWC Desc: D001, D007, D008, D039, D040

Form Comm: Not reported Data Year: 2008 Permit by Rule: False Treatment by Generator: False Mixed radioactive waste: False Importer of hazardous waste: False Immediate recycler: False

Treatment/Storage/Disposal/Recycling Facility: False Generator of dangerous fuel waste: False Generator marketing to burner: False "Other marketers (i.e., blender, distributor, etc.)": False

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

EDR ID Number

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: WAD980984785

Facility Address 2: Not reported

TAX REG NBR: 048003756

NAICS CD: 221111

BUSINESS TYPE: Not reported

MAIL NAME: Chelan Co PUD No 1

MAIL ADDR LINE1: PO Box 1231

MAIL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Chelan Co PUD No 1

LEGAL ORG TYPE: District
LEGAL ADDR LINE1: PO BOX 1231

LEGAL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: (509)663-8121
LEGAL EFFECTIVE DATE: 7/22/1996

LAND ORG NAME: Chelan Co PUD No 1

LAND ORG TYPE: District
LAND PERSON NAME: Not reported
LAND ADDR LINE1: PO BOX 1231

LAND CITY,ST,ZIP: WENATCHEE, WA 98807-1231

LAND COUNTRY: UNITED STATES
LAND PHONE NBR: (509)663-8121
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: District
OPERATOR ADDR LINE1: PO BOX 1231

OPERATOR CITY, ST, ZIP: WENATCHEE, WA 98807-1231

OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: (509)663-8121
OPERATOR EFFECTIVE DATE: 7/22/1996
SITE CONTACT NAME: Jennifer Burns
SITE CONTACT ADDR LINE1: PO BOX 1231

SITE CONTACT ZIP: WENATCHEE, WA 98807-1231

SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: (509)663-8121
SITE CONTACT EMAIL: Not reported
FORM CONTACT NAME: Jennifer Burns
FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY, ST, ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: UNITED STATES FORM CONTACT PHONE NBR: (509)663-8121

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHELAN CNTY PUD 1 ROCKY REACH DAM (Continued)

1000276581

ALLSITES

UST

U001126437

N/A

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org GEN STATUS CD: SQG 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: **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 additional WA MANIFEST: detail in the EDR Site Report.

15 **CENTRAL MAINTENANCE** SSW **HWY 97 & ROCKY REACH DAM** 1/8-1/4 WENATCHEE, WA 98801

0.238 mi. 1255 ft.

ALLSITES: Relative:

Facility Id: 55551972 Higher

Latitude: 47.526355719999998 Actual: Longitude: -120.3051767

664 ft.

Geographic location identifier (alias facid): 55551972 Facility Name: **CENTRAL MAINTENANCE** Latitude Decimal Degrees: 47.526355719999998

Longitude Decimal Degrees: -120.3051767

Coordinate Point Areal Extent Code: Horizontal Accuracy Code: 4 Coordinate Point Geographic Position Code: 5 Location Verified Code:

Geographic Location Identifier (Alias Facid): 55551972 Interaction (Aka Env Int) Type Code: LUST Interaction (Aka Env Int) Description: **LUST Facility**

Interaction Status: Federal Program Indentifier: 10642 Interaction Start Date: 12/20/1996 1/18/2006 Interaction End Date: Not reported prgm_facil: TOXICS cur_sys_pr: ISIS cur_sys_nm:

55551972 Geographic Location Identifier (Alias Facid): Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

10642 Federal Program Indentifier: Interaction Start Date: 1/27/2000 Interaction End Date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CENTRAL MAINTENANCE (Continued)

U001126437

EDR ID Number

prgm_facil:Not reportedcur_sys_pr:TOXICScur_sys_nm:ISIS

UST:

Facility ID: 55551972
Site ID: 10642
Lat Deg: 47
Lat Min: 31

Lat Sec: 34.8805919999927

Long Deg: -120 Long Min: 18

Long Sec: 18.6361200000147 UBI: 0480037560010004 Phone Number: 5096614318

 Tank ID:
 40748

 Tank Name:
 CM-1A

 Install Date:
 8/1/1993

Capacity: 5,000 to 9,999 Gallons

Tank Upgrade Date: 5/5/1998
TankSystem Status: Operational
TankSystem Status Change Date:8/26/1996
Tank Status: Operational
Tank Permit Expiration Date: 6/30/2011
Tank Closure Date: 1/1/0001

Tank Pumping System: Suction System Pump Check Valve

Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Overfill Alarm
Tank Material: Steel

Tank Construction: Double Wall Tank

Tank Tightness Test: Part of Automatic Tank Gauging (ATG) System

Tank Corrosion Protection: Sacrificial Anode Pipe Material: Sacrificial Anode 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: Automatic Tank Gauging

Tank Second Release Detection: Not reported Pipe Tightness Test: No Tank Actual Status Date: 8/6/1996 Tag Number: A8226

 Tank ID:
 42363

 Tank Name:
 CM-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

Direction Distance

Elevation Site Database(s) EPA ID Number

CENTRAL MAINTENANCE (Continued)

U001126437

EDR ID Number

Tank Spill Prevention: Not reported Tank Overfill Prevention: Not reported Tank Material: Steel

Single Wall Tank Tank Construction: Tank Tightness Test: Not reported Not reported Tank Corrosion Protection: Not reported Pipe Material: 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: 3/14/1993 Tag Number: A8226

 Tank ID:
 42399

 Tank Name:
 CM-4

 Install Date:
 12/31/1964

Capacity: 111 TO 1,100 Gallons

Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date:7/14/2010
Tank Status: Removed
Tank Permit Expiration Date: 6/30/1997
Tank Closure Date: 9/23/1994

Tank Pumping System: Gravity Delivery System (No Pump)

Tank Spill Prevention:
Tank Overfill Prevention:
None
None
Tank Material:
Not reported
Single Wall Tank

Tank Tightness Test: Annual
Tank Corrosion Protection: None
Pipe Material: Not reported
Pipe Construction: Single Wall Pipe

Pipe Primary Release Detection: Other
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: None

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 8/6/1996 Tag Number: A8226

 Tank ID:
 42407

 Tank Name:
 CM-3

 Install Date:
 12/31/1964

Capacity: 1,101 to 2,000 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

Direction Distance

Elevation Site Database(s) EPA ID Number

CENTRAL MAINTENANCE (Continued)

U001126437

EDR ID Number

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: Not reported Not reported Pipe Construction: 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 3/14/1993 Tank Actual Status Date: Tag Number: A8226

 Tank ID:
 42454

 Tank Name:
 CM-1

 Install Date:
 12/31/1964

Capacity: 1,101 to 2,000 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: Single Wall Tank Not reported Tank Tightness Test: 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 3/14/1993 Tank Actual Status Date: Tag Number: A8226

16 WORLD PUBLISHING COMPANY

SW 14 N MISSION ST 1/4-1/2 WENATCHEE, WA 98807

0.263 mi. 1388 ft.

Relative: ALLSITES:

Higher Facility Id: 94244719

Latitude: 47.424168791520898

Actual: Longitude: -120.31415287943901

681 ft. Geographic location identifier (alias facid): 94244719

TC2892831.2s Page 51

U001122842

N/A

ALLSITES

UST

Direction Distance Elevation

tance EDR ID Number vation Site Database(s) EPA ID Number

WORLD PUBLISHING COMPANY (Continued)

U001122842

Facility Name: WORLD PUBLISHING COMPANY

Latitude Decimal Degrees: 47.424168791500001 Longitude Decimal Degrees: -120.31415287900001

Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 13
Coordinate Point Geographic Position Code: 5
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 94244719 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

2669
Interaction Start Date:

12/15/1999
Interaction End Date:

Program_facil:

Not reported our_sys_pr:

TOXICS

Cur_sys_nm:

ISIS

UST:

 Facility ID:
 94244719

 Site ID:
 2669

 Lat Deg:
 47

 Lat Min:
 25

Lat Sec: 27.0076494750811

Long Deg: -120 Long Min: 18

 Long Sec:
 50.9503659804761

 UBI:
 Not reported

 Phone Number:
 5096635161

Tank ID: 15850
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: 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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WORLD PUBLISHING COMPANY (Continued)

U001122842

Tank Actual Status Date: 8/6/1996 Tag Number: Not reported

Tank ID: 16130 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: 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 8/6/1996 Tank Actual Status Date: Tag Number: Not reported

E17 **HAYES CLEANERS** RCRA-CESQG 1000220759 wsw 121 N MISSION **FINDS** WAD982658098

1/4-1/2 WENATCHEE, WA 98801 0.267 mi.

MANIFEST Site 1 of 2 in cluster E 1407 ft. **Inactive Drycleaners**

Relative:

Actual:

RCRA-CESQG:

Date form received by agency: 01/11/2008 Higher

Facility name: HAYES CLEANERS Facility address: 121 N MISSION

679 ft. WENATCHEE, WA 98801 WAD982658098 EPA ID:

Mailing address: 121 N MISSION ST

WENATCHEE, WA 98801-2228

Contact: LONNIE P BAIRD Contact address: 121 N MISSION ST

WENATCHEE, WA 98801-2228

Contact country: US

Contact telephone: (509)662-8555 Contact email: Not reported EPA Region: 10 Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar

ALLSITES

Direction
Distance
Elevation

Site Database(s) EPA ID Number

HAYES CLEANERS (Continued)

1000220759

EDR ID Number

month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: LONNIE BAIRD
Owner/operator address: 121 N MISSION ST

WENATCHEE, WA 98801

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 09/03/1996 Owner/Op end date: Not reported

Handler Activities Summary:

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

Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 12/31/2007

Facility name: HAYES CLEANERS
Classification: Not a generator, verified

Date form received by agency: 12/31/2005

Facility name: HAYES CLEANERS
Classification: Not a generator, verified

Date form received by agency: 12/31/2003

Facility name: HAYES CLEANERS
Classification: Not a generator, verified

Date form received by agency: 01/11/2002

Facility name: HAYES CLEANERS

Direction Distance

Elevation Site Database(s) EPA ID Number

HAYES CLEANERS (Continued)

1000220759

EDR ID Number

Classification: Large Quantity Generator

Date form received by agency: 01/31/2000

Facility name: HAYES CLEANERS
Classification: Large Quantity Generator

Date form received by agency: 03/01/1996

Facility name: HAYES CLEANERS
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: SR - 141(1)

Area of violation: Generators - General

Date violation determined: 09/29/2004
Date achieved compliance: 09/29/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 11/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: SR - 201(2)(c)
Area of violation: Generators - General

Date violation determined: 05/17/2002
Date achieved compliance: 06/13/2002
Violation lead agency: State

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/07/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 200(1)(c)
Area of violation: Generators - General

Date violation determined: 05/17/2002
Date achieved compliance: 05/22/2002
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/07/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 630(6)

Area of violation: Generators - General

Date violation determined: 05/17/2002 Date achieved compliance: 05/22/2002

Direction Distance Elevation

tance EDR ID Number vation Site Database(s) EPA ID Number

HAYES CLEANERS (Continued)

1000220759

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/07/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 320(1)

Area of violation: Generators - General

Date violation determined: 05/17/2002
Date achieved compliance: 06/13/2002
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/07/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: SR - 200(1)(d)
Area of violation: Generators - General

Date violation determined: 05/17/2002
Date achieved compliance: 05/22/2002
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/07/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 360

Area of violation: Generators - General

Date violation determined: 05/17/2002
Date achieved compliance: 06/13/2002
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/07/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 04/17/1990
Date achieved compliance: 06/26/1990
Violation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

HAYES CLEANERS (Continued)

1000220759

EDR ID Number

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 05/04/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 06/30/2006

Evaluation: COMPLIANCE ASSISTANCE VISIT

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 09/29/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 09/29/2004 Evaluation lead agency: State

Evaluation date: 05/17/2002

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 06/13/2002 Evaluation lead agency: State

Evaluation date: 05/17/2002

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 05/22/2002 Evaluation lead agency: State

Evaluation date: 04/17/1990

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 06/26/1990 Evaluation lead agency: State

FINDS:

Registry ID: 110000828980

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

Direction Distance

Elevation Site Database(s) EPA ID Number

HAYES CLEANERS (Continued)

1000220759

EDR ID Number

corrective action activities required under RCRA.

ALLSITES:

Facility Id: 84738365

 Latitude:
 47.425669999999997

 Longitude:
 -120.31404000000001

 Geographic location identifier (alias facid):
 84738365

 Facility Name:
 Hayes Cleaners

 Latitude Decimal Degrees:
 47.425669999999997

 Longitude Decimal Degrees:
 -120.31404000000001

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): 84738365 Interaction (Aka Env Int) Type Code: HWP

Interaction (Aka Env Int) Description: Hazardous Waste Planner

Interaction Status:

Federal Program Indentifier: WAD982658098
Interaction Start Date: 1/1/1993
Interaction End Date: 12/31/1993
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: HWPPRT

Geographic Location Identifier (Alias Facid): 84738365
Interaction (Aka Env Int) Type Code: ENFORFNL
Interaction (Aka Env Int) Description: Enforcement Final

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:
Interaction

Geographic Location Identifier (Alias Facid): 84738365 Interaction (Aka Env Int) Type Code: AQPR

Interaction (Aka Env Int) Description: Air Qual Periodic Reg

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:
Interaction

Geographic Location Identifier (Alias Facid): 84738365 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD982658098
Interaction Start Date: 6/26/1989
Interaction End Date: 12/31/2007

prgm_facil: HAYES CLEANERS

Direction Distance

Elevation Site Database(s) EPA ID Number

HAYES CLEANERS (Continued)

1000220759

EDR ID Number

cur_sys_pr: HAZWASTE cur_sys_nm: TURBOWASTE

WA MANIFEST:

84738365 Facility Site ID Number: SWC Desc: Not reported FWC Desc: Not reported Form Comm: Not reported Data Year: Not reported Permit by Rule: False Treatment by Generator: False Mixed radioactive waste: False Importer of hazardous waste: False Immediate recycler: False

Treatment/Storage/Disposal/Recycling Facility: False Generator of dangerous fuel waste: False Generator marketing to burner: False "Other marketers (i.e., blender, distributor, etc.)": False Utility boiler burner: False Industry boiler burner: False Industrial Furnace: False Smelter defferal: False Universal waste - batteries - generate: False Universal waste - thermostats - generate: False Universal waste - mercury - generate: False Universal waste - lamps - generate: False Universal waste - batteries - accumulate: False Universal waste - thermostats - accumulate: False Universal waste - mercury - accumulate: False Universal waste - lamps - accumulate: False Destination Facility for Universal Waste: False Off-specification used oil burner - utility boiler: False Off-specification used oil burner - industrial boiler: False Off-specification used oil burner - industrial furnace: False EPA ID: WAD982658098

Facility Address 2: Not reported
TAX REG NBR: 601415836
NAICS CD: 81232
BUSINESS TYPE: Not reported
MAIL NAME: Hayes Cleaners
MAIL ADDR LINE1: 121 N MISSION ST

MAIL CITY,ST,ZIP: WENATCHEE, WA 98801-2228

MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Hayes Cleaners
LEGAL ORG TYPE: Private

LEGAL ADDR LINE1: 121 N MISSION ST

LEGAL CITY,ST,ZIP: WENATCHEE, WA 98801-2228

LEGAL COUNTRY:

LEGAL PHONE NBR:

LEGAL EFFECTIVE DATE:

LAND ORG NAME:

LAND ORG TYPE:

LAND PERSON NAME:

LAND ADDR LINE1:

UNITED STATES

(509)662-8555

2/2/2001

Not reported

Private

Lonnie P Baird

121 N MISSION ST

LAND CITY,ST,ZIP: WENATCHEE, WA 98801-2228

LAND COUNTRY: UNITED STATES

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

HAYES CLEANERS (Continued)

1000220759

LAND PHONE NBR: (509)662-8555 OPERATOR ORG NAME: Not reported **OPERATOR ORG TYPE:** Private

121 N MISSION ST **OPERATOR ADDR LINE1:**

OPERATOR CITY, ST, ZIP: WENATCHEE, WA 98801-2228

OPERATOR COUNTRY: **UNITED STATES** OPERATOR PHONE NBR: (509)662-8555 OPERATOR EFFECTIVE DATE: 09/03/96 SITE CONTACT NAME: Lonnie P Baird SITE CONTACT ADDR LINE1: 121 N MISSION ST

WENATCHEE, WA 98801-2228 SITE CONTACT ZIP:

SITE CONTACT COUNTRY: **UNITED STATES** SITE CONTACT PHONE NBR: (509)662-8555 SITE CONTACT EMAIL: Not reported FORM CONTACT NAME: Lonnie P Baird FORM CONTACT ADDR LINE1: 121 N MISSION ST

FORM CONTACT CITY.ST.ZIP: WENATCHEE, WA 98801-2228

FORM CONTACT COUNTRY: **UNITED STATES** FORM CONTACT PHONE NBR: (509)662-8555 FORM CONTACT EMAIL: Not reported GEN STATUS CD: SQG 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 FACLTY: False USED OIL PROCESSOR: False

USED OIL FUEL MRKTR DIRECTS SHPMNTS: False USED OIL FUEL MRKTR MEETS SPECS: False

False

Facility Site ID Number: 84738365 SWC Desc: Not reported FWC Desc: Not reported Not reported Form Comm: Data Year: Not reported Permit by Rule: No

Treatment by Generator: No Mixed radioactive waste: No Importer of hazardous waste: No Immediate recycler: No

USED OIL REREFINER:

Treatment/Storage/Disposal/Recycling Facility: No Generator of dangerous fuel waste: No Generator marketing to burner: No "Other marketers (i.e., blender, distributor, etc.)": No Utility boiler burner: No Industry boiler burner: No Industrial Furnace: No Smelter defferal: No Universal waste - batteries - generate: No Universal waste - thermostats - generate: No

Direction Distance

Elevation Site Database(s) EPA ID Number

HAYES CLEANERS (Continued)

1000220759

EDR ID Number

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: Nο Off-specification used oil burner - industrial boiler: No Off-specification used oil burner - industrial furnace: No WAD982658098 EPA ID:

Facility Address 2: Not reported
TAX REG NBR: 601415836
NAICS CD: 81232
BUSINESS TYPE: Not reported
MAIL NAME: Hayes Cleaners
MAIL ADDR LINE1: 121 N MISSION ST

MAIL CITY,ST,ZIP: WENATCHEE, WA 98801-2228

MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Hayes Cleaners
LEGAL ORG TYPE: Private

LEGAL ADDR LINE1: 121 N MISSION ST

LEGAL CITY, ST, ZIP: WENATCHEE, WA 98801-2228

LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: (509)662-8555
LEGAL EFFECTIVE DATE: 2/2/2001
LAND ORG NAME: Not reported
LAND ORG TYPE: Private
LAND PERSON NAME: Lonnie P Baird

LAND ADDR LINE1: 121 N MISSION ST

LAND CITY,ST,ZIP: WENATCHEE, WA 98801-2228
LAND COUNTRY: UNITED STATES
LAND PHONE NBR: (509)662-8555

OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: Private

OPERATOR ADDR LINE1: 121 N MISSION ST

OPERATOR CITY,ST,ZIP: WENATCHEE, WA 98801-2228

OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: (509)662-8555
OPERATOR EFFECTIVE DATE: 9/3/1996
SITE CONTACT NAME: Lonnie P Baird
SITE CONTACT ADDR LINE1: 121 N MISSION ST

SITE CONTACT ZIP: WENATCHEE, WA 98801-2228

SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: (509)662-8555
SITE CONTACT EMAIL: Not reported
FORM CONTACT NAME: Lonnie P Baird
FORM CONTACT ADDR LINE1: 121 N MISSION ST

FORM CONTACT CITY, ST, ZIP: WENATCHEE, WA 98801-2228

FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: (509)662-8555
FORM CONTACT EMAIL: Not reported
GEN STATUS CD: SQG

GEN STATUS CD: SQG
MONTHLY GENERATION: Yes
BATCH GENERATION: No
ONE TIME GENERATION: No
TRANSPORTS OWN WASTE: No

Direction Distance

Elevation Site Database(s) EPA ID Number

FALSE

HAYES CLEANERS (Continued)

1000220759

EDR ID Number

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: 84738365 SWC Desc: Not reported FWC Desc: Not reported Form Comm: Not reported Not reported Data Year: 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:

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 FALSE** Universal waste - mercury - accumulate: 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: WAD982658098
Facility Address 2: Not reported
TAX REG NBR: 601415836
NAICS CD: 81232
BUSINESS TYPE: Not reported
MAIL NAME: Hayes Cleaners
MAIL ADDR LINE1: 121 N MISSION ST

MAIL CITY,ST,ZIP: WENATCHEE, WA 98801-2228

MAIL COUNTRY: UNITED STATES LEGAL ORG NAME: Hayes Cleaners

LEGAL ORG TYPE: Private
LEGAL ADDR LINE1: 121 N MISSION ST

LEGAL CITY,ST,ZIP: WENATCHEE, WA 98801-2228

LEGAL COUNTRY: UNITED STATES LEGAL PHONE NBR: (509)662-8555

Direction Distance

EDR ID Number Elevation **EPA ID Number** Site Database(s)

HAYES CLEANERS (Continued)

1000220759

LEGAL EFFECTIVE DATE: 2/2/2001 LAND ORG NAME: Not reported Private LAND ORG TYPE: LAND PERSON NAME: Lonnie P Baird LAND ADDR LINE1: 121 N MISSION ST

LAND CITY, ST, ZIP: WENATCHEE, WA 98801-2228

LAND COUNTRY: **UNITED STATES** (509)662-8555 LAND PHONE NBR: **OPERATOR ORG NAME:** Not reported **OPERATOR ORG TYPE:** Private

121 N MISSION ST OPERATOR ADDR LINE1:

OPERATOR CITY, ST, ZIP: WENATCHEE, WA 98801-2228

OPERATOR COUNTRY: UNITED STATES OPERATOR PHONE NBR: (509)662-8555 OPERATOR EFFECTIVE DATE: 9/3/1996 SITE CONTACT NAME: Lonnie P Baird 121 N MISSION ST SITE CONTACT ADDR LINE1:

SITE CONTACT ZIP: WENATCHEE, WA 98801-2228

SITE CONTACT COUNTRY: **UNITED STATES** SITE CONTACT PHONE NBR: (509)662-8555 SITE CONTACT EMAIL: Not reported FORM CONTACT NAME: Lonnie P Baird FORM CONTACT ADDR LINE1: 121 N MISSION ST

FORM CONTACT CITY, ST, ZIP: WENATCHEE, WA 98801-2228

FORM CONTACT COUNTRY: **UNITED STATES** FORM CONTACT PHONE NBR: (509)662-8555 FORM CONTACT EMAIL: Not reported GEN STATUS CD: SQG 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 FACLTY: FALSE

USED OIL FUEL MRKTR DIRECTS SHPMNTS: **FALSE** USED OIL FUEL MRKTR MEETS SPECS: **FALSE**

FALSE FALSE

Inactive Drycleaners:

USED OIL PROCESSOR:

USED OIL REREFINER:

EPA I: WAD982658098 FS Id: 84738365 WAD982658098 Facility ID: NAICS Code: 601415836 Fed Waste Code Desc: Not reported State Waste Code Desc: Not reported TAX REG NBR: 81232 **BUSINESS TYPE:** Not reported MAIL NAME: Hayes Cleaners MAIL LINE1: 121 N MISSION ST MAIL LINE2: Not reported MAIL CITY: **WENATCHEE**

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

HAYES CLEANERS (Continued)

1000220759

EDR ID Number

MAIL STATE: WA
MAIL ZIP: 98801-2228
MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Hayes Cleaners

LEGAL PERSON FIRST NAME: Lonnie
LEGAL PERSON MIDDLE INIT: P
LEGAL PERSON LAST NAME: Baird

LEGAL LINE1: 121 N MISSION ST
LEGAL LINE2: Not reported
LEGAL CITY: WENATCHEE

LEGAL STATE: WA

98801-2228 LEGAL ZIP: LEGAL COUNTRY: **UNITED STATES** LEGAL PHONE NBR: (509)662-8555 LEGAL EFFECTIVE DATE: 2/2/2001 LEGAL ORGANIZATION TYPE: Private LAND ORG NAME: Not reported LAND PERSON FIRST NAME: Lonnie LAND PERSON MIDDLE INIT: Ρ LAND PERSON LAST NAME: Baird

121 N MISSION ST LAND LINE1: LAND LINE2: Not reported **WENATCHEE** LAND CITY: LAND STATE: WA LAND ZIP: 98801-2228 LAND COUNTRY: **UNITED STATES** LAND PHONE NBR: (509)662-8555 LAND ORGANIZATION TYPE: Private OPERATOR ORG NAME: Not reported OPERATOR PERSON FIRST NAME: Lonnie OPERATOR PERSON MIDDLE INIT: Р OPERATOR PERSON LAST NAME: Baird

OPERATOR LINE1: 121 N MISSION ST
OPERATOR LINE2: Not reported
OPERATOR CITY: WENATCHEE

OPERATOR STATE: WA

98801-2228 **OPERATOR ZIP: OPERATOR COUNTRY: UNITED STATES** OPERATOR PHONE NBR: (509)662-8555 OPERATOR EFFECTIVE DATE: 09/03/96 **OPERATOR ORGANIZATION TYPE:** Private SITE CONTACT FIRST NAME: Lonnie SITE CONTACT MIDDLE INIT: Ρ SITE CONTACT LAST NAME: Baird

SITE CONTACT LINE1: 121 N MISSION ST SITE CONTACT LINE2: Not reported SITE CONTACT CITY: **WENATCHEE** SITE CONTACT STATE: WA SITE CONTACT ZIP: 98801-2228 **UNITED STATES** SITE CONTACT COUNTRY: SITE CONTACT PHONE NBR: (509)662-8555 SITE CONTACT EMAIL: Not reported FORM CONTACT FIRST NAME: Lonnie

FORM CONTACT PIRST NAME:

FORM CONTACT MIDDLE INIT:

FORM CONTACT LAST NAME:

Baird

FORM CONTACT LINE1: 121 N MISSION ST FORM CONTACT LINE2: Not reported

Direction Distance Elevation

ance EDR ID Number ration Site Database(s) EPA ID Number

HAYES CLEANERS (Continued)

1000220759

FORM CONTACT CITY: WENATCHEE FORM CONTACT STATE: WA 98801-2228 FORM CONTACT ZIP: FORM CONTACT COUNTRY: **UNITED STATES** FORM CONTACT PHONE NBR: (509)662-8555 FORM CONTACT EMAIL: Not reported GEN STATUS CD: SQG MONTHLY GENERATION: F **BATCH GENERATION:** F ONE TIME GENERATION: F F TRANSPORTS OWN WASTE: TRANSPORTS OTHERS WASTE: F RECYCLER ONSITE: TRANSFER FACILITY: PBR: TBG: MIXED RADIOACTIVE: F IMPORTER: TSDR FACILITY: F IMMEDIATE RECYCLER: GEN DANG FUEL: GEN MARKET TO BURNER: F F GEN OTHER MARKETERS: UTILITY BOILER BURNER: INDUSTRY BOILER BURNER: F F FURNACE BURNER: SMELTER DEFERRAL: SMALL QTY EXEMPTION: OTHER EXEMPTION: Not reported UW BATTERY GEN: F UW THERMOSTATS GEN: **UW MERCURY GEN:** F UW LAMPS GEN: UW BATTERY ACCUM: F F UW THERMOSTATS ACCUM: F UW MERCURY ACCUM: UW LAMPS ACCUM: F UW DESTINATION FACILITY: F OFF SPEC UTILITY BOILER: F OFF SPEC INDUSTRY BOILER: F OFF SPEC FURNACE: **USED OIL TRANSPORTER:** F USED OIL TRANSFER FACILITY: F USED OIL PROCESSOR:

USED OIL REREFINER: F
USED OIL FUEL MARKETER DIR SHIPMENTS: F
USED OIL FUEL MARKETER MEETS SPECS: F
Comments: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

E18 **EBERLES LAUNDRY** FINDS 1007076585 **WSW** 122 N MISSION ST **ALLSITES** N/A

1/4-1/2 WENATCHEE, WA 98801 0.268 mi.

1417 ft. Site 2 of 2 in cluster E FINDS:

Relative:

Higher

Registry ID: 110015532431

Actual: 679 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.

ALLSITES:

Facility Id: 9141592

Latitude: 47.425660000000001 Longitude: -120.31408999999999 Geographic location identifier (alias facid): 9141592

Facility Name: **EBERLES LAUNDRY** Latitude Decimal Degrees: 47.425660000000001 Longitude Decimal Degrees: -120.31408999999999

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 8 Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 9141592 Interaction (Aka Env Int) Type Code: **AQPR**

Interaction (Aka Env Int) Description: Air Qual Periodic Reg

Interaction Status:

Federal Program Indentifier: Not reported Interaction Start Date: 10/30/1997 Not reported Interaction End Date: prgm_facil: Not reported **AIRQUAL** cur_sys_pr: **AIRSIS** cur_sys_nm:

19 **KPQ TRANSMITTER SITE & STUDIO UST 101976 ALLSITES** U001777948 wsw 32 N MISSION UST N/A

WENATCHEE, WA 98801 1/4-1/2

0.274 mi. 1447 ft.

ALLSITES: Relative:

Higher Facility Id: 22782644

47.424377999999997 Latitude:

Actual: Longitude: -120.314322

683 ft. Geographic location identifier (alias facid): 22782644

> Facility Name: KPQ TRANSMITTER SITE & STUDIO UST 101976

Latitude Decimal Degrees: 47.424377999999997

Longitude Decimal Degrees: -120.314322

Coordinate Point Areal Extent Code: 4

TC2892831.2s Page 66

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

KPQ TRANSMITTER SITE & STUDIO UST 101976 (Continued)

U001777948

Horizontal Accuracy Code: 13 Coordinate Point Geographic Position Code: 5 Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 22782644 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status: Federal Program Indentifier: 101976 Interaction Start Date: 2/8/2000 Interaction End Date: Not reported Not reported prgm_facil: TOXICS cur_sys_pr: cur_sys_nm: ISIS

UST:

Facility ID: 22782644 Site ID: 101976 Lat Deg: 47 Lat Min: 25

Lat Sec: 27.7607999999901

Long Deg: -120 Long Min: 18

51.5592000000152 Long Sec: UBI: Not reported Phone Number: 5096635121

Tank ID: 5179 Tank Name: 1 Install Date: 1/1/1960

Capacity: 111 TO 1,100 Gallons

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:11/22/1996 Tank Status: Removed Tank Permit Expiration Date: 1/1/0001 Tank Closure Date: 1/1/0001 Tank Pumping System: Not reported Tank Spill Prevention: None

Tank Overfill Prevention: None Tank Material: Not reported Tank Construction: Single Wall Tank Tank Tightness Test: Not reported Tank Corrosion Protection: None Pipe Material: Not reported Pipe Construction: Single Wall Pipe Pipe Primary Release Detection: Suction

Pipe Second Release Detection: Not reported Pipe Corrosion Protection: None Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported 8/6/1996 Tank Actual Status Date: Tag Number: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

20 **OLD CASCADE BLDG** RCRA-NonGen 1000166135 WNW 239-253 N WENATCHEE AVE FINDS WAD027577709

1/4-1/2 WENATCHEE, WA 98801 **ALLSITES** 0.285 mi. **CSCSL NFA** 1503 ft. LUST **UST**

Relative: Higher

RCRA-NonGen:

Actual: Date form received by agency: 09/05/1986 657 ft.

OLD CASCADE BLDG Facility name: Facility address: 239-253 N WENATCHEE AVE

WENATCHEE, WA 98801

EPA ID: WAD027577709 Mailing address: PO BOX 2987

WENATCHEE, WA 98807-2987

Contact: JOHN CRUICKSHANK

Contact address: PO BOX 2987

WENATCHEE, WA 98807-2987

Contact country: US

Contact telephone: (509)663-0011 Not reported Contact email:

EPA Region: 10 Land type: Private

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

CASCADE CHEVROLET Owner/operator name:

Owner/operator address: PO BOX 2987

WENATCHEE, WA 98807

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 09/05/1986 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: Nο 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: Off-site waste receiver: Commercial status unknown

No

Violation Status: No violations found **ICR**

Direction Distance Elevation

Site Database(s) EPA ID Number

OLD CASCADE BLDG (Continued)

1000166135

EDR ID Number

Evaluation Action Summary:

Evaluation date: 01/29/1992

Evaluation: COMPLIANCE ASSISTANCE VISIT

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

FINDS:

Registry ID: 110005318977

Environmental Interest/Information System

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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: 68466237

Latitude: 47.428625490000002

Longitude: -120.314545

Geographic location identifier (alias facid): 68466237

Facility Name: CASCADE CHEVROLET MAZDA

Latitude Decimal Degrees: 47.428625490000002

Longitude Decimal Degrees: -120.314545

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): 68466237 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

 Interaction Status:
 I

 Federal Program Indentifier:
 1797

 Interaction Start Date:
 12/15/1999

 Interaction End Date:
 12/31/1999

 prgm_facil:
 Not reported

 cur_sys_pr:
 TOXICS

 cur_sys_nm:
 ISIS

Geographic Location Identifier (Alias Facid): 68466237
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility

Interaction Status:

Federal Program Indentifier: 1797 Interaction Start Date: 1/30/1998

Direction Distance Elevation

vation Site Database(s) EPA ID Number

OLD CASCADE BLDG (Continued)

1000166135

EDR ID Number

Interaction End Date: 10/30/1997
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility Id: 71423289
Latitude: 47.42727
Longitude: -120.31524

Geographic location identifier (alias facid): 71423289

Facility Name: OLD CASCADE BLDG

Latitude Decimal Degrees: 47.42727 Longitude Decimal Degrees: -120.31524

Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 99
Coordinate Point Geographic Position Code: 99
Location Verified Code: Y

Geographic Location Identifier (Alias Facid): 71423289 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD027577709
Interaction Start Date: 9/5/1986
Interaction End Date: 12/31/1992
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Geographic Location Identifier (Alias Facid): 71423289 Interaction (Aka Env Int) Type Code: VOLCLNST

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status:

Federal Program Indentifier: CE0067
Interaction Start Date: 5/2/2000
Interaction End Date: 7/7/2000

prgm_facil: OLD CASCADE BLDG

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 71423289 Interaction (Aka Env Int) Type Code: VOLCLNST

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status:

Federal Program Indentifier: CE0150
Interaction Start Date: 9/4/2002
Interaction End Date: 9/11/2002

prgm_facil: OLD CASCADE BLDG

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 71423289 Interaction (Aka Env Int) Type Code: INDPNDNT

Interaction (Aka Env Int) Description: Independent Cleanup

Interaction Status:

Federal Program Indentifier: Not reported Interaction Start Date: 7/7/2000

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

OLD CASCADE BLDG (Continued)

1000166135

8/13/2009 Interaction End Date:

OLD CASCADE BLDG prgm_facil:

TOXICS cur_sys_pr: cur_sys_nm: ISIS

CSCSL NFA:

Facility/Site Id: 71423289

NFA Type: NFA after assessment, IRAP, or VCP

NFA Date: 8/13/2009 Rank: Not reported

AREA SOUTH OF CHELAN PUD HQ, CASCADE CHEVROLET, Alternate Name:

VCP: Not reported

LUST:

edr_fstat: WA edr_fzip: 988012009 edr_fcnty: **CHELAN** 98801-2009 edr_zip: FS ID: 68466237 Facility ID: 1797

Facility Status: Reported Cleaned Up

435970 Release ID: Affected Media: Soil Alternate Name: Not reported Release Notification Date: 1/30/1998 Release Status Date: 10/30/1997 Site Response Unit Code: CENTRAL

Lat/Long: 47.42862549 / -120.314545

edr_fstat: WA edr_fzip: 988012009 edr_fcnty: **CHELAN** 98801-2009 edr_zip: FS ID: 68466237 Facility ID: 1797

Cleanup Started Facility Status:

Release ID: 435970 Affected Media: Soil Not reported Alternate Name: Release Notification Date: 1/30/1998 Release Status Date: 10/30/1997

Site Response Unit Code: CENTRAL

Lat/Long: 47.42862549 / -120.314545

UST:

Facility ID: 68466237 Site ID: 1797 Lat Deg: 47 Lat Min: 25

Lat Sec: 43.0517640000062

Long Deg: -120 Long Min: 18

Long Sec: 52.3619999999835 UBI: Not reported Phone Number: 5096630011

Direction

Elevation Site Database(s) EPA ID Number

OLD CASCADE BLDG (Continued)

1000166135

EDR ID Number

Tank ID: 21696

Tank Name: #1:UNLEADED Install Date: #2/31/1964

Capacity: 2,001 to 4,999 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 ID:
 41658

 Tank Name:
 #2:USED OIL

 Install Date:
 12/31/1964

Tank Actual Status Date:

Tag Number:

Capacity: 2,001 to 4,999 Gallons

8/6/1996

Not reported

Not reported

Not reported

8/6/1996

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 Not reported Tank Construction: 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:

Tag Number:

Tank Actual Status Date:

Direction Distance

Elevation Site Database(s) **EPA ID Number**

OLD CASCADE BLDG (Continued)

1000166135

EDR ID Number

ICR:

Date Ecology Received Report: 01/30/98

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil Waste Management: Tank Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 95-18 County Code: 4

Contact: Not reported Report Title: Not reported

06/07/94 Date Ecology Received Report:

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil Waste Management: Tank Region: Central

Type of Report Ecology Received: Final cleanup report

Site Register Issue: 98-05 County Code:

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 12/27/99

Contaminants Found at Site: Petroleum products

Soil Media Contaminated: Waste Management: Tank Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-23 County Code:

Contact: Not reported Report Title: Not reported

09/03/02 Date Ecology Received Report:

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil Waste Management: Not reported Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-52 County Code:

Contact: Not reported

Report Title: Report of Ground Water Sampling Results - March 1999 to January 2001

21 **NORTHERN FRUIT CO 2ND STREET** ALLSITES S109557122 **NPDES**

West **220 2ND ST NE**

1/4-1/2 **EAST WENATCHEE, WA**

0.309 mi. 1631 ft.

ALLSITES: Relative:

Facility Id: 62665167 Higher

Latitude: 47.408028000452902 Actual: Longitude: -120.287916078964 680 ft. Geographic location identifier (alias facid): 62665167

Facility Name: NORTHERN FRUIT CO 2ND STREET N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

NORTHERN FRUIT CO 2ND STREET (Continued)

S109557122

EDR ID Number

Latitude Decimal Degrees: 47.408028000500003 Longitude Decimal Degrees: -120.287916079

Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 99
Coordinate Point Geographic Position Code: 99

Location Verified Code: Not reported

Geographic Location Identifier (Alias Facid): 62665167 Interaction (Aka Env Int) Type Code: TIER2

Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2

Interaction Status: A

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:
Interaction

Geographic Location Identifier (Alias Facid): 62665167
Interaction (Aka Env Int) Type Code: FRUITGP
Interaction (Aka Env Int) Description: Fruit Packer GP
Interaction Status: A
Federal Program Indentifier: WAG435102

Federal Program Indentifier: WAG435102
Interaction Start Date: 6/15/1981
Interaction End Date: Not reported

prgm_facil: NORTHERN FRUIT CO 2ND STREET

cur_sys_pr: WATQUAL cur_sys_nm: PARIS

Geographic Location Identifier (Alias Facid): 62665167
Interaction (Aka Env Int) Type Code: FRUITGP
Interaction (Aka Env Int) Description: Fruit Packer GP

Interaction Status:

Federal Program Indentifier: ST0005593
Interaction Start Date: 6/15/1981
Interaction End Date: 5/9/1994

prgm_facil: NORTHERN FRUIT CO 2ND STREET

cur_sys_pr: WATQUAL cur_sys_nm: PARIS

NPDES:

Effective Date:

Facility Status: Active Is Major: N

 Facility Type:
 Fruit Packer GP

 Latitude:
 47.4080280004529

 Longitude:
 -120.287916078964

 Permit ID:
 WAG435102

 Permit Issue Date:
 6/11/2009

 Ecology Contact:
 Cory Hixon

7/2/2009

Ecology Contact Phone: (509) 454-7298 WRIA: Moses Coulee Permit Expiration Date: 7/1/2014

Facility Status: Active Is Major: N

Direction Distance Elevation

Site Database(s) EPA ID Number

NORTHERN FRUIT CO 2ND STREET (Continued)

S109557122

EDR ID Number

Facility Type: Fruit Packer GP Latitude: 47.4080280004529 Longitude: -120.287916078964 Permit ID: WAG435102 Permit Issue Date: 2/10/1994 **Ecology Contact:** Cory Hixon Ecology Contact Phone: (509) 454-7298 WRIA: Moses Coulee Permit Expiration Date: 3/4/1999

6/10/1994

Facility Status: Active Is Major: N

Effective Date:

Facility Type: Fruit Packer GP Latitude: 47.4080280004529 -120.287916078964 Longitude: Permit ID: WAG435102 Permit Issue Date: 6/15/2004 **Ecology Contact:** Cory Hixon **Ecology Contact Phone:** (509) 454-7298 WRIA: Moses Coulee 7/1/2009 Permit Expiration Date: Effective Date: 7/2/2004

Facility Status: Active Is Major: N

 Facility Type:
 Fruit Packer GP

 Latitude:
 47.4080280004529

 Longitude:
 -120.287916078964

Permit ID: ST0005593
Permit Issue Date: 6/15/1981
Ecology Contact: Cory Hixon
Ecology Contact Phone: (509) 454-7298
WRIA: Moses Coulee
Permit Expiration Date: 6/15/1986
Effective Date: 6/15/1981

Facility Status: Active Is Major: N

Facility Type: Fruit Packer GP Latitude: 47.4080280004529 Longitude: -120.287916078964 Permit ID: WAG435102 6/15/1999 Permit Issue Date: **Ecology Contact:** Cory Hixon Ecology Contact Phone: (509) 454-7298 WRIA: Moses Coulee

Permit Expiration Date: 7/1/2004 Effective Date: 7/1/1999

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

22 **WENATCHEE VALLEY CULTURAL CTR & MUSEUM** RCRA-NonGen 1005445282 SSW 127 S MISSION ST FINDS WAH000015479

ALLSITES

1/4-1/2 0.311 mi. 1645 ft.

RCRA-NonGen: Relative:

Date form received by agency: 01/12/2005 Higher

WENATCHEE, WA 98801

Facility name: WENATCHEE VALLEY CULTURAL CTR & MUSEUM

Actual: Facility address: 127 S MISSION ST 685 ft.

WENATCHEE, WA 98801

EPA ID: WAH000015479 KEITH R WILLIAMS Contact: Contact address: 127 S MISSION ST

WENATCHEE, WA 98801

Contact country:

(509)664-3340 Contact telephone: Contact email: Not reported 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: KEITH WILLIAMS Owner/operator address: 127 S MISSION ST

WENATCHEE, WA 98801

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 12/31/2004 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

Historical Generators:

Date form received by agency: 12/31/2003

Facility name: WENATCHEE VALLEY CULTURAL CTR & MUSEUM

Not a generator, verified Classification:

Violation Status: No violations found

Distance Elevation Site

Site Database(s) EPA ID Number

WENATCHEE VALLEY CULTURAL CTR & MUSEUM (Continued)

1005445282

EDR ID Number

Evaluation Action Summary:

Evaluation date: 10/30/2001

Evaluation: COMPLIANCE ASSISTANCE VISIT

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

FINDS:

Registry ID: 110012561343

Environmental Interest/Information System

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ALLSITES:

Facility Id: 37276529

Latitude: 47.422208818604197 Longitude: -120.312598766045 Geographic location identifier (alias facid): 37276529

Facility Name: Wenatchee Valley Cultural Ctr & Museum

Latitude Decimal Degrees: 47.422208818599998 Longitude Decimal Degrees: -120.31259876599999

Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 99
Coordinate Point Geographic Position Code: 8
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 37276529 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAH000015479
Interaction Start Date: 7/9/2001
Interaction End Date: 12/31/2004
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

F23 WELLS & WADE FACILITY ALLSITES S105922785
South 201-229 S WENATCHEE AVE CSCSL NFA N/A

1/4-1/2 0.316 mi.

1667 ft. Site 1 of 2 in cluster F

Relative: ALLSITES:

 Higher
 Facility Id:
 45989579

 Latitude:
 47.411237

 Actual:
 Longitude:
 -120.301237

WENATCHEE, WA 98801

669 ft. Geographic location identifier (alias facid): 45989579

Facility Name: WELLS & WADE FACILITY

Latitude Decimal Degrees: 47.411237 Longitude Decimal Degrees: -120.301237

Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 99
Coordinate Point Geographic Position Code: 8
Location Verified Code: Y

Geographic Location Identifier (Alias Facid): 45989579
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility

Interaction Status:

Federal Program Indentifier: 5311
Interaction Start Date: 6/13/1990
Interaction End Date: 7/10/1996
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 45989579 Interaction (Aka Env Int) Type Code: IRAP

Interaction (Aka Env Int) Description: Independent Remedial Actn Prg

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

Not reported
11/22/1995
2/26/1996

prgm_facil: WELLS & WADE FACILITY

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 45989579 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:

prgm_facil:
cur_sys_pr:
cur_sys_nm:

A

1/27/2000

Not reported
Not reported
TOXICS

ISIS

CSCSL NFA:

Facility/Site Id: 45989579

NFA Type: NFA after assessment, IRAP, or VCP

NFA Date: 2/26/1996 Rank: Not reported

Alternate Name: , WELLS & WADE INC, WELLS AND WADE HARDWARE, WELLS AND WADE INC

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WELLS & WADE FACILITY (Continued)

S105922785

VCP: Not reported

1000660038 F24 **WELLS & WADE FACILITY** UST South 201-229 S WENATCHEE AVE **ICR** N/A

WENATCHEE, WA 98801 1/4-1/2 0.316 mi.

1667 ft. Site 2 of 2 in cluster F

Tank ID:

UST: Relative:

Facility ID: 45989579 Higher Site ID: 5311 Actual: Lat Deg: 47 669 ft. Lat Min: 24

> Lat Sec: 40.4531999999995

Long Deg: -120 Long Min: 18

Long Sec: 4.45320000000152 UBI: Not reported Phone Number: 5096627173

18787

Tank Name: JB1 Install Date: 12/31/1964 Not reported Capacity: Tank Upgrade Date: 1/1/0001 Closed in Place TankSystem Status: TankSystem Status Change Date:8/26/1996 Tank Status: Closed in Place 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: Not reported Not reported Pipe Construction: 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

Tank ID: 2784 Tank Name: EB1 Install Date: 12/31/1964 Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Closed in Place TankSystem Status Change Date:8/26/1996 Tank Status: Closed in Place Tank Permit Expiration Date: 1/1/0001

Distance Elevation

Site Database(s) EPA ID Number

WELLS & WADE FACILITY (Continued)

1000660038

EDR ID Number

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

 Tank ID:
 3969

 Tank Name:
 4

 Install Date:
 12/31/1964

Not reported

Capacity:

1/1/0001 Tank Upgrade Date: TankSystem Status: Exempt TankSystem Status Change Date:8/26/1996 Tank Status: Exempt 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 Not reported Tank Tightness Test: Not reported Tank Corrosion Protection: 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 Not reported Pipe Tightness Test: 8/6/1996 Tank Actual Status Date: Tag Number: Not reported

Tank ID: 4016 Tank Name: 2

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

Distance Elevation

Site Database(s) EPA ID Number

WELLS & WADE FACILITY (Continued) Tank Permit Expiration Date: 1/1

Tank Closure Date:

1000660038

EDR ID Number

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: Not reported Not reported Pipe Construction: 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 Not reported Pipe Tightness Test: Tank Actual Status Date: 8/6/1996 Tag Number: Not reported

1/1/0001 1/1/0001

Tank ID: 4038 Tank Name: 5

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: 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

Tank ID: 40452
Tank Name: TS2
Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Exempt
TankSystem Status Change Date:8/26/1996

Direction Distance Elevation

nce EDR ID Number ttion Site Database(s) EPA ID Number

Exempt

WELLS & WADE FACILITY (Continued)

Tank Status:

1000660038

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 Not reported Tank Tightness Test: 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

 Tank ID:
 40574

 Tank Name:
 TS1

 Install Date:
 12/31/1964

Capacity: 111 TO 1,100 Gallons

Tank Upgrade Date: 1/1/0001 TankSystem Status: Exempt TankSystem Status Change Date:8/26/1996 Tank Status: Exempt 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: 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 ID: 4079 Tank Name: 3

Tank Actual Status Date:

Tag Number:

Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed

8/6/1996

Not reported

Direction Distance Elevation

ance EDR ID Number ation Site Database(s) EPA ID Number

WELLS & WADE FACILITY (Continued)

1000660038

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: 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

Tank ID: 876
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 Not reported Pipe Construction: 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

ICR:

Date Ecology Received Report: 08/28/90

Contaminants Found at Site: Petroleum products
Media Contaminated: Soil, Surface water

Waste Management: Tank
Region: Central

Direction Distance

Elevation Site Database(s) **EPA ID Number**

WELLS & WADE FACILITY (Continued)

1000660038

EDR ID Number

Type of Report Ecology Received: Final cleanup report

Site Register Issue: 90-15 County Code: 4

Contact: Not reported Report Title: Not reported

G25 **GREYHOUND LINES INC WENATCHEE ALLSITES** S105831537

WSW 301 1ST ST **CSCSL NFA** N/A VCP

WENATCHEE, WA 98801 1/4-1/2

0.328 mi.

1730 ft. Site 1 of 3 in cluster G

ALLSITES: Relative:

Facility Id: 13893255 Higher

Latitude: 47.424790673518103 Actual: Longitude: -120.31624259096 696 ft. Geographic location identifier (alias facid): 13893255

> Facility Name: GREYHOUND LINES INC WENATCHEE

Latitude Decimal Degrees: 47.424790673499999 Longitude Decimal Degrees: -120.31624259100001

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 13 Coordinate Point Geographic Position Code: 8 Location Verified Code:

Geographic Location Identifier (Alias Facid): 13893255 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 486239 Interaction Start Date: 2/8/2000 Interaction End Date: 2/8/2008 Not reported prgm_facil: TOXICS cur_sys_pr: ISIS cur_sys_nm:

Geographic Location Identifier (Alias Facid): 13893255 Interaction (Aka Env Int) Type Code: LUST Interaction (Aka Env Int) Description: **LUST Facility**

Interaction Status:

Federal Program Indentifier: 486239 2/25/1999 Interaction Start Date: Interaction End Date: 5/6/1999 prgm_facil: Not reported **TOXICS** cur_sys_pr: cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 13893255 Interaction (Aka Env Int) Type Code: **VOLCLNST**

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status:

Federal Program Indentifier: CE0043 Interaction Start Date: 4/26/1999 Interaction End Date: 5/6/1999

prgm_facil: GREYHOUND LINES INC WENATCHEE

TOXICS cur_sys_pr: ISIS cur_sys_nm:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

GREYHOUND LINES INC WENATCHEE (Continued)

S105831537

CSCSL NFA:

Facility/Site Id: 13893255

NFA Type: NFA after assessment, IRAP, or VCP

NFA Date: 5/6/1999 Rank: Not reported

, GREYHOUND TERMINAL Alternate Name:

VCP:

VCP:

WA edr_fstat: 98801 edr_fzip: CHELAN edr_fcnty: edr_zip: 98801-2635 Facility ID: 13893255 VCP Status: Not reported

VCP:

Ecology Status: Not reported

NFA Type: NFA after assessment, IRAP, or VCP

Date NFA: 5/6/1999 Rank: Not reported

G26 **GREYHOUND LINES, INC.** ICR S103850598 wsw 301 1ST ST. N/A

1/4-1/2 WENATCHEE, WA 98801

0.328 mi.

1730 ft. Site 2 of 3 in cluster G

ICR: Relative:

Date Ecology Received Report: 02/25/99 Higher

Contaminants Found at Site: Petroleum products

Actual: Media Contaminated: Soil 696 ft. Tank Waste Management:

Region: Central

Type of Report Ecology Received: Final cleanup report

Site Register Issue: 98-13 County Code: 4

Contact: Not reported Not reported Report Title:

QWIK STOP CHELAN ALLSITES U004020877 **G27 WSW** 116 CHELAN UST N/A

1/4-1/2 WENATCHEE, WA 98801

0.331 mi.

Site 3 of 3 in cluster G 1747 ft.

ALLSITES: Relative:

Facility Id: 35479899 Higher

Latitude: 47.424957999999997

Actual: Longitude: -120.316322

697 ft. Geographic location identifier (alias facid): 35479899

Facility Name: **QWIK STOP CHELAN** Latitude Decimal Degrees: 47.424957999999997

Longitude Decimal Degrees: -120.316322

Coordinate Point Areal Extent Code: 4 Horizontal Accuracy Code: 13

Direction Distance Elevation

n Site Database(s) EPA ID Number

QWIK STOP CHELAN (Continued)

U004020877

EDR ID Number

Coordinate Point Geographic Position Code: 5 Location Verified Code: N

Geographic Location Identifier (Alias Facid): 35479899
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility

Interaction Status:

Federal Program Indentifier: 100061
Interaction Start Date: 5/9/2005
Interaction End Date: 5/3/2007
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 35479899
Interaction (Aka Env Int) Type Code: ENFORFNL
Interaction (Aka Env Int) Description: Enforcement Final

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

prgm_facil:

cur_sys_pr:

cur_sys_nm:

Not reported

Not reported

TOXICS

DMS

Geographic Location Identifier (Alias Facid): 35479899 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

prgm_facil:

cur_sys_pr:

cur_sys_nm:

A

100061

100061

Not reported

Not reported

Not reported

TOXICS

ISIS

UST:

Facility ID: 35479899
Site ID: 100061
Lat Deg: 47
Lat Min: 25

Lat Sec: 29.8487999999878

Long Deg: -120 Long Min: 18

 Long Sec:
 58.7591999999984

 UBI:
 6027342680010003

 Phone Number:
 2093802548

 Tank ID:
 28181

 Tank Name:
 628-4

 Install Date:
 6/1/1967

Capacity: 2,001 to 4,999 Gallons

Tank Upgrade Date: 8/12/1997
TankSystem Status: Operational
TankSystem Status Change Date:4/6/2006
Tank Status: Operational

Direction Distance

Elevation Site Database(s) EPA ID Number

QWIK STOP CHELAN (Continued)

U004020877

EDR ID Number

Tank Permit Expiration Date: 7/31/2011
Tank Closure Date: 1/1/0001
Tank Pumping System: Other

Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)

Tank Material: Steel

Tank Construction: Single Wall Tank

Tank Tightness Test: Annual

Tank Corrosion Protection: Impressed Current Pipe Material: Fiberglass Pipe Construction: Single Wall Pipe

Pipe Primary Release Detection: Automatic Line Leak Detection

Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported Pipe Tightness Test: Annual Tank Actual Status Date: 8/6/1996 Tag Number: A0612

 Tank ID:
 28311

 Tank Name:
 628-2

 Install Date:
 6/1/1967

Capacity: 5,000 to 9,999 Gallons

Tank Upgrade Date: 8/12/1997
TankSystem Status: Operational
TankSystem Status Change Date:4/6/2006
Tank Status: Operational
Tank Permit Expiration Date: 7/31/2011
Tank Closure Date: 1/1/0001

Tank Pumping System: Pressurized System
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)

Tank Material: Steel

Tank Construction: Single Wall Tank

Tank Tightness Test: Annual

Tank Corrosion Protection: Impressed Current

Pipe Material: Fiberglass
Pipe Construction: Single Wall Pipe

Pipe Primary Release Detection: Automatic Line Leak Detection

Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported Pipe Tightness Test: Annual Tank Actual Status Date: 8/6/1996 Tag Number: A0612

 Tank ID:
 28324

 Tank Name:
 628-1

 Install Date:
 6/1/1967

Capacity: 5,000 to 9,999 Gallons

Tank Upgrade Date: 8/12/1997
TankSystem Status: Operational
TankSystem Status Change Date:4/6/2006

Distance

Elevation Site Database(s) EPA ID Number

QWIK STOP CHELAN (Continued)

U004020877

EDR ID Number

Tank Status: Operational Tank Permit Expiration Date: 7/31/2011 Tank Closure Date: 1/1/0001

Tank Pumping System: Pressurized System
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)

Tank Material: Steel

Tank Construction: Single Wall Tank

Tank Tightness Test: Annual

Tank Corrosion Protection: Impressed Current Pipe Material: Fiberglass Pipe Construction: Single Wall Pipe

Pipe Primary Release Detection: Automatic Line Leak Detection

Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported Pipe Tightness Test: Annual Tank Actual Status Date: 8/6/1996 Tag Number: A0612

 Tank ID:
 28434

 Tank Name:
 628-3

 Install Date:
 6/1/1967

Capacity: 2,001 to 4,999 Gallons

Tank Upgrade Date: 8/12/1997
TankSystem Status: Operational
TankSystem Status Change Date:4/6/2006
Tank Status: Operational
Tank Permit Expiration Date: 7/31/2011
Tank Closure Date: 1/1/0001
Tank Pumping System: Other

Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)

Tank Material: Steel

Tank Construction: Single Wall Tank

Tank Tightness Test: Annual

Tank Corrosion Protection: Impressed Current Pipe Material: Fiberglass Pipe Construction: Single Wall Pipe

Pipe Primary Release Detection: Automatic Line Leak Detection

Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported Pipe Tightness Test: Annual Tank Actual Status Date: 8/6/1996 Tag Number: A0612

 Tank ID:
 618785

 Tank Name:
 1

 Install Date:
 1/1/0001

Capacity: 111 TO 1,100 Gallons

Tank Upgrade Date: 1/1/0001
TankSystem Status: Closed in Place

Direction Distance

Elevation Site Database(s) EPA ID Number

QWIK STOP CHELAN (Continued)

U004020877

EDR ID Number

TankSystem Status Change Date:5/16/2005 Tank Status: Closed in Place 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: 5/9/2005 Tag Number: A0612

 Tank ID:
 618786

 Tank Name:
 2

 Install Date:
 1/1/0001

Tank Upgrade Date:

Tag Number:

Capacity: 111 TO 1,100 Gallons

1/1/0001

A0612

TankSystem Status: Closed in Place TankSystem Status Change Date:5/16/2005 Tank Status: Closed in Place 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: 5/9/2005

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

28 **NANCEKIVELLS CLEANERS** RCRA-CESQG 1000168703 **WSW** 136 N CHELAN AVE FINDS WAD027577667

1/4-1/2 WENATCHEE, WA 98801 **ALLSITES** 0.336 mi. **Inactive Drycleaners** 1774 ft.

RCRA-CESQG: Relative:

Higher Date form received by agency: 01/31/2005

NANCEKIVELLS CLEANERS Facility name:

Actual: Facility address: 136 N CHELAN AVE 698 ft.

WENATCHEE, WA 98801

EPA ID: WAD027577667 CHONG HO KIM Contact: Contact address: 136 N CHELAN AVE

WENATCHEE, WA 98801-2222

Contact country:

Contact telephone: (509)663-0791 Contact email: Not reported

EPA Region: 10 Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

> month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: CHONG HO KIM Owner/operator address: 136 N CHELAN AVE WENATCHEE, WA 98801

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 09/04/1996 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

Direction Distance

Elevation Site Database(s) **EPA ID Number**

NANCEKIVELLS CLEANERS (Continued)

1000168703

EDR ID Number

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: 12/31/2003

Facility name: NANCEKIVELLS CLEANERS Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

09/29/2004 Evaluation date:

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 08/13/2003

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/09/1995

COMPLIANCE ASSISTANCE VISIT Evaluation:

Not reported Area of violation: Date achieved compliance: Not reported Evaluation lead agency: State

FINDS:

Registry ID: 110005318968

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:

12677242 Facility Id:

Latitude: 47.425339999999998

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

NANCEKIVELLS CLEANERS (Continued)

1000168703

Longitude: -120.31538

Geographic location identifier (alias facid): 12677242

Facility Name: Nancekivells Cleaners Latitude Decimal Degrees: 47.425339999999998

Longitude Decimal Degrees: -120.31538

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 99 Location Verified Code:

Geographic Location Identifier (Alias Facid): 12677242 Interaction (Aka Env Int) Type Code: **AQPR**

Interaction (Aka Env Int) Description: Air Qual Periodic Reg

Interaction Status:

Federal Program Indentifier: Not reported 10/28/1997 Interaction Start Date: Interaction End Date: Not reported prgm_facil: Not reported cur_sys_pr: **AIRQUAL AIRSIS** cur_sys_nm:

Geographic Location Identifier (Alias Facid): 12677242 Interaction (Aka Env Int) Type Code: **ENFORFNL** Interaction (Aka Env Int) Description: **Enforcement Final** Interaction Status: Federal Program Indentifier: Not reported

Interaction Start Date: 10/12/2006 Interaction End Date: Not reported prgm_facil: Not reported **AIRQUAL** cur_sys_pr: cur_sys_nm: DMS

Geographic Location Identifier (Alias Facid): 12677242 Interaction (Aka Env Int) Type Code: **HWG**

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD027577667 Interaction Start Date: 12/21/1987 Interaction End Date: 12/31/2004 prgm_facil: Not reported **HAZWASTE** cur_sys_pr: **TURBOWASTE** cur_sys_nm:

Inactive Drycleaners:

EPA I: WAD027577667 FS Id: 12677242 Facility ID: WAD027577667

NAICS Code: 81232 Fed Waste Code Desc: f002, d007 State Waste Code Desc: f002, d007 TAX REG NBR: 601793706 **BUSINESS TYPE:** Not reported

MAIL NAME: Nancekivells Cleaners MAIL LINE1: 136 N CHELAN AVE

MAIL LINE2: Not reported MAIL CITY: **WENATCHEE**

Direction Distance Elevation

evation Site Database(s) EPA ID Number

NANCEKIVELLS CLEANERS (Continued)

1000168703

EDR ID Number

MAIL STATE: WA

MAIL ZIP: 98801-2222

MAIL COUNTRY: UNITED STATES

LEGAL ORG NAME: Nancekivells Cleaners Inc

LEGAL PERSON FIRST NAME: Not reported
LEGAL PERSON MIDDLE INIT: Not reported
LEGAL PERSON LAST NAME: Not reported
LEGAL LINE1: 136 N CHELAN AVE
LEGAL LINE2: Not reported

LEGAL CITY: WENATCHEE LEGAL STATE: WA

98801-2222 LEGAL ZIP: LEGAL COUNTRY: **UNITED STATES** LEGAL PHONE NBR: (509)663-0791 LEGAL EFFECTIVE DATE: 9/4/1996 LEGAL ORGANIZATION TYPE: Private LAND ORG NAME: Not reported LAND PERSON FIRST NAME: Chong Ho LAND PERSON MIDDLE INIT: Not reported

LAND PERSON LAST NAME: Kim

136 N CHELAN AVE LAND LINE1: LAND LINE2: Not reported **WENATCHEE** LAND CITY: LAND STATE: WA LAND ZIP: 98801-2222 LAND COUNTRY: **UNITED STATES** LAND PHONE NBR: (509)663-0791 LAND ORGANIZATION TYPE: Private OPERATOR ORG NAME: Not reported OPERATOR PERSON FIRST NAME: Chong H OPERATOR PERSON MIDDLE INIT: Not reported

OPERATOR PERSON LAST NAME: Kim

OPERATOR LINE1: 136 N CHELAN AVE
OPERATOR LINE2: Not reported
OPERATOR CITY: WENATCHEE

OPERATOR STATE: WA

OPERATOR ZIP: 98801-2222

OPERATOR COUNTRY: UNITED STATES

OPERATOR PHONE NBR: (509)663-0791

OPERATOR EFFECTIVE DATE: 9/4/1996

OPERATOR ORGANIZATION TYPE: Private

SITE CONTACT FIRST NAME: Chong Ho

SITE CONTACT MIDDLE INIT: Not reported

SITE CONTACT LAST NAME: Kim

SITE CONTACT LINE1: 136 N CHELAN AVE
SITE CONTACT LINE2: Not reported
SITE CONTACT CITY: WENATCHEE
SITE CONTACT STATE: WA
SITE CONTACT ZIP: 98801-2222
SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: (509)663-0791

SITE CONTACT EMAIL: kimch72@cpucafe.com
FORM CONTACT FIRST NAME: Chong Ho
FORM CONTACT MIDDLE INIT: Not reported

FORM CONTACT LAST NAME: Kim

FORM CONTACT LINE1: 136 N CHELAN AVE FORM CONTACT LINE2: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

NANCEKIVELLS CLEANERS (Continued)

1000168703

EDR ID Number

FORM CONTACT CITY: WENATCHEE

FORM CONTACT STATE: WA

FORM CONTACT ZIP: 98801-2222
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: (509)663-0791

FORM CONTACT EMAIL: kimch72@cpucafe.com

GEN STATUS CD: SQG MONTHLY GENERATION: Yes **BATCH GENERATION:** No ONE TIME GENERATION: No TRANSPORTS OWN WASTE: No TRANSPORTS OTHERS WASTE: No RECYCLER ONSITE: No TRANSFER FACILITY: No PBR: No TBG: No MIXED RADIOACTIVE: No IMPORTER: No TSDR FACILITY: No IMMEDIATE RECYCLER: No GEN DANG FUEL: No GEN MARKET TO BURNER: No GEN OTHER MARKETERS: No UTILITY BOILER BURNER: No INDUSTRY BOILER BURNER: No FURNACE BURNER: No SMELTER DEFERRAL: No SMALL QTY EXEMPTION: No

OTHER EXEMPTION: Not reported

UW BATTERY GEN: No UW THERMOSTATS GEN: No UW MERCURY GEN: No UW LAMPS GEN: No UW BATTERY ACCUM: No UW THERMOSTATS ACCUM: No UW MERCURY ACCUM: No UW LAMPS ACCUM: No UW DESTINATION FACILITY: No OFF SPEC UTILITY BOILER: No OFF SPEC INDUSTRY BOILER: No OFF SPEC FURNACE: Nο **USED OIL TRANSPORTER:** No **USED OIL TRANSFER FACILITY:** No USED OIL PROCESSOR: No **USED OIL REREFINER:** No

USED OIL FUEL MARKETER DIR SHIPMENTS: No USED OIL FUEL MARKETER MEETS SPECS: No Comments: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

29 **WENATCHEE LIBRARY** RCRA-NonGen 1000660146 SW 310 DOUGLAS ST **FINDS** WAD988498275

1/4-1/2 0.336 mi. 1774 ft.

RCRA-NonGen: Relative:

Date form received by agency: 11/09/1993 Higher

WENATCHEE, WA 98801

Facility name: WENATCHEE LIBRARY Actual: Facility address: 310 DOUGLAS ST 697 ft. WENATCHEE, WA 98801

> EPA ID: WAD988498275

Mailing address: 106 S 6TH AVE

YAKIMA, WA 98902-3387

MARK LAYMAN Contact: Contact address: 106 S 6TH AVE

YAKIMA, WA 98902-3387

Contact country: US

Contact telephone: (509)454-7829 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 Owner/operator address: 106 S 6TH AVE YAKIMA, WA 98902

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 11/09/1993 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: 110005369831 **ALLSITES**

Direction Distance Elevation

vation Site Database(s) EPA ID Number

WENATCHEE LIBRARY (Continued)

1000660146

EDR ID Number

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:

Facility Id: 63157952

Latitude: 47.42349999999997

Longitude: -120.31439

Geographic location identifier (alias facid): 63157952

Facility Name: Wenatchee Library
Latitude Decimal Degrees: 47.423499999999997

Longitude Decimal Degrees: -120.31439

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): 63157952 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD988498275
Interaction Start Date: 12/19/1991
Interaction End Date: 12/31/1991
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

30 FAUBION FAMILY LLC SSE 310 S WORTHEN

1/4-1/2 0.355 mi. 1877 ft.

Relative: FINDS:

Equal

Registry ID: 110035444374

Actual:
634 ft. Environmental Interest/Information System

WENATCHEE, WA 98807

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

FINDS

ALLSITES

MANIFEST

1011401026

N/A

Direction Distance Elevation

n Site Database(s) EPA ID Number

FAUBION FAMILY LLC (Continued)

1011401026

EDR ID Number

corrective action activities required under RCRA.

ALLSITES:

Facility Id: 9791896

Latitude: 47.422052000000001

Longitude: -120.305387

Geographic location identifier (alias facid): 9791896

Facility Name: Faubion Family LLC Latitude Decimal Degrees: 47.422052000000001

Longitude Decimal Degrees: -120.305387

Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 99
Coordinate Point Geographic Position Code: 8

Location Verified Code: Not reported

Geographic Location Identifier (Alias Facid): 9791896 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAH000032804
Interaction Start Date: 4/4/2008
Interaction End Date: 8/1/2008
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

WA MANIFEST:

9791896 Facility Site ID Number: SWC Desc: Not reported FWC Desc: Not reported Form Comm: Not reported Data Year: 2008 Permit by Rule: False Treatment by Generator: False Mixed radioactive waste: False Importer of hazardous waste: False Immediate recycler: False

Treatment/Storage/Disposal/Recycling Facility: False Generator of dangerous fuel waste: False Generator marketing to burner: False "Other marketers (i.e., blender, distributor, etc.)": False Utility boiler burner: False Industry boiler burner: False Industrial Furnace: False Smelter defferal: False Universal waste - batteries - generate: False Universal waste - thermostats - generate: False Universal waste - mercury - generate: False Universal waste - lamps - generate: False Universal waste - batteries - accumulate: False Universal waste - thermostats - accumulate: False Universal waste - mercury - accumulate: False Universal waste - lamps - accumulate: False Destination Facility for Universal Waste: False

Direction Distance Elevation

EPA ID Number Site Database(s)

FAUBION FAMILY LLC (Continued)

1011401026

EDR ID Number

Off-specification used oil burner - utility boiler: False Off-specification used oil burner - industrial boiler: False Off-specification used oil burner - industrial furnace: False WAH000032804 EPA ID:

Facility Address 2: Not reported TAX REG NBR: 601678077 NAICS CD: 531120

BUSINESS TYPE: Property Management Faubion Family LLC MAIL NAME: MAIL ADDR LINE1: 14810 2nd Ave NW Marysville, WA 98271 MAIL CITY, ST, ZIP: **UNITED STATES** MAIL COUNTRY: LEGAL ORG NAME: Faubion Family LLC

LEGAL ORG TYPE: Private

LEGAL ADDR LINE1: 14810 2nd Ave NW LEGAL CITY, ST, ZIP: Marysville, WA 98271 **UNITED STATES** LEGAL COUNTRY: LEGAL PHONE NBR: (360)652-8799 LEGAL EFFECTIVE DATE: 12/19/1995

LAND ORG NAME: Faubion Family LLC

LAND ORG TYPE: Private LAND PERSON NAME: Not reported LAND ADDR LINE1: 14810 2nd Ave NW LAND CITY, ST, ZIP: Marysville, WA 98271 LAND COUNTRY: **UNITED STATES** (360)652-8799 LAND PHONE NBR: OPERATOR ORG NAME: Faubion Family LLC

OPERATOR ORG TYPE: Private

OPERATOR ADDR LINE1: 14810 2nd Ave NW OPERATOR CITY, ST, ZIP: Marysville, WA 98271 **UNITED STATES OPERATOR COUNTRY:** OPERATOR PHONE NBR: (360)652-8799 OPERATOR EFFECTIVE DATE: 12/19/1995 SITE CONTACT NAME: Mark Matlock SITE CONTACT ADDR LINE1: 14810 2nd Ave NW SITE CONTACT ZIP: Marysville, WA 98271 SITE CONTACT COUNTRY: **UNITED STATES** SITE CONTACT PHONE NBR: (360)652-8799 SITE CONTACT EMAIL: mmatlock@verizon.net

FORM CONTACT NAME: Mark Matlock FORM CONTACT ADDR LINE1: 14810 2nd Ave NW FORM CONTACT CITY, ST, ZIP: Marysville, WA 98271 FORM CONTACT COUNTRY: **UNITED STATES** FORM CONTACT PHONE NBR: (360)652-8799

FORM CONTACT EMAIL: mmatlock@verizon.net

GEN STATUS CD: LQG MONTHLY GENERATION: False **BATCH GENERATION:** False ONE TIME GENERATION: True 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

Direction Distance

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

FAUBION FAMILY LLC (Continued) 1011401026

USED OIL PROCESSOR: False USED OIL REREFINER: False

USED OIL FUEL MRKTR DIRECTS SHPMNTS: False
USED OIL FUEL MRKTR MEETS SPECS: False

31 WENATCHEE CENTRAL OFFICE 4770 B01 ALLSITES U000802946 SW 100 S CHELAN CSCSL NFA N/A

SW 100 S CHELAN CSCSL NFA N/A 1/4-1/2 WENATCHEE, WA 98801 UST

0.358 mi. VCP 1890 ft. ICR

Relative: ALLSITES:

Higher Facility Id: 32251567

Latitude: 47.423052970000001

Actual: Longitude: -120.31021509999999

700 ft. Geographic location identifier (alias facid): 32251567

Facility Name: WENATCHEE CENTRAL OFFICE 4770 B01

Latitude Decimal Degrees: 47.423052970000001 Longitude Decimal Degrees: -120.31021509999999

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): 32251567 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:

prgm_facil:

cur_sys_pr:

cur_sys_nm:

ISIS

A

1/27/2000

Interaction End Date:

Not reported

Not reported

TOXICS

ISIS

Geographic Location Identifier (Alias Facid): 32251567 Interaction (Aka Env Int) Type Code: VOLCLNST

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status:

Federal Program Indentifier: CE0089
Interaction Start Date: 4/2/2001
Interaction End Date: 4/25/2001

prgm_facil: WENATCHEE CENTRAL OFFICE 4770 B01

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 32251567 Interaction (Aka Env Int) Type Code: TIER2

Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:
Interaction

Geographic Location Identifier (Alias Facid): 32251567

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WENATCHEE CENTRAL OFFICE 4770 B01 (Continued)

U000802946

Interaction (Aka Env Int) Type Code: LUST

Interaction (Aka Env Int) Description: **LUST Facility**

Interaction Status:

Federal Program Indentifier: 12369 Interaction Start Date: 6/2/1998 4/25/2001 Interaction End Date: Not reported prgm_facil: TOXICS cur_sys_pr: ISIS cur_sys_nm:

CSCSL NFA:

32251567 Facility/Site Id:

NFA Type: NFA after assessment, IRAP, or VCP

NFA Date: 4/25/2001 Rank: Not reported

VERIZON NORTHWEST INC WENATCHEE, WENATCHEE CENTRAL OFFICE (4770-B01), Alternate Name:

VCP:

UST:

Facility ID: 32251567 Site ID: 12369 Lat Deg: 47 Lat Min: 25

Lat Sec: 22.9906920000019

Long Deg: -120 Long Min: 18

36.7743599999767 Long Sec: UBI: 3130134200010082 Phone Number: 9096205962

Tank ID: 22489 Tank Name: 4770-B01-1 Install Date: 7/4/1977

1,101 to 2,000 Gallons Capacity:

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:2/7/2000 Tank Status: Removed Tank Permit Expiration Date: 6/30/1996 Tank Closure Date: 1/1/0001

Tank Pumping System: Suction System Tank Check Valve

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 Not reported Pipe Material:

Single Wall Pipe Pipe Construction: Pipe Primary Release Detection: Not reported Pipe Second Release Detection: Not reported Pipe Corrosion Protection: None

Tank Primary Release Detection: Weekly Manual Gauging

Tank Second Release Detection: Not reported

Pipe Tightness Test: Every 3 Years (suction tank check valve)

Direction Distance

Elevation Site Database(s) EPA ID Number

WENATCHEE CENTRAL OFFICE 4770 B01 (Continued)

U000802946

EDR ID Number

Tank Actual Status Date: 8/6/1996 Tag Number: 8/6/1996

 Tank ID:
 487467

 Tank Name:
 4770-B01-02

 Install Date:
 6/3/1998

Capacity: 111 TO 1,100 Gallons

Tank Upgrade Date: 6/3/1998
TankSystem Status: Operational
TankSystem Status Change Date:1/1/0001
Tank Status: Operational
Tank Permit Expiration Date: 3/31/2011
Tank Closure Date: 1/1/0001

Tank Pumping System: Suction System Pump Check Valve

Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Overfill Alarm

Tank Material: Fiberglass Reinforced Plastic

Tank Construction: Double Wall Tank

Tank Tightness Test: Part of Automatic Tank Gauging (ATG) System

Tank Corrosion Protection: Corrosion Resistant

Pipe Material: Fiberglass

Pipe Construction: Secondary Containment

Pipe Primary Release Detection: Interstitial Monitoring (sump sensor)

Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Tank Primary Release Detection: Automatic Tank Gauging

Tank Second Release Detection: Not reported

Pipe Tightness Test: No
Tank Actual Status Date: 12/10/1999
Tag Number: A8083

VCP:

 edr_fstat:
 WA

 edr_fzip:
 98801-2902

 edr_fcnty:
 CHELAN

 edr_zip:
 98801-2902

 Facility ID:
 32251567

 VCP Status:
 Not reported

VCP: Y

Ecology Status: Not reported

NFA Type: NFA after assessment, IRAP, or VCP

Date NFA: 4/25/2001 Rank: Not reported

ICR:

Date Ecology Received Report: 07/13/98

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil
Waste Management: Tank
Region: Central

Type of Report Ecology Received: Final cleanup report

Site Register Issue: 98-10 County Code: 4

Contact: Not reported Report Title: Not reported

Direction Distance

West

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

H32 CHELAN FALLS GROCERY ALLSITES U003025673

320 2ND AVE CSCSL NFA N/A

1/4-1/2 CHELAN FALLS, WA 98817 UST

0.363 mi. 1919 ft. Site 1 of 2 in cluster H

Relative: ALLSITES:

 Higher
 Facility Id:
 98831418

 Latitude:
 47.425897999999997

Actual: Longitude: -120.317333

699 ft. Geographic location identifier (alias facid): 98831418

Facility Name: CHELAN FALLS GROCERY

Latitude Decimal Degrees: 47.42589799999997

Longitude Decimal Degrees: -120.317333

Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 13
Coordinate Point Geographic Position Code: 5
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 98831418
Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:
prgm_facil:
cur_sys_pr:
cur_sys_nm:

11749
Int7/2000
Interaction End Date:
Not reported
TOXICS
ISIS

Geographic Location Identifier (Alias Facid): 98831418
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility

Geographic Location Identifier (Alias Facid): 98831418
Interaction (Aka Env Int) Type Code: INDPNDNT

Interaction (Aka Env Int) Description: Independent Cleanup

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Not reported
7/20/1993
Interaction End Date:

12/1/2008

prgm_facil: CHELAN FALLS GROCERY

cur_sys_pr: TOXICS cur_sys_nm: ISIS

CSCSL NFA:

Facility/Site Id: 98831418

NFA Type: NFA after assessment, IRAP, or VCP

NFA Date: 12/1/2008
Rank: Not reported
Alternate Name: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHELAN FALLS GROCERY (Continued)

U003025673

VCP: Not reported

UST:

Facility ID: 98831418 Site ID: 11749 Lat Deg: 47 Lat Min: 25

33.2327999999876 Lat Sec:

Long Deg: -120 Long Min: 19

2.3988000000179 Long Sec: UBI: 6004946040010001 Phone Number: 5098847416

Tank ID: 18975 Tank Name: Install Date: 1/1/1974

Capacity: 111 TO 1,100 Gallons

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:8/26/1996 Removed Tank Status: Tank Permit Expiration Date: 1/1/0001 Tank Closure Date: 7/30/1993 Tank Pumping System: Not reported Tank Spill Prevention: None Tank Overfill Prevention: None Tank Material: Not reported Tank Construction: Not reported Not reported Tank Tightness Test: Tank Corrosion Protection: None

Pipe Material: Not reported Pipe Construction: Other Pipe Primary Release Detection: Suction Pipe Second Release Detection: Not reported

Pipe Corrosion Protection: None

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 6/3/1993 A1004 Tag Number:

Tank ID: 19012 Tank Name: 6/4/1993 Install Date:

5,000 to 9,999 Gallons Capacity:

Tank Upgrade Date: 6/4/1993

TankSystem Status: **Temporarily Closed**

TankSystem Status Change Date:8/1/2000

Tank Status: **Temporarily Closed**

7/31/2001 Tank Permit Expiration Date: Tank Closure Date: 1/1/0001 Tank Pumping System: Not reported Tank Spill Prevention: Spill Bucket/Spill Box Tank Overfill Prevention: Automatic Shutoff (fill pipe) Tank Material: Fiberglass Reinforced Plastic

Direction Distance

Elevation Site Database(s) **EPA ID Number**

CHELAN FALLS GROCERY (Continued)

U003025673

EDR ID Number

Tank Construction: Single 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: Automatic Tank Gauging

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 8/6/1996 Tag Number: A1004

Tank ID: 19114 Tank Name: Install Date: 6/4/1993

Capacity: 5,000 to 9,999 Gallons

Tank Upgrade Date: 6/4/1993

TankSystem Status: **Temporarily Closed**

TankSystem Status Change Date:8/1/2000

Temporarily Closed Tank Status:

Tank Permit Expiration Date: 7/31/2001 Tank Closure Date: 1/1/0001 Tank Pumping System: Not reported Tank Spill Prevention: Spill Bucket/Spill Box Tank Overfill Prevention: Automatic Shutoff (fill pipe) Tank Material: Fiberglass Reinforced Plastic

Tank Construction: Single 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 Corrosion Resistant Pipe Corrosion Protection: Tank Primary Release Detection: Automatic Tank Gauging

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 8/6/1996 A1004 Tag Number:

Tank ID: 19190 Tank Name: Install Date: 1/1/1974

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: 7/30/1993 Tank Pumping System: Not reported Tank Spill Prevention: None Tank Overfill Prevention: None

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN FALLS GROCERY (Continued)

U003025673

EDR ID Number

Tank Material: Not reported Tank Construction: Not reported Tank Tightness Test: Not reported Tank Corrosion Protection: None Pipe Material: Not reported Pipe Construction: Other Pipe Primary Release Detection: Suction Pipe Second Release Detection: Not reported Pipe Corrosion Protection: None

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 6/3/1993
Tag Number: A1004

 Tank ID:
 19244

 Tank Name:
 5

 Install Date:
 6/4/1993

Capacity: 1,101 to 2,000 Gallons

Tank Upgrade Date: 6/4/1993

TankSystem Status: Temporarily Closed TankSystem Status Change Date:8/1/2000

Tank Status: Temporarily Closed

Tank Permit Expiration Date: 7/31/2001
Tank Closure Date: 1/1/0001
Tank Pumping System: Not reported
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Ball Float Valve (vent line)

Tank Material: Fiberglass Reinforced Plastic
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Corrosion Resistant

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: Automatic Tank Gauging

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 8/6/1996 Tag Number: A1004

H33 CHELAN FALLS GROCERY

West 320 2ND ST.

1/4-1/2 CHELAN FALLS, WA 98817

0.363 mi.

Actual:

1919 ft. Site 2 of 2 in cluster H

Relative: ICR:

Higher Date Ecology Received Report: 07/30/93

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

699 ft. Waste Management: Tank
Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 93-06

ICR

S103505895

N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHELAN FALLS GROCERY (Continued)

S103505895

County Code:

Not reported Contact: Not reported Report Title:

134 **WENATCHEE CITY ALLSITES** U003029273 ssw 129 S CHELAN ST UST N/A

1/4-1/2 WENATCHEE, WA 98801

0.368 mi.

1943 ft. Site 1 of 2 in cluster I

ALLSITES: Relative:

4644349 Facility Id: Higher Latitude: 47.420938 Actual: Longitude: -120.313182 700 ft.

Geographic location identifier (alias facid): 4644349

WENATCHEE CITY Facility Name: Latitude Decimal Degrees: 47.420938 Longitude Decimal Degrees: -120.313182

Coordinate Point Areal Extent Code: Horizontal Accuracy Code: 13 Coordinate Point Geographic Position Code: 5 Location Verified Code:

Geographic Location Identifier (Alias Facid): 4644349 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status: Federal Program Indentifier: 99031 2/8/2000 Interaction Start Date: Interaction End Date: Not reported prgm_facil: Not reported **TOXICS** cur_sys_pr: ISIS cur_sys_nm:

UST:

Facility ID: 4644349 Site ID: 99031 Lat Deg: 47 Lat Min: 25

Lat Sec: 15.3767999999985

Long Deg: -120 Long Min: 18

Long Sec: 47.4551999999915 UBI: Not reported Phone Number: 5096626125

Tank ID: 11371 Tank Name: Install Date: 4/20/1960 Not reported Capacity: 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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WENATCHEE CITY (Continued)

U003029273

Tank Pumping System: Not reported Tank Spill Prevention: None Tank Overfill Prevention: None Tank Material: Not reported Tank Construction: Other Tank Tightness Test: Not reported Tank Corrosion Protection: None Pipe Material: Not reported Other Pipe Construction: Pipe Primary Release Detection: Suction Pipe Second Release Detection: Not reported Pipe Corrosion Protection: None 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

Tank ID: 11455 Tank Name: Install Date: 4/20/1960 Not reported Capacity: 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: None Tank Overfill Prevention: None Tank Material: Not reported Tank Construction: Other Tank Tightness Test: Not reported Tank Corrosion Protection: None Pipe Material: Not reported Pipe Construction: Other Pipe Primary Release Detection: Suction Pipe Second Release Detection: Not reported

Tank Primary Release Detection: Manual Inventory Control (daily)

None

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 8/6/1996 Tag Number: Not reported

Pipe Corrosion Protection:

Tank ID: 11618 Tank Name: Install Date: 4/20/1970 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

Direction Distance

Elevation Site Database(s) EPA ID Number

WENATCHEE CITY (Continued)

U003029273

U001128314

N/A

ALLSITES

UST

ICR

EDR ID Number

Tank Closure Date: 1/1/0001 Tank Pumping System: Not reported Tank Spill Prevention: None Tank Overfill Prevention: None Tank Material: Not reported Tank Construction: Other Tank Tightness Test: Not reported Tank Corrosion Protection: None Pipe Material: Not reported Pipe Construction: Other Pipe Primary Release Detection: Suction Pipe Second Release Detection: Not reported Pipe Corrosion Protection: None Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported 8/6/1996 Tank Actual Status Date: Tag Number: Not reported

J35 WENATCHEE BUILDING SUPPLY

South 302 S COLUMBIA 1/4-1/2 WENATCHEE, WA 98801

0.373 mi.

1971 ft. Site 1 of 2 in cluster J

Relative: ALLSITES:

Higher Facility Id: 63369922

Latitude: 47.420991049999998

Actual: Longitude: -120.30651949999999

655 ft. Geographic location identifier (alias facid): 63369922

Facility Name: WENATCHEE BUILDING SUPPLY

Latitude Decimal Degrees: 47.420991049999998 Longitude Decimal Degrees: -120.30651949999999

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): 63369922 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

prgm_facil:

cur_sys_pr:

cur_sys_nm:

I01330

2/8/2000

2/28/2006

Not reported

TOXICS

ISIS

Geographic Location Identifier (Alias Facid): 63369922
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:

prgm_facil:
cur_sys_pr:

101330
11/13/1996
2/28/2006
Not reported
TOXICS

Direction Distance

Elevation Site Database(s) **EPA ID Number**

WENATCHEE BUILDING SUPPLY (Continued)

U001128314

EDR ID Number

cur_sys_nm: ISIS

UST:

Facility ID: 63369922 Site ID: 101330 Lat Deg: 47

Lat Min: 25

Lat Sec: 15.5677799999921

Long Deg: -120 Long Min: 18

23.4701999999754 Long Sec: UBI: Not reported Phone Number: 5096632537

Tank ID: 18414 Tank Name: 1

Install Date: 12/31/1964

Capacity: 5,000 to 9,999 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: 12/27/1993 Tank Pumping System: Not reported Not reported Tank Spill Prevention: Tank Overfill Prevention: Not reported Tank Material: Not reported Not reported Tank Construction: 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: 9/17/1993 Tag Number: Not reported

ICR:

Date Ecology Received Report: 11/13/96

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil Waste Management: Tank Central Region:

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 94-54 County Code:

Contact: Not reported Report Title: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

136 WENATCHEE CITY FIRE DEPT RCRA-NonGen 1001114286 SSW 136 S CHELAN AVE FINDS WAR000009183

1/4-1/2 WENATCHEE, WA 98801 0.374 mi.

1972 ft. Site 2 of 2 in cluster I

RCRA-NonGen: Relative:

Date form received by agency: 05/14/1997 Higher

WENATCHEE CITY FIRE DEPT Facility name:

Actual: Facility address: 136 S CHELAN AVE 702 ft.

WENATCHEE, WA 98801

EPA ID: WAR000009183 **GLEN TIBBS** Contact: Contact address: 136 S CHELAN AVE

WENATCHEE, WA 98801-2902

Contact country:

Contact telephone: (509)664-3950 Contact email: Not reported 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: **GLEN TIBBS**

136 S CHELAN AVE Owner/operator address:

WENATCHEE, WA 98801

Owner/operator country: US

Not reported Owner/operator telephone: Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 02/10/1997 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: Nο 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

Evaluation Action Summary:

Evaluation date: 04/21/1997

Evaluation: COMPLIANCE ASSISTANCE VISIT

Area of violation: Not reported **ALLSITES**

UST

Distance

Elevation Site Database(s) EPA ID Number

WENATCHEE CITY FIRE DEPT (Continued)

1001114286

EDR ID Number

Date achieved compliance: Not reported Evaluation lead agency: State

FINDS:

Registry ID: 110009513179

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: 23291293

Latitude: 47.42186000000002

Longitude: -120.31265

Geographic location identifier (alias facid): 23291293

Facility Name: Wenatchee City Fire Dept Latitude Decimal Degrees: 47.42186000000002

Longitude Decimal Degrees: -120.31265

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): 23291293 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAR00009183
Interaction Start Date: 5/24/1996
Interaction End Date: 12/31/1996
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Geographic Location Identifier (Alias Facid): 23291293 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status: A

Federal Program Indentifier: 502923
Interaction Start Date: 2/8/2000
Interaction End Date: Not reported prgm_facil: Not reported cur_sys_pr: TOXICS cur_sys_nm: ISIS

Direction Distance

Elevation Site Database(s) **EPA ID Number**

WENATCHEE CITY FIRE DEPT (Continued)

1001114286

EDR ID Number

UST:

Facility ID: 23291293 Site ID: 502923 Lat Deg: 47 Lat Min: 25

18.6960000000084 Lat Sec:

Long Deg: -120 Long Min: 18

45.5400000000179 Long Sec: UBI: Not reported Phone Number: Not reported

Tank ID: 502928 Tank Name: 1/1/1900 Install Date: Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Closed in Place TankSystem Status Change Date:6/29/1999 Tank Status: Closed in Place 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: 12/10/1999 Tag Number: Not reported

SW 317 ORONDO ST 1/4-1/2 WENATCHEE, WA 98801

0.381 mi.

37

2010 ft.

ALLSITES: Relative:

Facility Id: 31622146 Higher

BRIANS AUTOMOTIVE ALTERNATIVE

Latitude: 47.422226999999999 Actual: Longitude: -120.31336899999999 706 ft. Geographic location identifier (alias facid): 31622146

> Facility Name: Brians Automotive Alternative Latitude Decimal Degrees: 47.422226999999999 Longitude Decimal Degrees: -120.31336899999999

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 6 Coordinate Point Geographic Position Code: 99 U001125445

N/A

ALLSITES

UST

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BRIANS AUTOMOTIVE ALTERNATIVE (Continued)

U001125445

Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 31622146 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WA0000062414 Interaction Start Date: 11/23/1993 Interaction End Date: 12/31/1994 prgm_facil: Not reported **HAZWASTE** cur_sys_pr: **TURBOWASTE** cur_sys_nm:

Geographic Location Identifier (Alias Facid): 31622146 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status: Α Federal Program Indentifier: 8417 Interaction Start Date: 1/27/2000 Not reported Interaction End Date: prgm_facil: Not reported TOXICS cur_sys_pr: ISIS cur_sys_nm:

UST:

Facility ID: 31622146 Site ID: 8417 Lat Deg: 47 Lat Min: 25

Lat Sec: 20.0171999999981

Long Deg: -120 Long Min: 18

Long Sec: 48.12839999998 UBI: Not reported Phone Number: 5096632411

Tank ID: 340 Tank Name:

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: Fiberglass Pipe Construction: Not reported Pipe Primary Release Detection: Not reported

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BRIANS AUTOMOTIVE ALTERNATIVE (Continued)

U001125445

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 8/6/1996 Tank Actual Status Date: Tag Number: Not reported

Tank ID: 365 Tank Name: Install Date: 12/31/1964

Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Closed in Place TankSystem Status Change Date:8/26/1996 Closed in Place Tank Status: 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 8/6/1996 Tank Actual Status Date: Tag Number: Not reported

Tank ID: 378 Tank Name: Install Date: 12/31/1964

Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Closed in Place TankSystem Status Change Date:8/26/1996 Tank Status: Closed in Place 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 Not reported Tank Corrosion Protection: Not reported Pipe Material: Pipe Construction: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BRIANS AUTOMOTIVE ALTERNATIVE (Continued)

U001125445

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 8/6/1996 Tank Actual Status Date: Tag Number: Not reported

420 Tank ID: Tank Name: 2

12/31/1964 Install Date: 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: **Fiberglass** 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 Not reported Pipe Tightness Test: Tank Actual Status Date: 8/6/1996 Tag Number: Not reported

Tank ID: 443 Tank Name: 6

12/31/1964 Install Date: Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Closed in Place TankSystem Status Change Date:8/26/1996 Tank Status: Closed in Place 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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BRIANS AUTOMOTIVE ALTERNATIVE (Continued)

U001125445

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 Not reported Pipe Tightness Test: Tank Actual Status Date: 8/6/1996 Tag Number: Not reported

503 Tank ID: Tank Name:

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 Not reported Pipe Construction: 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 Not reported Pipe Tightness Test: Tank Actual Status Date: 8/6/1996 Tag Number: Not reported

J38 **SAFEWAY FUEL 3265 ALLSITES** U004127391 South 316 N COLUMBIA ST **UST** N/A

1/4-1/2 **CHELAN, WA 98816**

0.383 mi.

2020 ft. Site 2 of 2 in cluster J

ALLSITES: Relative: Higher

4317533 Facility Id:

47.837113000000002 Latitude:

Actual: Longitude: -120.021726 654 ft.

Geographic location identifier (alias facid): 4317533

Facility Name: SAFEWAY FUEL 3265 Latitude Decimal Degrees: 47.837113000000002

Longitude Decimal Degrees: -120.021726

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 8 Location Verified Code: Ν

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SAFEWAY FUEL 3265 (Continued)

U004127391

Geographic Location Identifier (Alias Facid): 4317533 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status: Federal Program Indentifier: 619531 Interaction Start Date: 10/27/2008 Not reported Interaction End Date: prgm_facil: Not reported **TOXICS** cur_sys_pr: cur_sys_nm: ISIS

UST:

Facility ID: 4317533 Site ID: 619531 Lat Deg: 47 Lat Min: 50

Lat Sec: 13.606800000008

Long Deg: -120 Long Min:

18.2136000000037 Long Sec: UBI: 6006435180010352

Phone Number: 6238693573

Tank ID: 619883 Tank Name: ONE 8/21/2008 Install Date: Not reported Capacity: Tank Upgrade Date: 1/1/0001 TankSystem Status: Operational TankSystem Status Change Date:1/1/0001 Tank Status: Operational Tank Permit Expiration Date: 10/31/2010 Tank Closure Date: 1/1/0001

Tank Pumping System: Pressurized System Tank Spill Prevention: Spill Bucket/Spill Box Tank Overfill Prevention: Overfill Alarm

Tank Material: Steel Clad with Corrosion Resistant Composite

Tank Construction: Double Wall Tank

Tank Tightness Test: Part of Automatic Tank Gauging (ATG) System

Tank Corrosion Protection: Corrosion Resistant Pipe Material: Flexible Piping Pipe Construction: Double Wall Pipe

Pipe Primary Release Detection: Automatic Line Leak Detection Pipe Second Release Detection: Interstitial Monitoring (sump sensor)

Pipe Corrosion Protection: Corrosion Resistant Tank Primary Release Detection: Automatic Tank Gauging Tank Second Release Detection: Interstitial Monitoring

Pipe Tightness Test: Electronic Automatic Leak Line Detector

Tank Actual Status Date: 1/1/0001 Tag Number: A5469

Tank ID: 619884 Tank Name: TWO Install Date: 8/21/2008 Capacity: Not reported

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

SAFEWAY FUEL 3265 (Continued)

U004127391

Tank Upgrade Date: 1/1/0001 TankSystem Status: Operational TankSystem Status Change Date:1/1/0001 Tank Status: Operational Tank Permit Expiration Date: 10/31/2010 Tank Closure Date: 1/1/0001

Tank Pumping System: Pressurized System Tank Spill Prevention: Spill Bucket/Spill Box Tank Overfill Prevention: Overfill Alarm

Tank Material: Steel Clad with Corrosion Resistant Composite

Tank Construction: Double Wall Tank

Tank Tightness Test: Part of Automatic Tank Gauging (ATG) System

Tank Corrosion Protection: Corrosion Resistant Pipe Material: Flexible Piping Pipe Construction: Double Wall Pipe

Pipe Primary Release Detection: Automatic Line Leak Detection Pipe Second Release Detection: Interstitial Monitoring (sump sensor)

Pipe Corrosion Protection: Corrosion Resistant Tank Primary Release Detection: Automatic Tank Gauging Tank Second Release Detection: Statistical Inventory Reconciliation

Pipe Tightness Test: Electronic Automatic Leak Line Detector

Tank Actual Status Date: 1/1/0001 Tag Number: A5469

CENTRAL WASHINGTON CONCRETE WENATCHEE WO

FINDS 1008001227 **ALLSITES** N/A

24 N WORTHEN 1/4-1/2 WENATCHEE, WA 98807

0.391 mi. 2063 ft.

39

NW

FINDS: Relative:

Higher

Registry ID: 110020767348

Actual: 639 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.

ALLSITES:

Facility Id: 1486395

Latitude: 47.430943693375603 -120.31440071793099 Longitude: Geographic location identifier (alias facid): 1486395

CENTRAL WASHINGTON CONCRETE WENATCHEE WO Facility Name:

Latitude Decimal Degrees: 47.430943693400003 Longitude Decimal Degrees: -120.314400718

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 99 Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 1486395

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

CENTRAL WASHINGTON CONCRETE WENATCHEE WO (Continued)

1008001227

1000878655

WA0000113779

RCRA-CESQG

FINDS

UST

ICR

ALLSITES

Interaction (Aka Env Int) Type Code: **HWP**

Interaction (Aka Env Int) Description: Hazardous Waste Planner

Interaction Status:

Federal Program Indentifier: CRK000060870 Interaction Start Date: 7/2/2007 6/2/2008 Interaction End Date: prgm_facil: Not reported **HAZWASTE** cur_sys_pr: cur_sys_nm: **HWPPRT**

Geographic Location Identifier (Alias Facid): 1486395 Interaction (Aka Env Int) Type Code: TIER2

Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2

Interaction Status:

CRK000060870 Federal Program Indentifier: Interaction Start Date: 2/23/2004 Interaction End Date: Not reported prgm_facil: Not reported cur_sys_pr: **HAZWASTE** cur_sys_nm: **EPCRA**

MIDWAY TEXACO SERVICE 40 South **300 S WENATCHEE AVE** 1/4-1/2 WENATCHEE, WA 98801 0.399 mi.

RCRA-CESQG: Relative:

2108 ft.

Date form received by agency: 01/31/1997 Higher

Facility name: MIDWAY TEXACO SERVICE Actual: Facility address: 300 S WENATCHEE AVE 670 ft. WENATCHEE, WA 988013064

EPA ID: WA0000113779 Contact: SHERWOOD VICE

Contact address: 300 S WENATCHEE AVE WENATCHEE, WA 98801-3064

Contact country: US

Contact telephone: (509)884-8262 Contact email: Not reported

EPA Region: 10 Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time;

or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Direction Distance Elevation

Site Database(s) **EPA ID Number**

MIDWAY TEXACO SERVICE (Continued)

1000878655

EDR ID Number

Owner/Operator Summary:

SHERWOOD VICE Owner/operator name: Owner/operator address: 300 S WENATCHEE AVE WENATCHEE, WA 98801

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 08/01/1996 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: Nο Used oil transporter: No

Off-site waste receiver: Commercial status unknown

No violations found Violation Status:

Evaluation Action Summary:

04/19/1995 Evaluation date:

COMPLIANCE ASSISTANCE VISIT Evaluation:

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

FINDS:

110005302920 Registry ID:

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.

Direction Distance

Elevation Site Database(s) EPA ID Number

MIDWAY TEXACO SERVICE (Continued)

1000878655

EDR ID Number

ALLSITES:

Facility Id: 9628947

Latitude: 47.420700429999997

Longitude: -120.3087487

Geographic location identifier (alias facid): 9628947

Facility Name: Midway Texaco Service
Latitude Decimal Degrees: 47.420700429999997
Longitude Decimal Degrees: -120.3087487

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): 9628947
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:

prgm_facil:
Cur_sys_pr:
Cur_sys_nm:

I 1979
Inter30/1991
Interaction End Date:
2/2/2006
Not reported
TOXICS
ISIS

Geographic Location Identifier (Alias Facid): 9628947 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WA0000113779
Interaction Start Date: 2/14/1994
Interaction End Date: 12/31/1995
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Geographic Location Identifier (Alias Facid): 9628947 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:
Interaction End Date:

prgm_facil:
Cur_sys_pr:
Cur_sys_nm:

Interaction End Date:
Interaction End Da

UST:

Facility ID: 9628947
Site ID: 11979
Lat Deg: 47
Lat Min: 25

Lat Sec: 14.5215479999877

Long Deg: -120 Long Min: 18

Long Sec: 31.4953199999832

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MIDWAY TEXACO SERVICE (Continued)

1000878655

UBI: 6004201580010001 Phone Number: 5096627670

Tank ID: 16573 Tank Name: Install Date: 1/1/1973

5,000 to 9,999 Gallons Capacity:

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:11/15/2000 Tank Status: Removed Tank Permit Expiration Date: 6/30/1999 Tank Closure Date: 11/15/2000 Tank Pumping System: Not reported Spill Bucket/Spill Box Tank Spill Prevention: Tank Overfill Prevention: Ball Float Valve (vent line) Tank Material: Fiberglass Reinforced Plastic

Tank Construction: Single Wall Tank

Tank Tightness Test: Annual Tank Corrosion Protection: Interior Lining Pipe Material: Not reported Pipe Construction: Single Wall Pipe Pipe Primary Release Detection: Suction Pipe Second Release Detection: Not reported

Pipe Corrosion Protection: None

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported

Pipe Tightness Test: No Tank Actual Status Date: 3/12/1992 Tag Number: Not reported

Tank ID: 16652 Tank Name: Install Date: 1/1/1967

5,000 to 9,999 Gallons Capacity:

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:11/15/2000 Tank Status: Removed Tank Permit Expiration Date: 6/30/1999 Tank Closure Date: 11/15/2000 Tank Pumping System: Not reported Tank Spill Prevention:

Spill Bucket/Spill Box Tank Overfill Prevention: Automatic Shutoff (fill pipe)

Tank Material: Not reported Tank Construction: Single Wall Tank Tank Tightness Test: Annual Tank Corrosion Protection: Interior Lining Pipe Material: Not reported Single Wall Pipe Pipe Construction: Pipe Primary Release Detection: Suction Pipe Second Release Detection: Not reported Pipe Corrosion Protection: None

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported

Pipe Tightness Test: No

Direction Distance

Elevation Site Database(s) EPA ID Number

MIDWAY TEXACO SERVICE (Continued)

1000878655

EDR ID Number

Tank Actual Status Date: 11/4/2000
Tag Number: Not reported

Tank ID: 16754 Tank Name: 1

Install Date: 12/31/1964

Capacity: 2,001 to 4,999 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: 11/15/2000 Tank Pumping System: Not reported Tank Spill Prevention: Spill Bucket/Spill Box Ball Float Valve (vent line) Tank Overfill Prevention: Tank Material: Fiberglass Reinforced Plastic

Tank Construction:

Tank Tightness Test:

Tank Corrosion Protection:

Pipe Material:

Pipe Construction:

Pipe Primary Release Detection:

Pipe Second Release Detection:

Not reported

Annual

Interior Lining

Steel

Single Wall Pipe

Suction

Not reported

Pipe Corrosion Protection: None

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported

Pipe Tightness Test: No
Tank Actual Status Date: 11/4/2000
Tag Number: Not reported

 Tank ID:
 16895

 Tank Name:
 3

 Install Date:
 1/1/1967

Capacity: 2,001 to 4,999 Gallons

Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date:11/15/2000
Tank Status: Removed
Tank Permit Expiration Date: 6/30/1999
Tank Closure Date: 11/15/2000
Tank Pumping System: Not reported
Tank Spill Prevention: Spill Bucket/S

Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)

Tank Material:

Tank Construction:

Tank Tightness Test:

Tank Corrosion Protection:

Pipe Material:

Pipe Construction:

Pipe Primary Release Detection:

Pipe Second Release Detection:

Not reported

Single Wall Tank

Annual

Interior Lining

Not reported

Single Wall Pipe

Single Wall Pipe

Pipe Second Release Detection:

Not reported

Pipe Second Release Detection: Not reported Pipe Corrosion Protection: None

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number**

MIDWAY TEXACO SERVICE (Continued)

1000878655

EDR ID Number

Pipe Tightness Test: No 11/4/2000 Tank Actual Status Date: Tag Number: Not reported

ICR:

Date Ecology Received Report: 08/28/92

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil Waste Management: Tank Region: Central

Final cleanup report Type of Report Ecology Received:

Site Register Issue: 94-30 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 12/10/91

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil Waste Management: Tank Central Region:

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 94-30 County Code:

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 09/08/92

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil Waste Management: Tank Region: Central

Type of Report Ecology Received: Final cleanup report

Site Register Issue: 92-34 County Code:

Contact: Not reported Report Title: Not reported

CHELAN COUNTY PUD ICR S104487257 N/A

WNW 327 N. WENATCHEE AVE. 1/4-1/2 WENATCHEE, WA 98801 0.401 mi.

2120 ft. Site 1 of 4 in cluster K

ICR: Relative:

K41

Higher Date Ecology Received Report: 05/25/91

Contaminants Found at Site: Petroleum products

Actual: Media Contaminated: Soil 659 ft. Waste Management: Tank Central Type of Report Ecology Received: Not reported

Site Register Issue: 91-31 County Code:

Contact: Not reported Report Title: Not reported

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

K42 **CHELAN CNTY PUD 1 WENATCHEE AVE** RCRA-CESQG 1000276579 WNW 327 NORTH WENATCHEE AVENUE FINDS WAD041585290

1/4-1/2 WENATCHEE, WA 98801

0.401 mi.

2120 ft. Site 2 of 4 in cluster K

Relative: Higher

RCRA-CESQG:

Actual: Date form received by agency: 02/28/2008 659 ft.

CHELAN CNTY PUD 1 Facility name: Facility address: 327 N WENATCHEE AVE

WENATCHEE, WA 98801

EPA ID: WAD041585290 Mailing address: PO BOX 1231

WENATCHEE, WA 98807-1231

Contact: JENNIFER BURNS Contact address: PO BOX 1231

WENATCHEE, WA 98807-1231

Contact country: US

Contact telephone: (509)663-8121 Not reported Contact email: EPA Region: 10

Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

JENNIFER BURNS Owner/operator name: Owner/operator address: PO BOX 1231

WENATCHEE, WA 98807

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: District Owner/Operator Type: Operator Owner/Op start date: 10/04/1996 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 **ALLSITES**

UST **MANIFEST**

ICR

CSCSL NFA

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

EDR ID Number

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: 12/31/2007

Facility name: CHELAN CNTY PUD 1 Classification: Not a generator, verified

Date form received by agency: 12/31/2005

Facility name: CHELAN CNTY PUD 1 Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 06/23/1999

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

FINDS:

Registry ID: 110005319887

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.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

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:

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

EDR ID Number

Facility Id: 14135572

Latitude: 47.429284539999998
Longitude: -120.31511260000001
Geographic location identifier (alias facid): 14135572

Facility Name: Chelan Cnty Pud 1 Wenatchee Ave

Latitude Decimal Degrees: 47.429284539999998 Longitude Decimal Degrees: -120.31511260000001

Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 4
Coordinate Point Geographic Position Code: 99
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 14135572 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

10634
Interaction Start Date:

Interaction End Date:

prgm_facil:

cur_sys_pr:

TOXICS

SISIS

Geographic Location Identifier (Alias Facid): 14135572 Interaction (Aka Env Int) Type Code: INDPNDNT

Interaction (Aka Env Int) Description: Independent Cleanup

Interaction Status:

Federal Program Indentifier: 10634
Interaction Start Date: 10/3/1989
Interaction End Date: 8/20/2007

prgm_facil: Chelan Cnty Pud 1 Wenatchee Ave

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 14135572 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status: A

Federal Program Indentifier: WAD041585290
Interaction Start Date: 4/2/2004
Interaction End Date: Not reported
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Geographic Location Identifier (Alias Facid): 14135572 Interaction (Aka Env Int) Type Code: HWP

Interaction (Aka Env Int) Description: Hazardous Waste Planner

Interaction Status:

Federal Program Indentifier: WAD041585290
Interaction Start Date: 1/1/1993
Interaction End Date: 12/31/1993
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: HWPPRT

Geographic Location Identifier (Alias Facid): 14135572

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

Interaction (Aka Env Int) Type Code: **HWG**

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD041585290 Interaction Start Date: 4/26/1989 Interaction End Date: 12/31/2002 prgm_facil: Not reported **HAZWASTE** cur_sys_pr: **TURBOWASTE** cur_sys_nm:

Geographic Location Identifier (Alias Facid): 14135572 Interaction (Aka Env Int) Type Code: LUST Interaction (Aka Env Int) Description: **LUST Facility**

Interaction Status: Federal Program Indentifier: 10634 10/3/1989 Interaction Start Date: Interaction End Date: 8/20/2007 prgm_facil: Not reported cur_sys_pr: **TOXICS** ISIS cur_sys_nm:

CSCSL NFA:

Facility/Site Id: 14135572

NFA Type: NFA after assessment, IRAP, or VCP

NFA Date: 7/12/2007 Rank: Not reported

Alternate Name: , CHELAN COUNTY PUD, CHELAN PUD 1

VCP: Not reported

UST:

Facility ID: 14135572 Site ID: 10634 Lat Deg: 47 Lat Min: 25

Lat Sec: 45.4243439999914

Long Deg: -120 Long Min: 18

54.4053600000223 Long Sec: UBI: 0480037560010002

Phone Number: 5096638121

Tank ID: 14926 Tank Name: HQ-4A Install Date: 8/25/1988

Capacity: 111 TO 1,100 Gallons

Tank Upgrade Date: 1/1/0001 TankSystem Status: Exempt TankSystem Status Change Date:8/20/1999 Tank Status: Exempt Tank Permit Expiration Date: 6/30/2000 1/1/0001 Tank Closure Date: Tank Pumping System: Not reported Tank Spill Prevention: Spill Bucket/Spill Box

Tank Overfill Prevention: None Tank Material: Other

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

EDR ID Number

Tank Construction:

Tank Tightness Test:

Tank Corrosion Protection:

Pipe Material:

Pipe Construction:

Pipe Primary Release Detection:

Pipe Second Release Detection:

Pipe Corrosion Protection:

Not reported

Single Wall Pipe

Suction

Not reported

None

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: A8225

 Tank ID:
 20081

 Tank Name:
 HQ-1A

 Install Date:
 8/1/1993

Capacity: 10,000 to 19,999 Gallons

Tank Upgrade Date: 5/5/1998
TankSystem Status: Operational
TankSystem Status Change Date:8/26/1996
Tank Status: Operational
Tank Permit Expiration Date: 6/30/2011
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

Tank Construction: Double Wall Tank

Tank Tightness Test: Part of Automatic Tank Gauging (ATG) System

Tank Corrosion Protection: Sacrificial Anode Pipe Material: Sacrificial Anode 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: Automatic Tank Gauging

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 8/6/1996 Tag Number: A8225

 Tank ID:
 24140

 Tank Name:
 HQ-3

 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: 10/1/1993 Tank Pumping System: Not reported Tank Spill Prevention: Not reported Tank Overfill Prevention: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

EDR ID Number

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 Not reported Pipe Tightness Test: Tank Actual Status Date: 3/9/1993 Tag Number: A8225

 Tank ID:
 24168

 Tank Name:
 HQ-1

 Install Date:
 12/31/1964

Capacity: 5,000 to 9,999 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: 10/1/1993 Tank Pumping System: Not reported Tank Spill Prevention: Not reported Tank Overfill Prevention: Not reported Tank Material: Steel

Single Wall Tank Tank Construction: 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 3/9/1993 Tank Actual Status Date: Tag Number: A8225

 Tank ID:
 24231

 Tank Name:
 HQ-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:7/14/2010
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 8/15/1990
Tank Pumping System: Not reported
Tank Spill Prevention: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

EDR ID Number

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

 Tank ID:
 24240

 Tank Name:
 HQ-4

 Install Date:
 12/31/1964

Tag Number:

Capacity: 111 TO 1,100 Gallons

A8225

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 Not reported Pipe Material: Not reported Pipe Construction: 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 Not reported Pipe Tightness Test: Tank Actual Status Date: 8/6/1996 Tag Number: A8225

 Tank ID:
 24394

 Tank Name:
 HQ-2

 Install Date:
 12/31/1964

Capacity: 5,000 to 9,999 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: 10/1/1993
Tank Pumping System: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

EDR ID Number

Tank Spill Prevention:

Tank Overfill Prevention:

Tank Material:

Not reported

Not reported

Steel

Single Wall Tank Tank Construction: 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: 3/9/1993 Tag Number: A8225

WA MANIFEST:

Facility Site ID Number: 14135572 SWC Desc: Not reported FWC Desc: Not reported Form Comm: Not reported Data Year: Not reported Permit by Rule: False Treatment by Generator: False Mixed radioactive waste: False Importer of hazardous waste: False Immediate recycler: False

Treatment/Storage/Disposal/Recycling Facility: False False Generator of dangerous fuel waste: 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: WAD041585290
Facility Address 2: Not reported
TAX REG NBR: 048003756
NAICS CD: 221111
BUSINESS TYPE: Not reported

MAIL NAME: Chelan Cnty PUD No 1

MAIL ADDR LINE1: PO BOX 1231

MAIL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

MAIL COUNTRY: UNITED STATES

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

EDR ID Number

LEGAL ORG NAME: Chelan Cnty PUD No 1

LEGAL ORG TYPE: District

LEGAL ADDR LINE1: PO Box 1231

LEGAL ADDR LINE2: 427 N Wenatchee Av

LEGAL CITY,ST,ZIP: WENATCHEE, WA 98801

LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: (509)663-8121
LEGAL EFFECTIVE DATE: 4/17/1989

LAND ORG NAME: Chelan Cnty PUD No 1

LAND ORG TYPE: District

LAND PERSON NAME: Not reported

LAND ADDR LINE1: PO Box 1231

LAND ADDR LINE2: 427 N Wenatchee Av

LAND CITY,ST,ZIP: WENATCHEE, WA 98801

LAND COUNTRY: UNITED STATES

LAND COUNTRY: UNITED STAT
LAND PHONE NBR: (509)663-8121
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: District
OPERATOR ADDR LINE1: PO BOX 1231

OPERATOR CITY, ST, ZIP: WENATCHEE, WA 98807-1231

OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 509663-8121
OPERATOR EFFECTIVE DATE: 10/04/96
SITE CONTACT NAME: Jennifer Burns
SITE CONTACT ADDR LINE1: PO BOX 1231

SITE CONTACT ZIP: WENATCHEE, WA 98807-1231

SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: (509)663-8121
SITE CONTACT EMAIL: Not reported
FORM CONTACT NAME: Jennifer Burns
FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY,ST,ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: UNITED STATES FORM CONTACT PHONE NBR: 509663-8121

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org

GEN STATUS CD: SQG 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 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: 14135572
SWC Desc: WT02
FWC Desc: D001
Form Comm: Not reported
Data Year: 2009

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

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: WAD041585290 Facility Address 2: Not reported TAX REG NBR: 048003756 NAICS CD: 221111 **BUSINESS TYPE:** Not reported

Chelan Cnty PUD No 1 MAIL NAME:

MAIL ADDR LINE1: PO BOX 1231

WENATCHEE, WA 98807-1231 MAIL CITY, ST, ZIP:

MAIL COUNTRY: **UNITED STATES** LEGAL ORG NAME: Chelan Cnty PUD No 1 LEGAL ORG TYPE: District

PO Box 1231 LEGAL ADDR LINE1: LEGAL ADDR LINE2: 427 N Wenatchee Av WENATCHEE, WA 98801 LEGAL CITY,ST,ZIP:

LEGAL COUNTRY: **UNITED STATES** LEGAL PHONE NBR: (509)663-8121 4/17/1989 LEGAL EFFECTIVE DATE:

LAND ORG TYPE:

LAND ORG NAME: Chelan Cnty PUD No 1

District

LAND PERSON NAME: Not reported LAND ADDR LINE1: PO Box 1231 LAND ADDR LINE2: 427 N Wenatchee Av LAND CITY, ST, ZIP: WENATCHEE, WA 98801 LAND COUNTRY: **UNITED STATES** (509)663-8121 LAND PHONE NBR: **OPERATOR ORG NAME:** Not reported

OPERATOR ORG TYPE: District **OPERATOR ADDR LINE1:** PO BOX 1231 OPERATOR CITY, ST, ZIP: WENATCHEE, WA 98807-1231

UNITED STATES OPERATOR COUNTRY: OPERATOR PHONE NBR: 509663-8121 OPERATOR EFFECTIVE DATE: 10/4/1996

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

SITE CONTACT NAME: Jennifer Burns SITE CONTACT ADDR LINE1: PO BOX 1231

WENATCHEE, WA 98807-1231 SITE CONTACT ZIP:

SITE CONTACT COUNTRY: **UNITED STATES** SITE CONTACT PHONE NBR: (509)663-8121 SITE CONTACT EMAIL: Not reported FORM CONTACT NAME: Jennifer Burns FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY, ST, ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: **UNITED STATES** FORM CONTACT PHONE NBR: 509663-8121

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org

GEN STATUS CD: SQG 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: 14135572 SWC Desc: Not reported FWC Desc: Not reported Not reported Form Comm: 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: Nο Generator marketing to burner: No "Other marketers (i.e., blender, distributor, etc.)": No Utility boiler burner: No Industry boiler burner: No Industrial Furnace: No Smelter defferal: No Universal waste - batteries - generate: No Universal waste - thermostats - generate: No Universal waste - mercury - generate: No Universal waste - lamps - generate: No Universal waste - batteries - accumulate: No Universal waste - thermostats - accumulate: No Universal waste - mercury - accumulate: No Universal waste - lamps - accumulate: No Destination Facility for Universal Waste: No Off-specification used oil burner - utility boiler: No

Direction Distance Elevation

ance EDR ID Number vation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

Off-specification used oil burner - industrial boiler: No
Off-specification used oil burner - industrial furnace: No
EPA ID: WAD041585290
Facility Address 2: Not reported
TAX REG NBR: 048003756
NAICS CD: 221111
BUSINESS TYPE: Not reported

MAIL NAME: Chelan Cnty PUD No 1

MAIL ADDR LINE1: PO BOX 1231

MAIL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Chelan Cnty PUD No 1

LEGAL ORG TYPE: District

LEGAL ADDR LINE1: PO Box 1231

LEGAL ADDR LINE2: 427 N Wenatchee Av

LEGAL CITY,ST,ZIP: WENATCHEE, WA 98801

LEGAL COUNTRY: UNITED STATES

LEGAL PHONE NBR: (509)663-8121

4/17/1989

LAND ORG NAME: Chelan Cnty PUD No 1

LAND ORG TYPE: District
LAND PERSON NAME: Not reported
LAND ADDR LINE1: PO Box 1231

LEGAL EFFECTIVE DATE:

LAND ADDR LINE2: 427 N Wenatchee Av LAND CITY,ST,ZIP: WENATCHEE, WA 98801

LAND COUNTRY: UNITED STATES
LAND PHONE NBR: (509)663-8121
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: District
OPERATOR ADDR LINE1: PO BOX 1231

OPERATOR CITY,ST,ZIP: WENATCHEE, WA 98807-1231

OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 509663-8121
OPERATOR EFFECTIVE DATE: 10/4/1996
SITE CONTACT NAME: Jennifer Burns
SITE CONTACT ADDR LINE1: PO BOX 1231

SITE CONTACT ZIP: WENATCHEE, WA 98807-1231

SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: (509)663-8121
SITE CONTACT EMAIL: Not reported
FORM CONTACT NAME: Jennifer Burns
FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY, ST, ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: UNITED STATES FORM CONTACT PHONE NBR: 509663-8121

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org

GEN STATUS CD: SQG
MONTHLY GENERATION: No
BATCH GENERATION: Yes
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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

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: 14135572 SWC Desc: Not reported FWC Desc: Not reported Form Comm: Not reported Data Year: Not reported Permit by Rule: **FALSE** Treatment by Generator: **FALSE** Mixed radioactive waste: **FALSE** Importer of hazardous waste: **FALSE** Immediate recycler: **FALSE**

Treatment/Storage/Disposal/Recycling Facility: **FALSE** Generator of dangerous fuel waste: **FALSE** Generator marketing to burner: **FALSE** "Other marketers (i.e., blender, distributor, etc.)": **FALSE** Utility boiler burner: **FALSE** Industry boiler burner: **FALSE** Industrial Furnace: **FALSE** Smelter defferal: **FALSE** Universal waste - batteries - generate: **FALSE** Universal waste - thermostats - generate: **FALSE** Universal waste - mercury - generate: **FALSE** Universal waste - lamps - generate: **FALSE** Universal waste - batteries - accumulate: **FALSE** Universal waste - thermostats - accumulate: **FALSE** Universal waste - mercury - accumulate: **FALSE** Universal waste - lamps - accumulate: **FALSE** Destination Facility for Universal Waste: **FALSE** Off-specification used oil burner - utility boiler: **FALSE** Off-specification used oil burner - industrial boiler: **FALSE** Off-specification used oil burner - industrial furnace: FALSE

EPA ID: WAD041585290 Facility Address 2: Not reported TAX REG NBR: 048003756 NAICS CD: 221111 **BUSINESS TYPE:** Not reported Chelan Cnty PUD No 1 MAIL NAME:

MAIL ADDR LINE1: PO BOX 1231

WENATCHEE, WA 98807-1231 MAIL CITY, ST, ZIP:

MAIL COUNTRY: **UNITED STATES** LEGAL ORG NAME: Chelan Cnty PUD No 1

LEGAL ORG TYPE: District LEGAL ADDR LINE1: PO Box 1231 LEGAL ADDR LINE2:

427 N Wenatchee Av WENATCHEE, WA 98801 LEGAL CITY, ST, ZIP:

LEGAL COUNTRY: **UNITED STATES** LEGAL PHONE NBR: (509)663-8121 LEGAL EFFECTIVE DATE: 4/17/1989

LAND ORG NAME: Chelan Cnty PUD No 1

LAND ORG TYPE: District Not reported LAND PERSON NAME: LAND ADDR LINE1: PO Box 1231

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

LAND ADDR LINE2: 427 N Wenatchee Av WENATCHEE, WA 98801 LAND CITY, ST, ZIP:

UNITED STATES LAND COUNTRY: LAND PHONE NBR: (509)663-8121 OPERATOR ORG NAME: Not reported **OPERATOR ORG TYPE:** District **OPERATOR ADDR LINE1:** PO BOX 1231

OPERATOR CITY, ST, ZIP: WENATCHEE, WA 98807-1231

OPERATOR COUNTRY: **UNITED STATES** OPERATOR PHONE NBR: 509663-8121 OPERATOR EFFECTIVE DATE: 10/4/1996 Jennifer Burns SITE CONTACT NAME: SITE CONTACT ADDR LINE1: PO BOX 1231

SITE CONTACT ZIP: WENATCHEE, WA 98807-1231

SITE CONTACT COUNTRY: **UNITED STATES** SITE CONTACT PHONE NBR: (509)663-8121 SITE CONTACT EMAIL: Not reported FORM CONTACT NAME: Jennifer Burns FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY, ST, ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: **UNITED STATES** FORM CONTACT PHONE NBR: 509663-8121

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org

GEN STATUS CD: SQG MONTHLY GENERATION: **FALSE TRUE BATCH GENERATION:** ONE TIME GENERATION: **FALSE** TRANSPORTS OWN WASTE: **FALSE** TRANSPORTS OTHRS WASTE: FALSE RECYCLER ONSITE: **FALSE** TRANSFER FACILITY: **FALSE** OTHER EXEMPTION: Not reported **FALSE** UW BATTERY GEN: **USED OIL TRANSPORTER: FALSE** USED OIL TRANSFER FACLTY: FALSE

USED OIL PROCESSOR:

USED OIL REREFINER:

USED OIL FUEL MRKTR DIRECTS SHPMNTS: **FALSE** USED OIL FUEL MRKTR MEETS SPECS: **FALSE**

FALSE

FALSE

Facility Site ID Number: 14135572 SWC Desc: Not reported FWC Desc: D001, D018 Form Comm: Not reported Data Year: 2008 Permit by Rule: False Treatment by Generator: False Mixed radioactive waste: False Importer of hazardous waste: False Immediate recycler: False

Treatment/Storage/Disposal/Recycling Facility: False Generator of dangerous fuel waste: False Generator marketing to burner: False "Other marketers (i.e., blender, distributor, etc.)": False Utility boiler burner: False Industry boiler burner: False Industrial Furnace: False

Direction Distance Elevation

ance EDR ID Number vation Site Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

Smelter defferal: False Universal waste - batteries - generate: False False Universal waste - thermostats - generate: 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: WAD041585290

 EPA ID:
 WAD04158529

 Facility Address 2:
 Not reported

 TAX REG NBR:
 048003756

 NAICS CD:
 221111

 BUSINESS TYPE:
 Not reported

MAIL NAME: Chelan Cnty PUD No 1

MAIL ADDR LINE1: PO BOX 1231

MAIL CITY,ST,ZIP: WENATCHEE, WA 98807-1231

MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Chelan Cnty PUD No 1
LEGAL ORG TYPE: District
LEGAL ADDR LINE1: PO Box 1231

LEGAL ADDR LINE2: 427 N Wenatchee Av LEGAL CITY,ST,ZIP: WENATCHEE, WA 98801

LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: (509)663-8121
LEGAL EFFECTIVE DATE: 4/17/1989

LAND ORG NAME: Chelan Cnty PUD No 1

LAND ORG TYPE: District

LAND PERSON NAME: Not reported

LAND ADDR LINE1: PO Box 1231

LAND ADDR LINE2: 427 N Wenatchee Av

LAND CITY,ST,ZIP: WENATCHEE, WA 98801

LAND COUNTRY: UNITED STATES
LAND PHONE NBR: (509)663-8121
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: District
OPERATOR ADDR LINE1: PO BOX 1231

OPERATOR CITY, ST, ZIP: WENATCHEE, WA 98807-1231

OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 509663-8121
OPERATOR EFFECTIVE DATE: 10/4/1996
SITE CONTACT NAME: Jennifer Burns
SITE CONTACT ADDR LINE1: PO BOX 1231

SITE CONTACT ZIP: WENATCHEE, WA 98807-1231

SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: (509)663-8121
SITE CONTACT EMAIL: Not reported
FORM CONTACT NAME: Jennifer Burns
FORM CONTACT ADDR LINE1: PO BOX 1231

FORM CONTACT CITY,ST,ZIP: WENATCHEE, WA 98807-1231

FORM CONTACT COUNTRY: UNITED STATES FORM CONTACT PHONE NBR: 509663-8121

FORM CONTACT EMAIL: jennifer.burns@chelanpud.org

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

CHELAN CNTY PUD 1 WENATCHEE AVE (Continued)

1000276579

GEN STATUS CD: SQG 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

<u>Click this hyperlink</u> while viewing on your computer to access additional WA MANIFEST: detail in the EDR Site Report.

ICR:

Date Ecology Received Report: 05/08/91

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Waste Management: Tank
Region: Central
Type of Report Ecology Received: Not reported
Site Register Issue: 91-29
County Code: 4

Contact: Not reported Report Title: Not reported

K43 APPLE CITY ELECTRIC ALLSITES U003759260 WNW 326 N WENATCHEE AVE LUST N/A

1/4-1/2 0.402 mi.

2123 ft. Site 3 of 4 in cluster K

Relative: ALLSITES:

Higher Facility Id: 64138797

WENATCHEE, WA 98801

Latitude: 47.429689732150301

Actual: Longitude: -120.317249156182

659 ft. Geographic location identifier (alias facid): 64138797

Facility Name: APPLE CITY ELECTRIC
Latitude Decimal Degrees: 47.429689732200004
Longitude Decimal Degrees: -120.317249156

Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 99
Coordinate Point Geographic Position Code: 8
Location Verified Code: Y

Geographic Location Identifier (Alias Facid): 64138797 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 561447 Interaction Start Date: 2/23/2001 **UST**

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

APPLE CITY ELECTRIC (Continued)

U003759260

Interaction End Date: 2/24/2001 Not reported prgm_facil: TOXICS cur_sys_pr: ISIS cur_sys_nm:

Geographic Location Identifier (Alias Facid): 64138797 Interaction (Aka Env Int) Type Code: LUST Interaction (Aka Env Int) Description: **LUST Facility**

Interaction Status:

Federal Program Indentifier: 561447 Interaction Start Date: 4/2/1993 Interaction End Date: 3/3/2004 Not reported prgm_facil: cur_sys_pr: **TOXICS** cur_sys_nm: ISIS

LUST:

edr_fstat: WA 98801 edr_fzip: edr_fcnty: **CHELAN** 98801-2012 edr_zip: FS ID: 64138797 Facility ID: 561447

Facility Status: Reported Cleaned Up

Release ID: 561483 Affected Media: Soil

Alternate Name: MILLER PROPERTY

Release Notification Date: 4/2/1993 3/3/2004 Release Status Date: Site Response Unit Code: CENTRAL

Lat/Long: 47.4296897321503 / -120.317249156182

WA edr_fstat: edr_fzip: 98801 edr_fcnty: CHELAN edr zip: 98801-2012 FS ID: 64138797 Facility ID: 561447

Facility Status: Cleanup Started

Release ID: 561483 Affected Media: Soil

Alternate Name: MILLER PROPERTY

Release Notification Date: 4/2/1993 Release Status Date: 4/2/1993 Site Response Unit Code: CENTRAL

47.4296897321503 / -120.317249156182 Lat/Long:

WA edr_fstat: 98801 edr_fzip: edr_fcnty: **CHELAN** 98801-2012 edr_zip: FS ID: 64138797 Facility ID: 561447

Facility Status: Awaiting Cleanup

Release ID: 561483 Affected Media: Soil

Direction Distance

Elevation Site Database(s) **EPA ID Number**

APPLE CITY ELECTRIC (Continued)

U003759260

EDR ID Number

Alternate Name: MILLER PROPERTY

Release Notification Date: 4/2/1993 4/2/1993 Release Status Date: Site Response Unit Code: CENTRAL

Lat/Long: 47.4296897321503 / -120.317249156182

UST:

Facility ID: 64138797 Site ID: 561447 Lat Deg: 47 Lat Min: 25

46.8830357410837 Lat Sec:

Long Deg: -120 Long Min: 19

Long Sec: 2.09696225387347 UBI: Not reported Phone Number: Not reported

Tank ID: 561452 Tank Name: Install Date: 1/1/1960

Capacity: 2,001 to 4,999 Gallons

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:1/23/1973 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: 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: 2/23/2001 Tag Number: Not reported

Tank ID: 561457 Tank Name: 2 Install Date: 1/1/1960

Capacity: 5,000 to 9,999 Gallons

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:1/1/1973 Tank Status: Removed Tank Permit Expiration Date: 1/1/0001 Tank Closure Date: 1/1/0001

Direction Distance Elevation

EDR ID Number Site Database(s) **EPA ID Number**

APPLE CITY ELECTRIC (Continued)

U003759260

Tank Pumping System: Not reported Tank Spill Prevention: Not reported Tank Overfill Prevention: Not reported Tank Material: Steel Tank Construction: Not reported Not reported Tank Tightness Test: Tank Corrosion Protection: Not reported Pipe Material: Not reported Not reported Pipe Construction: 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: 2/23/2001 Tag Number: Not reported

Tank ID: 561462 Tank Name:

Install Date: 1/1/1960

1.101 to 2.000 Gallons Capacity:

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:1/1/1973 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: 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: 2/23/2001 Tag Number: Not reported

Tank ID: 561467 Tank Name: Install Date: 1/1/1960 Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:1/1/1973 Tank Status: Removed Tank Permit Expiration Date: 1/1/0001

MAP FINDINGS Map ID Direction

Distance Elevation

Site Database(s) **EPA ID Number**

APPLE CITY ELECTRIC (Continued)

U003759260

EDR ID Number

Tank Closure Date: Tank Pumping System: Not reported Tank Spill Prevention: Not reported Tank Overfill Prevention: Not reported Tank Material: Steel Tank Construction: Not reported Not reported Tank Tightness Test: Tank Corrosion Protection: Not reported Not reported Pipe Material: 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: 2/23/2001 Tag Number: Not reported

1/1/0001

Tank ID: 561473 Tank Name: 5 1/1/1960 Install Date:

Capacity: 1,101 to 2,000 Gallons

Not reported

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:1/1/1973 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: 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 Not reported Pipe Tightness Test: Tank Actual Status Date: 2/23/2001 Tag Number: Not reported

Tank ID: 561478 Tank Name: Install Date: 1/1/1960 Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:1/1/1973 Tank Status: Removed

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

APPLE CITY ELECTRIC (Continued)

U003759260

ICR S104959646

N/A

Tank Permit Expiration Date: 1/1/0001 1/1/0001 Tank Closure Date: 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: 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 Not reported Pipe Tightness Test: Tank Actual Status Date: 2/23/2001 Tag Number: Not reported

K44 MILLER PROPERTY/APPLE CITY ELECTRIC

WNW 326 N. WENATCHEE AVE. 1/4-1/2 WENATCHEE, WA 98801 0.402 mi.

2123 ft. Site 4 of 4 in cluster K ICR:

Relative:

Higher

Date Ecology Received Report: 05/15/93

Contaminants Found at Site: Petroleum products Actual: Groundwater, Soil Media Contaminated: 659 ft.

Waste Management: Tank Central

> Type of Report Ecology Received: Final cleanup report

Site Register Issue: 93-03 County Code: 4 Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 05/18/93

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil Waste Management: Tank Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 93-16 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 05/18/93

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil Waste Management: Tank Central Region:

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-34 County Code:

Contact: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MILLER PROPERTY/APPLE CITY ELECTRIC (Continued)

S104959646

ALLSITES

Report Title: Site Assessment/Cleanup Report

RCRA-NonGen L45 **USWCOM WENATCHEE TOLL 408** 1000179479 SSW **FINDS** 201 S CHELAN WAT540012606

WENATCHEE, WA 98801 1/4-1/2

0.407 mi.

2151 ft. Site 1 of 2 in cluster L

RCRA-NonGen: Relative:

Date form received by agency: 11/21/1997 Higher

USWCOM WENATCHEE TOLL 408 Facility name:

Actual: Facility address: 201 S CHELAN 707 ft.

WENATCHEE, WA 98801

EPA ID: WAT540012606

Mailing address: 7235 S 228TH ST

KENT, WA 98032-2929

EMMA HOPE Contact: Contact address: 7235 S 228TH ST

KENT, WA 98032-2929

Contact country: US

Contact telephone: (253)859-6505 Contact email: Not reported

EPA Region:

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: **QWEST CORP** Owner/operator address: 7235 S 228TH ST

KENT, WA 98032

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 05/03/1996 Owner/Op end date: Not reported

Handler Activities Summary:

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

Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

USWCOM WENATCHEE TOLL 408 (Continued)

1000179479

FINDS:

Registry ID: 110005407363

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:

Facility Id: 38885863

Latitude: 47.42103999999998

Longitude: -120.31287

Geographic location identifier (alias facid): 38885863

USWCOM Wenatchee Toll 408 Facility Name:

Latitude Decimal Degrees: 47.42103999999998

Longitude Decimal Degrees: -120.31287 Coordinate Point Areal Extent Code: Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 99 Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 38885863 Interaction (Aka Env Int) Type Code: **HWG**

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAT540012606 Interaction Start Date: 5/7/1981 Interaction End Date: 12/31/1996 Not reported prgm_facil: HAZWASTE cur_sys_pr: **TURBOWASTE** cur_sys_nm:

L46 **US DEPT OF AGRICULTURE FHA**

301 YAKIMA ST

ALLSITES U003311149 **UST** N/A

1/4-1/2

WENATCHEE, WA 98807

0.408 mi.

SSW

2156 ft. Site 2 of 2 in cluster L

ALLSITES: Relative:

6998538 Facility Id: Higher Latitude: 47.420918

Actual: Longitude: -120.31321199999999 708 ft. Geographic location identifier (alias facid): 6998538

Facility Name: US DEPT OF AGRICULTURE FHA

Latitude Decimal Degrees: 47.420918

Longitude Decimal Degrees: -120.31321199999999

Coordinate Point Areal Extent Code: 4 Horizontal Accuracy Code: 13 Coordinate Point Geographic Position Code: 5 Location Verified Code: Ν

Direction Distance

Elevation Site Database(s) EPA ID Number

US DEPT OF AGRICULTURE FHA (Continued)

U003311149

EDR ID Number

Geographic Location Identifier (Alias Facid): 6998538 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

prgm_facil:

cur_sys_pr:

cur_sys_nm:

A47664

Interaction End Date:

Not reported

Not reported

TOXICS

ISIS

UST:

 Facility ID:
 6998538

 Site ID:
 447664

 Lat Deg:
 47

 Lat Min:
 25

Lat Sec: 15.3048000000013

Long Deg: -120 Long Min: 18

Long Sec: 47.5631999999746
UBI: Not reported
Phone Number: Not reported

Tank ID: 447677 Tank Name: Not reported Install Date: 1/1/1900 Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:5/11/1998 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 12/10/1999 Tank Actual Status Date: Tag Number: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

47 CHELAN COUNTY PUBLIC WORKS WENATCHEE ALLSITES U001128319
SW 350 ORONDO AVE UST N/A

SW 350 ORONDO AVE 1/4-1/2 WENATCHEE, WA 98801

0.417 mi. 2199 ft.

Relative: ALLSITES:

Higher Facility Id: 12196161

Latitude: 47.42183800000001

Actual: Longitude: -120.315212

719 ft. Geographic location identifier (alias facid): 12196161

Facility Name: Chelan County Public Works Wenatchee

Latitude Decimal Degrees: 47.421838000000001

Longitude Decimal Degrees: -120.315212

Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 13
Coordinate Point Geographic Position Code: 5
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 12196161
Interaction (Aka Env Int) Type Code: RECYCLE
Interaction (Aka Env Int) Description: Recycling
Interaction Status: A
Federal Program Indentifier: Not reported

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

Not reported

Not reported

prgm_facil: Chelan County Public Works

cur_sys_pr: W2R cur_sys_nm: SWFD

Geographic Location Identifier (Alias Facid): 12196161 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 101340
Interaction Start Date: 1/1/1964
Interaction End Date: 12/10/1999
prgm_facil: Not reported cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 12196161 Interaction (Aka Env Int) Type Code: MS4P2EAS

Interaction (Aka Env Int) Description: Municipal SW Phase II Eastern

Interaction Status:

Federal Program Indentifier: WAR046002
Interaction Start Date: 2/16/2007
Interaction End Date: Not reported
prgm_facil: CHELAN COUNTY
cur_sys_pr: WATQUAL

cur_sys_nm: VATQU

UST:

 Facility ID:
 12196161

 Site ID:
 101340

 Lat Deg:
 47

 Lat Min:
 25

Lat Sec: 18.6168000000038

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

CHELAN COUNTY PUBLIC WORKS WENATCHEE (Continued)

U001128319

EDR ID Number

Long Deg: -120 Long Min: 18

 Long Sec:
 54.763200000009

 UBI:
 Not reported

 Phone Number:
 5096645233

Tank ID: 26472 Tank Name: 1

Install Date: 12/31/1964 Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Closed in Place TankSystem Status Change Date:8/26/1996 Tank Status: Closed in Place 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 ID:
 508578

 Tank Name:
 2

 Install Date:
 1/1/1900

Tank Second Release Detection: Not reported

Pipe Tightness Test:

Tag Number:

Tank Actual Status Date:

Capacity: 10,000 to 19,999 Gallons

Not reported

Not reported

8/6/1996

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:8/12/1999 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

Distance

Elevation Site Database(s) EPA ID Number

CHELAN COUNTY PUBLIC WORKS WENATCHEE (Continued)

U001128319

EDR ID Number

Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 12/10/1999 Tag Number: Not reported

 Tank ID:
 508583

 Tank Name:
 3

 Install Date:
 1/1/1900

Capacity: 10,000 to 19,999 Gallons

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:8/12/1999 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: 12/10/1999 Tag Number: Not reported

Tank ID: 508588 Tank Name: Install Date: 1/1/1964 Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:8/12/1999 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

Direction Distance

Elevation Site Database(s) **EPA ID Number**

CHELAN COUNTY PUBLIC WORKS WENATCHEE (Continued)

U001128319

EDR ID Number

Pipe Corrosion Protection: Not reported Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported Not reported Pipe Tightness Test: Tank Actual Status Date: 12/10/1999 Tag Number: Not reported

M48 **WENATCHEE CITY WWTP FINDS** 1007081444 **ALLSITES** N/A

NNW 1 5TH ST

1/4-1/2 WENATCHEE, WA 98801

0.422 mi.

2230 ft. Site 1 of 3 in cluster M

FINDS: Relative:

Higher

Registry ID: 110015581921

Actual: 635 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.

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: 53136899

47.431040000000003 Latitude:

Longitude: -120.31502

Geographic location identifier (alias facid): 53136899

Facility Name: WENATCHEE CITY WWTP Latitude Decimal Degrees: 47.431040000000003

Longitude Decimal Degrees: -120.31502

99 Coordinate Point Areal Extent Code: Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 99 Location Verified Code:

Geographic Location Identifier (Alias Facid): 53136899 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAR000006445 Interaction Start Date: 11/27/1995 Interaction End Date: 12/31/1995 pram facil: Not reported **HAZWASTE** cur_sys_pr: cur_sys_nm: **TURBOWASTE**

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WENATCHEE CITY WWTP (Continued)

1007081444

S106495727

N/A

CSCSL

ALLSITES

HSL

VCP

Geographic Location Identifier (Alias Facid): 53136899 Interaction (Aka Env Int) Type Code: **AQPR**

Interaction (Aka Env Int) Description: Air Qual Periodic Reg

Interaction Status:

Federal Program Indentifier: Not reported Interaction Start Date: 10/28/1997 Not reported Interaction End Date: prgm_facil: Not reported **AIRQUAL** cur_sys_pr: cur_sys_nm: **AIRSIS**

M49 **UNOCAL BULK PLANT 0853**

NNW

1/4-1/2 WENATCHEE, WA

0.424 mi.

2238 ft. Site 2 of 3 in cluster M

Relative:

CSCSL:

Higher

Facility ID: 346 Facility Type: VCP

Actual: 637 ft.

Region: Central **Ecology Status Code:** 3/28/1991 Entered Date:

Updated Date: 4/20/2010 **Brownfield Status:** Rank Status:

PSI Status: Not reported Not reported Clean Method: Drinking Water Type: Not reported Cleanup Standard: Not reported Acres Remediated: Not reported 47.4311933 Latitude: Longitude: -120.315326

Lat/Long: 47.4311933 / -120.315326 Lat/Long (dms): 47 25 52.296 / -120 18 55.174

Media Status Desc: 1/1/0001 Affected Media: Groundwater Confirmed Affected Media Status: Pesticides: Not reported Petroleum Products: Confirmed Phenolic Compounds: Not reported Reactive Wastes: Not reported Not reported Corrosive Wastes: Radioactive Wastes: Not reported Asbestos: Not reported Responsible Unit: **CENTRAL** Not reported Arsenic Code: MTBE Code: Not reported UXO Code: Not reported Dioxin: Not reported

Non-Halogenated Solvents: Not reported Not reported Base/Neutral/Acid Organics: 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

Direction Distance Elevation

vation Site Database(s) EPA ID Number

UNOCAL BULK PLANT 0853 (Continued)

S106495727

EDR ID Number

Conventional Contaminants, Organic:

Conventional Contaminants, Inorganic:

Not reported
Tibutyl Tin Contaminant Group:

Bioassay/Benthic Failures Contaminant Group:

Wood Debris Contaminant Group:

Other Deleterious Substance Group:

Ecology Site Status (MTCA cleanup process):

Not reported

Not reported

RA in Progress

Facility ID: 346
Facility Type: VCP
Region: Central
Ecology Status Code: 3
Entered Date: 3/28/1991
Updated Date: 4/20/2010

Brownfield Status: 0 Rank Status: 1

PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.4311933
Longitude: -120.315326

Lat/Long: 47.4311933 / -120.315326 Lat/Long (dms): 47.25.52.296 / -120.18.55.174

1/1/0001 Media Status Desc: Affected Media: Soil Affected Media Status: Confirmed Pesticides: Not reported Confirmed Petroleum Products: Phenolic Compounds: Not reported Reactive Wastes: Not reported Not reported Corrosive Wastes: Radioactive Wastes: Not reported Not reported Asbestos: Responsible Unit: CENTRAL 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 RA in Progress Ecology Site Status (MTCA cleanup process):

HSL:

edr_fstat: WA

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

UNOCAL BULK PLANT 0853 (Continued)

S106495727

edr_fzip: Not reported edr_fcnty: **CHELAN** Not reported edr_zip: Facility Type: **Hazardous Sites List**

Facility Status: RA in progress

FSID Number: 346 Rank: CRO Region:

ALLSITES:

Facility Id: 346

Latitude: 47.431193299999997

Longitude: -120.315326 Geographic location identifier (alias facid):

Facility Name: Unocal Bulk Plant 0853 Latitude Decimal Degrees: 47.431193299999997

Longitude Decimal Degrees: -120.315326

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: Coordinate Point Geographic Position Code: 99 Location Verified Code:

Geographic Location Identifier (Alias Facid): 346 Interaction (Aka Env Int) Type Code: TIER2

Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2

Interaction Status:

Federal Program Indentifier: CRK000016030 Interaction Start Date: 1/1/1988 Interaction End Date: Not reported Not reported prgm_facil: **HAZWASTE** cur_sys_pr: cur_sys_nm: **EPCRA**

Geographic Location Identifier (Alias Facid): 346 Interaction (Aka Env Int) Type Code: SCS

Interaction (Aka Env Int) Description: State Cleanup Site

Interaction Status:

Federal Program Indentifier: Not reported 4/16/1996 Interaction Start Date: Interaction End Date: 3/18/2009

Unocal Bulk Plant 0853 prgm_facil:

cur_sys_pr: **TOXICS** cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 346 Interaction (Aka Env Int) Type Code: **VOLCLNST**

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status: Α CE0306 Federal Program Indentifier: Interaction Start Date: 3/18/2009 Interaction End Date: Not reported

Unocal Bulk Plant 0853 prgm_facil:

TOXICS cur_sys_pr: ISIS cur_sys_nm:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

UNOCAL BULK PLANT 0853 (Continued)

S106495727

ALLSITES

NPDES

S109553027

N/A

VCP:

Rank:

WA edr_fstat: 98801 edr_fzip: edr_fcnty: **CHELAN** edr_zip: 98801-2016 Facility ID: 346 VCP Status: VCP VCP: Not reported **Ecology Status:** RA in Progress NFA Type: RA in Progress Date NFA: RA in Progress

edr_fstat: WA 98801 edr_fzip: edr_fcnty: **CHELAN** edr_zip: 98801-2016 Facility ID: 346 VCP Status: VCP VCP: Not reported **Ecology Status:** RA in Progress

RA in Progress

RA in Progress NFA Type: Date NFA: RA in Progress RA in Progress Rank:

M50 PHILLIPPI FRUIT CO 6 A FIFTH

NNW 6 5TH ST STE A WENATCHEE, WA 98801 1/4-1/2

0.425 mi.

2243 ft. Site 3 of 3 in cluster M

ALLSITES: Relative:

Facility Id: 1332691 Higher

Latitude: 47.4238623997377 Actual: -120.344045895579 Longitude: 637 ft. Geographic location identifier (alias facid):

> PHILLIPPI FRUIT CO 6 A FIFTH Facility Name:

Latitude Decimal Degrees: 47.423862399699999 Longitude Decimal Degrees: -120.344045896

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 99 Coordinate Point Geographic Position Code: Location Verified Code:

Geographic Location Identifier (Alias Facid): 1332691 Interaction (Aka Env Int) Type Code: TIER2

Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2

Interaction Status:

Federal Program Indentifier: CRK000060110 Interaction Start Date: 10/7/2003 Not reported Interaction End Date: Not reported prgm_facil: HAZWASTE cur_sys_pr: **EPCRA** cur_sys_nm:

Geographic Location Identifier (Alias Facid): 1332691 Interaction (Aka Env Int) Type Code: **FRUITGP**

Direction Distance Elevation

vation Site Database(s) EPA ID Number

PHILLIPPI FRUIT CO 6 A FIFTH (Continued)

S109553027

EDR ID Number

Interaction (Aka Env Int) Description: Fruit Packer GP

Interaction Status:

Federal Program Indentifier: WAG435218
Interaction Start Date: 9/2/1994
Interaction End Date: Not reported

prgm_facil: PHILLIPPI FRUIT CO 6 A 5TH ST

6/11/2009

cur_sys_pr: WATQUAL cur_sys_nm: PARIS

NPDES:

Permit Issue Date:

Facility Status: Active Is Major: N

 Facility Type:
 Fruit Packer GP

 Latitude:
 47.4238623997377

 Longitude:
 -120.344045895579

 Permit ID:
 WAG435218

Ecology Contact: Cory Hixon
Ecology Contact Phone: (509) 454-7298
WRIA: Wenatchee
Permit Expiration Date: 7/1/2014
Effective Date: 7/2/2009

Facility Status: Active Is Major: N

Facility Type: Fruit Packer GP Latitude: 47.4238623997377 Longitude: -120.344045895579 Permit ID: WAG435218 Permit Issue Date: 6/15/2004 **Ecology Contact:** Cory Hixon **Ecology Contact Phone:** (509) 454-7298 WRIA: Wenatchee

Permit Expiration Date: 7/1/2009 Effective Date: 7/2/2004

Facility Status: Active Is Major: N

Facility Type: Fruit Packer GP Latitude: 47.4238623997377 Longitude: -120.344045895579 Permit ID: WAG435218 Permit Issue Date: 2/10/1994 **Ecology Contact:** Cory Hixon (509) 454-7298 **Ecology Contact Phone:** WRIA: Wenatchee

Permit Expiration Date: 3/4/1999
Effective Date: 9/2/1994

Facility Status: Active Is Major: N

 Facility Type:
 Fruit Packer GP

 Latitude:
 47.4238623997377

 Longitude:
 -120.344045895579

 Permit ID:
 WAG435218

 Permit Issue Date:
 6/15/1999

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PHILLIPPI FRUIT CO 6 A FIFTH (Continued)

S109553027

Ecology Contact: Cory Hixon (509) 454-7298 **Ecology Contact Phone:** WRIA: Wenatchee Permit Expiration Date: 7/1/2004

Effective Date: 7/1/1999

JN VAIL CO INC **FINDS** 1007072569 51 SSE **410 S WORTHEN ALLSITES** N/A UST

1/4-1/2 WENATCHEE, WA 98801

0.427 mi. 2252 ft.

FINDS: Relative:

Lower

110015491966 Registry ID:

Actual: 629 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.

ALLSITES:

Facility Id: 33169424

Latitude: 47.420617999999997

Longitude: -120.305432

Geographic location identifier (alias facid): 33169424 Facility Name: JN VAIL CO INC Latitude Decimal Degrees: 47.420617999999997

Longitude Decimal Degrees: -120.305432

Coordinate Point Areal Extent Code: 4 Horizontal Accuracy Code: 13 Coordinate Point Geographic Position Code: 5 Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 33169424 Interaction (Aka Env Int) Type Code:

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 11140 Interaction Start Date: 1/27/2000 Interaction End Date: Not reported prgm_facil: Not reported cur_sys_pr: **TOXICS** ISIS cur_sys_nm:

UST:

Facility ID: 33169424 Site ID: 11140 Lat Deg: 47 Lat Min: 25

Lat Sec: 14.224799999991

Long Deg: -120

Direction Distance

Elevation Site Database(s) **EPA ID Number**

JN VAIL CO INC (Continued) 1007072569

Long Min: 18

19.5551999999861 Long Sec: UBI: 0480079320010001 Phone Number: 5096631685

Tank ID: 39470 Tank Name: #1 Install Date:

12/31/1964

111 TO 1,100 Gallons Capacity:

Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:4/23/2001 Tank Status: Removed Tank Permit Expiration Date: 1/1/0001 Tank Closure Date: 1/1/0001 Tank Pumping System: Not reported Tank Spill Prevention: None Tank Overfill Prevention: None Tank Material: Not reported Tank Construction: Not reported Tank Tightness Test: Not reported Tank Corrosion Protection: None Pipe Material: Not reported Pipe Construction: Not reported Pipe Primary Release Detection: Not reported Pipe Second Release Detection: Not reported

Pipe Corrosion Protection: None Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 8/6/1996 Tag Number: Not reported

52 **CENTRAL WASHINGTON BANK MAIN OFFICE** RCRA-NonGen 1000697088 WNW **301 N CHELAN ST FINDS** WAD988507687

1/4-1/2 0.433 mi. 2284 ft.

RCRA-NonGen: Relative:

Date form received by agency: 06/20/1994 Higher

WENATCHEE, WA 98801

Facility name: CENTRAL WASHINGTON BANK MAIN OFFICE

Actual: Facility address: 301 N CHELAN ST 688 ft.

WENATCHEE, WA 98801 EPA ID: WAD988507687

Mailing address: PO BOX 3026 WENATCHEE, WA 98807-3026

CHARLES TROXLER

Contact:

Contact address: PO BOX 3026

WENATCHEE, WA 98807-3026

Contact country: US

Contact telephone: (509)664-2149 Contact email: Not reported EPA Region: 10

Land type: Other land type Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

ALLSITES

EDR ID Number

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CENTRAL WASHINGTON BANK MAIN OFFICE (Continued)

1000697088

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: Nο 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: 01/01/1994

Facility name: CENTRAL WASHINGTON BANK MAIN OFFICE

Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 02/16/1993

COMPLIANCE ASSISTANCE VISIT Evaluation:

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

FINDS:

110005376404 Registry ID:

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:

84521877 Facility Id:

47.426409999999997 Latitude:

Longitude: -120.31751

Geographic location identifier (alias facid): 84521877

Facility Name: Central Washington Bank Main Office

Latitude Decimal Degrees: 47.426409999999997

Longitude Decimal Degrees: -120.31751

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 99

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CENTRAL WASHINGTON BANK MAIN OFFICE (Continued)

1000697088

S104486179

N/A

ICR

Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 84521877 Interaction (Aka Env Int) Type Code: **HWG**

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD988507687 Interaction Start Date: 6/17/1992 Interaction End Date: 12/8/1993 prgm_facil: Not reported **HAZWASTE** cur_sys_pr: **TURBOWASTE** cur_sys_nm:

N53 **CHELAN COUNTY PUD - FLEET SERVICE FACILITY**

NW 427 N. WENATCHEE AVE. 1/4-1/2 WENATCHEE, WA 98801

0.439 mi.

2315 ft. Site 1 of 2 in cluster N

ICR: Relative:

Date Ecology Received Report: 10/01/93 Higher

Contaminants Found at Site: Petroleum products Actual: Media Contaminated: Groundwater, Soil

658 ft. Waste Management: Tank

Region: Central Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 93-16 County Code: 4

Contact: Not reported Report Title: Not reported

N54 MICKS FIFTH STREET SERVICE **FINDS** 1007066301 NW **424 N WENATCHEE AVE ALLSITES** N/A UST

1/4-1/2 WENATCHEE, WA 98801

0.439 mi.

2316 ft. Site 2 of 2 in cluster N

FINDS: Relative:

Higher

Registry ID: 110015428811

Actual: 658 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.

ALLSITES:

Facility Id: 72135888

47.431108000000002 Latitude:

-120.318133 Longitude:

Geographic location identifier (alias facid): 72135888

Direction Distance

Elevation Site Database(s) EPA ID Number

MICKS FIFTH STREET SERVICE (Continued)

1007066301

EDR ID Number

Facility Name: MICKS FIFTH STREET SERVICE

Latitude Decimal Degrees: 47.431108000000002

Longitude Decimal Degrees: -120.318133

Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 13
Coordinate Point Geographic Position Code: 5
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 72135888 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

prgm_facil:

cur_sys_pr:

cur_sys_nm:

ISIS

UST:

Facility ID: 72135888
Site ID: 5645
Lat Deg: 47
Lat Min: 25

Lat Sec: 51.9888000000066

Long Deg: -120 Long Min: 19

 Long Sec:
 5.27880000001119

 UBI:
 Not reported

 Phone Number:
 5096632014

 Tank ID:
 15590

 Tank Name:
 2-U

 Install Date:
 5/1/1974

Capacity: 5,000 to 9,999 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: 2/23/1995 Tank Pumping System: Not reported Tank Spill Prevention: Spill Bucket/Spill Box Tank Overfill Prevention: Ball Float Valve (vent line)

Tank Material: 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: Suction
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: None

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

MICKS FIFTH STREET SERVICE (Continued)

1007066301

EDR ID Number

Tank Actual Status Date: 2/23/1995
Tag Number: Not reported

 Tank ID:
 285

 Tank Name:
 1-R

 Install Date:
 5/1/1958

Capacity: 5,000 to 9,999 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: 2/23/1995
Tank Pumping System: Not reported
Tank Spill Prevention: Not reported

Tank Overfill Prevention: Ball Float Valve (vent line)

Tank Material: Not reported Tank Construction: Not reported Tank Tightness Test: Not reported Tank Corrosion Protection: Not reported Pipe Material: Not reported Not reported Pipe Construction: 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 2/23/1995 Tank Actual Status Date: Tag Number: Not reported

 Tank ID:
 35748

 Tank Name:
 3-S

 Install Date:
 5/1/1958

Capacity: 2,001 to 4,999 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: 2/23/1995
Tank Pumping System: Not reported
Tank Spill Prevention: Spill Bucket/S

Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Ball Float Valve (vent line)

Tank Material: 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: Suction
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: None

Tank Primary Release Detection: Manual Inventory Control (daily)

Tank Second Release Detection: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MICKS FIFTH STREET SERVICE (Continued)

1007066301

Not reported Pipe Tightness Test: Tank Actual Status Date: 2/23/1995 Tag Number: Not reported

O55 APPLE CITY ELECTRIC INC **FINDS** 1007062679

NW **525 N PIERRE ST ALLSITES** N/A 1/4-1/2 WENATCHEE, WA 98807 UST

0.441 mi.

2331 ft. Site 1 of 2 in cluster O

FINDS: Relative:

Higher

Registry ID: 110015392207

Actual: 645 ft.

Environmental Interest/Information System

Washington Facility / Site Identification System (WA-FSIS) provides a means to guery 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: 94398431

Latitude: 47.432766919999999 Longitude: -120.31503979999999 Geographic location identifier (alias facid): 94398431

Facility Name: APPLE CITY ELECTRIC INC Latitude Decimal Degrees: 47.432766919999999 Longitude Decimal Degrees: -120.31503979999999

Coordinate Point Areal Extent Code: 4 Horizontal Accuracy Code: 4 Coordinate Point Geographic Position Code: 5 Location Verified Code:

Geographic Location Identifier (Alias Facid): 94398431 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 4971 1/27/2000 Interaction Start Date: Interaction End Date: 3/3/2004 prgm_facil: Not reported **TOXICS** cur_sys_pr: ISIS cur_sys_nm:

UST:

Facility ID: 94398431 Site ID: 4971 Lat Deg: 47 Lat Min: 25

Lat Sec: 57.9609119999958

Long Deg: -120 Long Min: 18

Long Sec: 54.1432799999779

Direction Distance Elevation

Site Database(s) **EPA ID Number**

APPLE CITY ELECTRIC INC (Continued)

1007062679

EDR ID Number

UBI: Not reported Phone Number: 5096632681

Tank ID: 35822 Tank Name: Install Date: 1/1/1976

Capacity:

2,001 to 4,999 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: 1/6/1994 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

Not reported Pipe Construction: 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: 11/4/1993 Tag Number: Not reported

Tank ID: 35923 Tank Name: 1/1/1981 Install Date: Not reported Capacity: 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: 1/6/1994 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

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

APPLE CITY ELECTRIC INC (Continued)

1007062679

Tank Actual Status Date: 11/4/1993
Tag Number: Not reported

P56 CHELAN COUNTY USED OIL COLLECTIONS FINDS 1011847242
SW 316 WASHINGTON ST STE 402 ALLSITES N/A

1/4-1/2 WENATCHEE, WA 98801

0.457 mi.

2411 ft. Site 1 of 2 in cluster P

Relative: FINDS:

Higher

Registry ID: 110037059642

Actual: 728 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.

ALLSITES:

Facility Id: 1928476

Latitude: 47.422907679608798 Longitude: -120.31574751506101 Geographic location identifier (alias facid): 1928476

Facility Name: Chelan County Used Oil Collections

Latitude Decimal Degrees: 47.422907679600002 Longitude Decimal Degrees: -120.315747515

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): 1928476
Interaction (Aka Env Int) Type Code: RECYCLE
Interaction (Aka Env Int) Description: Recycling
Interaction Status: A

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

Not reported

Not reported

prgm_facil: Chelan County Used Oil Collections

 cur_sys_pr:
 W2R

 cur_sys_nm:
 SWFD

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

P57 **INLAND WATER PEST CONTROL ROSES LAK** ALLSITES S110036630 SW N/A

316 WASHINGTON ST STE 401 WENATCHEE, WA 98891

1/4-1/2 0.457 mi.

2411 ft. Site 2 of 2 in cluster P

ALLSITES: Relative:

6453 Higher Facility Id:

46.546900000000001 Latitude:

Actual: Longitude: -120.479

728 ft. Geographic location identifier (alias facid): 6453

> Facility Name: INLAND WATER PEST CONTROL ROSES LAK

Latitude Decimal Degrees: 46.546900000000001

Longitude Decimal Degrees: -120.479 Coordinate Point Areal Extent Code: 0 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code:

Location Verified Code: Not reported

Geographic Location Identifier (Alias Facid): 6453

Interaction (Aka Env Int) Type Code: **APALGAEG**

Interaction (Aka Env Int) Description: AP Aquatic Plant and Algae Man

Interaction Status:

WAG994134 Federal Program Indentifier: Interaction Start Date: 8/21/2006 Interaction End Date: Not reported

INLAND WATER PEST CONTROL ROSES LAK prgm_facil:

WATQUAL cur_sys_pr: **PARIS** cur_sys_nm:

FEDERAL EXPRESS CORP WENATCHEE RCRA-NonGen

58 1000214210 WNW 412 N MISSION **FINDS** WAD988474755 1/4-1/2 WENATCHEE, WA 98801 **ALLSITES**

0.457 mi. 2410 ft.

RCRA-NonGen: Relative:

Higher Date form received by agency: 06/28/1990

FEDERAL EXPRESS CORP WENATCHEE Facility name:

Actual: 412 N MISSION Facility address: 668 ft. WENATCHEE, WA 98801

EPA ID: WAD988474755

Mailing address: 412 N MISSION ST

WENATCHEE, WA 98801-2008

Contact: CLARK MILLER 412 N MISSION ST Contact address:

WENATCHEE, WA 98801-2008

Contact country: US

(509)534-3310 Contact telephone: Not reported Contact email:

EPA Region: 10

Classification:

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: FEDERAL EXPRESS CORP

Owner/operator address: 412 N MISSION ST

WENATCHEE, WA 98801

Direction Distance

Elevation Site Database(s) EPA ID Number

FEDERAL EXPRESS CORP WENATCHEE (Continued)

1000214210

EDR ID Number

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 06/28/1990 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: Nο 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: Nο Used oil transfer facility: No Used oil transporter:

Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

FINDS:

Registry ID: 110005353866

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:

Facility Id: 86166174

Latitude: 47.42956999999998

Longitude: -120.31899

Geographic location identifier (alias facid): 86166174

Facility Name: Federal Express Corp Wenatchee

Latitude Decimal Degrees: 47.42956999999998

Longitude Decimal Degrees: -120.31899

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): 86166174 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Direction Distance

Elevation Site Database(s) EPA ID Number

FEDERAL EXPRESS CORP WENATCHEE (Continued)

1000214210

EDR ID Number

Federal Program Indentifier: WAD988474755
Interaction Start Date: 6/28/1990
Interaction End Date: 12/18/1990
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

 O59
 APPLE CITY ELECTRIC
 ICR
 \$104484585

 NW
 525 N. PIERRE ST.
 N/A

1/4-1/2 WENATCHEE, WA 98801

0.459 mi.

2426 ft. Site 2 of 2 in cluster O

Relative: Higher

Relative: ICR:

Date Ecology Received Report: 11/19/93

Contaminants Found at Site: Halogenated organic compounds, Petroleum products

Actual: 647 ft.

Media Contaminated: Soil
Waste Management: Tank
Region: Central

Type of Report Ecology Received: Final cleanup report

Site Register Issue: 93-28 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 12/09/93

Contaminants Found at Site: Halogenated organic compounds, Petroleum products

Media Contaminated: Soil
Waste Management: Tank
Region: Central

Type of Report Ecology Received: Final cleanup report

Site Register Issue: 93-28 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 05/18/93

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil
Waste Management: Tank
Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 94-54 County Code: 4

Contact: Not reported Report Title: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number**

Q60 **UNOCAL #0853** S105454509 N/A

NW 5TH ST. N. / WENATCHEE AVE. 1/4-1/2 WENATCHEE, WA 98801

0.466 mi.

2463 ft. Site 1 of 4 in cluster Q

Relative: Higher

ICR:

Date Ecology Received Report: 03/04/91

Contaminants Found at Site: Petroleum products

Actual: Media Contaminated: Soil 658 ft. Waste Management: Tank Region: Central

> Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 91-25 County Code:

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 09/23/93

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Waste Management: Tank Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 93-30 County Code:

Contact: Not reported Report Title: Not reported

FINDS 1007075330 Q61 **CHEVRON 97348** NW **502 N WENATCHEE AVE CSCSL** N/A 1/4-1/2 WENATCHEE, WA 98801 **ALLSITES**

0.473 mi.

2499 ft. Site 2 of 4 in cluster Q

FINDS: Relative:

Higher

110015519786 Registry ID:

Actual: 658 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: 15685336 Facility Type: Not reported Region: Central

Ecology Status Code:

Entered Date: 9/28/2005 Updated Date: 1/13/2010

Brownfield Status:

Rank Status: Not reported PSI Status: Not reported Clean Method: Not reported **EDR ID Number**

Direction Distance Elevation

ance EDR ID Number ation Site Database(s) EPA ID Number

CHEVRON 97348 (Continued)

1007075330

Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.43094806
Longitude: -120.3167502

Lat/Long: 47.43094806 / -120.3167502 Lat/Long (dms): 47.25 51.413 / -120 19 0.301

Media Status Desc: 9/28/2005 Affected Media: Soil Affected Media Status: Confirmed Not reported Pesticides: Petroleum Products: Confirmed Phenolic Compounds: Not reported Reactive Wastes: Not reported Corrosive Wastes: Not reported Radioactive Wastes: Not reported Not reported Asbestos: Responsible Unit: **CENTRAL** 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 Not reported Conventional Contaminants, Organic: Not reported Conventional Contaminants, Inorganic: 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: 15685336
Facility Type: Not reported
Region: Central
Ecology Status Code: 1

Entered Date: 9/28/2005 Updated Date: 1/13/2010 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 47.43094806 Latitude: Longitude: -120.3167502

Lat/Long: 47.43094806 / -120.3167502 Lat/Long (dms): 47.25.51.413 / -120.19.0.301

Media Status Desc: 1/1/0001
Affected Media: Groundwater
Affected Media Status: Confirmed

Direction Distance Elevation

nce EDR ID Number tition Site Database(s) EPA ID Number

CHEVRON 97348 (Continued)

1007075330

Pesticides: Not reported Petroleum Products: Confirmed Not reported Phenolic Compounds: Not reported Reactive Wastes: Corrosive Wastes: Not reported Not reported Radioactive Wastes: Not reported Asbestos: CENTRAL Responsible Unit: Arsenic Code: Not reported MTBE Code: Not reported UXO Code: Not reported Not reported Dioxin:

Non-Halogenated Solvents: Not reported Base/Neutral/Acid Organics: Not reported Halogenated Organic Compounds: Not reported EPA Priority Pollutants - Metals and Cyanide: Not reported Not reported Metals - Other non-priority pollutant medals: 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 Bioassav/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: 15685336

Latitude: 47.430948059999999

Longitude: -120.3167502

Geographic location identifier (alias facid): 15685336

Longitude Decimal Degrees: -120.3167502

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): 15685336
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility

Interaction Status:

Federal Program Indentifier:

5233
Interaction Start Date:

Interaction End Date:

Program_facil:

Cur_sys_pr:

Cur_sys_nm:

A

4/30/1991

Not reported

Not reported

TOXICS

ISIS

Geographic Location Identifier (Alias Facid): 15685336 Interaction (Aka Env Int) Type Code: SCS

Interaction (Aka Env Int) Description: State Cleanup Site

Interaction Status:

Federal Program Indentifier: Not reported Interaction Start Date: Not reported 12/28/2009

Direction Distance

Elevation Site Database(s) EPA ID Number

CHEVRON 97348 (Continued) 1007075330

Interaction End Date: Not reported prgm_facil: CHEVRON 97348

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 15685336 Interaction (Aka Env Int) Type Code: SCS

Interaction (Aka Env Int) Description: State Cleanup Site

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

prgm_facil:

Not reported

9/28/2005

1/30/2006

CHEVRON 97348

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 15685336 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 5233
Interaction Start Date: 1/27/2000
Interaction End Date: 8/19/2003
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 15685336
Interaction (Aka Env Int) Type Code: VOLCLNST

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status:

Federal Program Indentifier: CE0237
Interaction Start Date: 1/30/2006
Interaction End Date: 12/28/2009
prgm_facil: CHEVRON 97348

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Q62 CHEVRON #7348 ICR S104486218
NW 502 N. WENATCHEE N/A

NW 502 N. WENATCHEE 1/4-1/2 WENATCHEE, WA 98801

0.473 mi.

2499 ft. Site 3 of 4 in cluster Q

Relative: ICR:

Higher Date Ecology Received Report: 06/06/91

Contaminants Found at Site: Petroleum products

Actual: Media Contaminated: Groundwater, Soil

658 ft. Waste Management: Tank

Region: Central
Type of Report Ecology Received: Not reported
Site Register Issue: 91-31
County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 02/24/92

EDR ID Number

Direction Distance Elevation

Site Database(s) EPA ID Number

S104486218

EDR ID Number

CHEVRON #7348 (Continued)

Contaminants Found at Site:

Media Contaminated:

Waste Management:

Region:

Petroleum products

Groundwater

Tank

Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 92-19 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 08/13/93

Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater
Waste Management: Tank

Waste Management: Tank
Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 93-08 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 02/03/94

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Waste Management: Tank Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 93-20 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 05/11/94

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil
Waste Management: Tank
Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 93-30 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 11/26/93

Contaminants Found at Site:

Media Contaminated:

Waste Management:

Region:

Petroleum products

Groundwater

Tank

Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 94-10
County Code: 4
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 10/19/01
Contaminants Found at Site: Not reported
Media Contaminated: Groundwater

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEVRON #7348 (Continued)

S104486218

Waste Management: Tank Region: Central

Interim cleanup report Type of Report Ecology Received:

Site Register Issue: 98-41 County Code: 4

Contact: Not reported

Report Title: Subsurface Environmental Investigation

Date Ecology Received Report: 01/22/02

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater Waste Management: Tank

Region: Central Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-44 County Code:

Contact: Not reported

Report Title: Ground Water Monitoring and Sampling Report

Q63 U000921179 **CHEVRON 97348** LUST NW **502 N WENATCHEE AVE** UST N/A

1/4-1/2 0.473 mi.

Site 4 of 4 in cluster Q 2499 ft.

LUST: Relative:

edr fstat: WA Higher

WENATCHEE, WA 98801

edr_fzip: 988012058 Actual: edr_fcnty: **CHELAN** 658 ft. 98801-2058 edr_zip: FS ID: 15685336

Facility ID: 5233

Facility Status: Cleanup Started

Release ID: 3376 Affected Media: Soil

CHEVRON 7348 Alternate Name: Release Notification Date: 4/30/1991 Release Status Date: 6/6/1991 Site Response Unit Code: CENTRAL

47.43094806 / -120.3167502 Lat/Long:

edr_fstat: WA edr_fzip: 988012058 edr_fcnty: **CHELAN** 98801-2058 edr_zip: FS ID: 15685336 Facility ID: 5233

Facility Status: Cleanup Started

Release ID: 3376

Affected Media: **Ground Water** Alternate Name: CHEVRON 7348 Release Notification Date: 4/30/1991 Release Status Date: 6/6/1991 Site Response Unit Code: CENTRAL

Lat/Long: 47.43094806 / -120.3167502

edr_fstat: WA edr_fzip: 988012058

Direction Distance

Elevation Site Database(s) EPA ID Number

CHEVRON 97348 (Continued)

U000921179

EDR ID Number

edr_fcnty: CHELAN
edr_zip: 98801-2058
FS ID: 15685336
Facility ID: 5233
Facility Status: Monitoring
Release ID: 3376
Affected Media: Soil

Alternate Name: CHEVRON 7348
Release Notification Date: 4/30/1991
Release Status Date: 4/25/2006
Site Response Unit Code: CENTRAL

Lat/Long: 47.43094806 / -120.3167502

edr_fstat: 988012058 edr_fzip: CHELAN edr_fcnty: edr_zip: 98801-2058 FS ID: 15685336 Facility ID: 5233 Facility Status: Monitoring Release ID: 3376 Affected Media: **Ground Water** Alternate Name: CHEVRON 7348 Release Notification Date: 4/30/1991 Release Status Date: 4/25/2006

Site Response Unit Code: CENTRAL

Lat/Long: 47.43094806 / -120.3167502

UST:

Facility ID: 15685336
Site ID: 5233
Lat Deg: 47
Lat Min: 25

Lat Sec: 51.4130159999951

Long Deg: -120 Long Min: 19

 Long Sec:
 0.300720000004731

 UBI:
 Not reported

 Phone Number:
 5096637706

Tank ID: 33056 Tank Name: 1

Install Date: 12/31/1964

Capacity: 5,000 to 9,999 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: 6/6/1991 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

Direction Distance

Elevation Site Database(s) EPA ID Number

CHEVRON 97348 (Continued)

U000921179

EDR ID Number

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: 2/25/1991 Tag Number: Not reported

Tank ID: 33084
Tank Name: 5

Install Date: 12/31/1964

Capacity: 111 TO 1,100 Gallons

1/1/0001 Tank Upgrade Date: TankSystem Status: Removed TankSystem Status Change Date:8/26/1996 Tank Status: Removed Tank Permit Expiration Date: 1/1/0001 Tank Closure Date: 6/6/1991 Tank Pumping System: Not reported Tank Spill Prevention: Not reported Tank Overfill Prevention: Not reported Tank Material: Steel

Single Wall Tank Tank Construction: 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 Not reported Pipe Tightness Test: Tank Actual Status Date: 2/25/1991

 Tank ID:
 33178

 Tank Name:
 3

Tag Number:

Install Date: 12/31/1964

Capacity: 10,000 to 19,999 Gallons

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: 6/6/1991 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

Direction Distance

Elevation Site Database(s) EPA ID Number

CHEVRON 97348 (Continued)

U000921179

EDR ID Number

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: 2/25/1991 Tag Number: Not reported

Tank ID: 33192 Tank Name: 2

Install Date: 12/31/1964

Capacity: 10,000 to 19,999 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 Permit Expiration Date: 1/1/0001
Tank Closure Date: 6/6/1991
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 Not reported Pipe Corrosion Protection: Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 2/25/1991 Tag Number: Not reported

Tank ID: 33344
Tank Name: 4

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: 6/6/1991 Tank Pumping System: Not reported Tank Spill Prevention: Not reported Tank Overfill Prevention: Not reported Tank Material: Steel

Tank Construction: Single Wall Tank

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEVRON 97348 (Continued) U000921179

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 2/25/1991 Tank Actual Status Date: Tag Number: Not reported

Tank ID: 618923 Tank Name: **FOUND** Install Date: 1/1/0001 Not reported Capacity: Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:9/28/2005 Tank Status: Removed Tank Permit Expiration Date: 1/1/0001 Tank Closure Date: 6/6/1991 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 Not reported Pipe Corrosion Protection: Tank Primary Release Detection: Not reported Tank Second Release Detection: Not reported Pipe Tightness Test: Not reported Tank Actual Status Date: 2/25/1991 Tag Number: Not reported

BURLINGTON NORTHERN RAILROAD S104486125 **ICR** N/A

SSE 409 S. COLUMBIA ST. 1/4-1/2 WENATCHEE, WA 98801

0.473 mi.

Actual:

R64

2497 ft. Site 1 of 3 in cluster R

ICR: Relative:

Date Ecology Received Report: 03/11/92 Higher

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

652 ft. Waste Management: Tank Central

> Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 92-21 County Code:

Contact: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

BURLINGTON NORTHERN RAILROAD (Continued)

S104486125

1007073193

N/A

CSCSL

HSL

ALLSITES

EDR ID Number

Report Title: Not reported

Date Ecology Received Report: 06/23/93

Contaminants Found at Site: Petroleum products

Media Contaminated: Soil
Waste Management: Tank
Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 93-03 County Code: 4

Contact: Not reported Report Title: Not reported

R65 BNSF WENATCHEE RAILYARD FINDS

SSE 409 S COLUMBIA 1/4-1/2 WENATCHEE, WA 98801

0.473 mi.

2497 ft. Site 2 of 3 in cluster R

Relative: FINDS:

Higher

Registry ID: 110015498264

Actual: 652 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: 28673212
Facility Type: Not reported
Region: Central
Ecology Status Code: 2

Entered Date: 1/25/2006 Updated Date: 6/30/2009 Brownfield Status: 0 Rank Status: 5

PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.419571
Longitude: -120.307293

Lat/Long: 47.419571 / -120.307293 Lat/Long (dms): 47.25 10.456 / -120 18 26.255

Media Status Desc: 1/25/2006
Affected Media: Soil
Affected Media Status: Confirmed
Pesticides: Not reported
Petroleum Products: Confirmed
Phenolic Compounds: Not reported
Reactive Wastes: Not reported

Direction Distance Elevation

tion Site Database(s) EPA ID Number

BNSF WENATCHEE RAILYARD (Continued)

1007073193

EDR ID Number

Corrosive Wastes: Not reported Radioactive Wastes: Not reported Not reported Asbestos: CENTRAL Responsible Unit: Arsenic Code: Not reported MTBE Code: Not reported Not reported UXO Code: 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): Ranked, Awaiting RA

Facility ID: 28673212
Facility Type: Not reported
Region: Central
Ecology Status Code: 2
Entered Date: 1/25/2006

Updated Date: 6/30/2009 Brownfield Status: 0 Rank Status: 5

PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.419571
Longitude: -120.307293

Lat/Long: 47.419571 / -120.307293 Lat/Long (dms): 47.25 10.456 / -120 18 26.255

Media Status Desc: 8/15/2007 Affected Media: Groundwater Affected Media Status: Confirmed Not reported Pesticides: Petroleum Products: Confirmed Phenolic Compounds: Not reported Not reported Reactive Wastes: Corrosive Wastes: Not reported Radioactive Wastes: Not reported Not reported Asbestos: Responsible Unit: **CENTRAL** 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 FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BNSF WENATCHEE RAILYARD (Continued)

1007073193

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): Ranked, Awaiting RA

ALLSITES:

Facility Id: 28673212

Latitude: 47.419570999999998

Longitude: -120.307293

Geographic location identifier (alias facid): 28673212

Facility Name: **BNSF WENATCHEE RAILYARD**

Latitude Decimal Degrees: 47.419570999999998

Longitude Decimal Degrees: -120.307293

Coordinate Point Areal Extent Code: Horizontal Accuracy Code: 13 Coordinate Point Geographic Position Code: 5 Location Verified Code:

Geographic Location Identifier (Alias Facid): 28673212 Interaction (Aka Env Int) Type Code: LUST Interaction (Aka Env Int) Description: **LUST Facility**

Interaction Status: Federal Program Indentifier: 9380 Interaction Start Date: 12/30/1991 Interaction End Date: Not reported Not reported prgm_facil: TOXICS cur_sys_pr: ISIS cur_sys_nm:

Geographic Location Identifier (Alias Facid): 28673212 Interaction (Aka Env Int) Type Code: INDPNDNT

Interaction (Aka Env Int) Description: Independent Cleanup

Interaction Status:

Federal Program Indentifier: Not reported Interaction Start Date: 12/30/1991 Interaction End Date: Not reported

BNSF WENATCHEE RAILYARD prgm_facil:

TOXICS cur_sys_pr: cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 28673212 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status: Federal Program Indentifier: 9380 Interaction Start Date: 1/7/2000 Interaction End Date: Not reported prgm_facil: Not reported cur_sys_pr: **TOXICS**

Direction Distance

Elevation Site Database(s) EPA ID Number

BNSF WENATCHEE RAILYARD (Continued)

1007073193

EDR ID Number

cur_sys_nm: ISIS

HSL:

edr_fstat: WA

edr_fzip: Not reported
edr_fcnty: CHELAN
edr_zip: Not reported

Facility Type: Hazardous Sites List Ranked, Awaiting RA

FSID Number: 28673212 Rank: 5 Region: CRO

R66 BNSF WENATCHEE RAILYARD LUST S105767080
SSE 409 S COLUMBIA ST N/A

1/4-1/2 WENATCHEE, WA 98801

0.473 mi.

2497 ft. Site 3 of 3 in cluster R

Relative: LUST:

 Higher
 edr_fstat:
 WA

 edr_fzip:
 98801

 Actual:
 edr_fcnty:
 CHELAN

 652 ft.
 edr_zip:
 98801-30

WENATCHEE, WA 98801

edr_fcnty: CHELAN
edr_zip: 98801-3031
FS ID: 28673212
Facility ID: 9380

Facility Status: Cleanup Started

Release ID: 430445 Affected Media: Soil Alternate Name: Not reported

Alternate Name: Not reported Release Notification Date: 12/30/1991 Release Status Date: 7/18/1996 Site Response Unit Code: CENTRAL

Lat/Long: 47.419571 / -120.307293

67 JACK W KELLER FINDS 1011266194 SSW 319 S CHELAN AVE FINDS N/A

1/4-1/2 0.487 mi. 2571 ft.

Relative: FINDS:

Higher

Registry ID: 110036138462

Actual: 708 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.

facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water

Quality Programs.

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

JACK W KELLER (Continued)

1011266194

1001819174

WAD050175884

RCRA-CESQG

FINDS

ALLSITES

ALLSITES:

Facility Id: 2854632 Latitude: 47.419629 Longitude: -120.310548

Geographic location identifier (alias facid): 2854632 Facility Name: Jack W Keller Latitude Decimal Degrees: 47.419629 -120.310548 Longitude Decimal Degrees:

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 99 Location Verified Code:

Geographic Location Identifier (Alias Facid): 2854632 Interaction (Aka Env Int) Type Code: **NONENFNL**

Interaction (Aka Env Int) Description: Non Enforcement Final

Interaction Status:

Federal Program Indentifier: Not reported Interaction Start Date: 11/7/2005 Interaction End Date: Not reported Not reported prgm_facil: **WATRES** cur_sys_pr: cur_sys_nm: **DMS**

S68 DICKS TOWING & REPAIR South 110 THURSTON

WENATCHEE, WA 98801 1/4-1/2 0.488 mi.

2579 ft. Site 1 of 3 in cluster S

RCRA-CESQG: Relative:

Date form received by agency: 01/15/2004 Higher **DICKS TOWING & REPAIR** Facility name:

Actual: Facility address: 110 THURSTON

674 ft. WENATCHEE, WA 98801

EPA ID: WAD050175884 Mailing address: PO BOX 35

WENATCHEE, WA 98807

CHRIS FIFE Contact: Contact address: PO BOX 35

WENATCHEE, WA 98807

Contact country: US

Contact telephone: (509)663-1623 Contact email: Not reported EPA Region: 10 Land type: Private

Conditionally Exempt Small Quantity Generator Classification:

Handler: generates 100 kg or less of hazardous waste per calendar Description:

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

Direction
Distance
Elevation

Site Database(s) EPA ID Number

DICKS TOWING & REPAIR (Continued)

1001819174

EDR ID Number

hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: CHRIS FIFE
Owner/operator address: PO BOX 35

WENATCHEE, WA 98807

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 08/05/1996 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

Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 12/31/2003

Facility name: DICKS TOWING & REPAIR Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 06/11/1999

Evaluation: COMPLIANCE ASSISTANCE VISIT

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

FINDS:

Registry ID: 110005321464

Environmental Interest/Information System

Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington

Direction Distance

Elevation Site Database(s) **EPA ID Number**

DICKS TOWING & REPAIR (Continued)

1001819174

EDR ID Number

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: 63838549

Latitude: 47.419730000000001 Longitude: -120.30786000000001 Geographic location identifier (alias facid):

Facility Name: Dicks Towing & Repair 47.419730000000001 Latitude Decimal Degrees: Longitude Decimal Degrees: -120.30786000000001

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 99 Location Verified Code: Ν

Geographic Location Identifier (Alias Facid): 63838549 Interaction (Aka Env Int) Type Code: **HWG**

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAD050175884 Interaction Start Date: 12/29/1986 Interaction End Date: 12/31/2003 prgm_facil: Not reported **HAZWASTE** cur_sys_pr: **TURBOWASTE** cur_sys_nm:

COLUMBIA PAINT & COATINGS WENATCHEE 69 NW **525 N WENATCHEE AVE**

1/4-1/2 WENATCHEE, WA 98801 0.489 mi.

2582 ft.

RCRA-NonGen: Relative:

Date form received by agency: 02/28/2000 Higher

COLUMBIA PAINT & COATINGS WENATCHEE Facility name:

Actual: Facility address: 525 N WENATCHEE AVE 658 ft.

WENATCHEE, WA 988012057

EPA ID: WA0000979658 Mailing address: PO BOX 4569

SPOKANE, WA 99202-0569

Contact: BRUCE ATKERSON

Contact address: PO BOX 4569

SPOKANE, WA 99202-0569

Contact country: US

(509)663-0525 Contact telephone:

1000982967

WA0000979658

RCRA-NonGen

FINDS

ALLSITES

Direction Distance

Elevation Site Database(s) EPA ID Number

COLUMBIA PAINT & COATINGS WENATCHEE (Continued)

1000982967

EDR ID Number

Contact email: Not reported 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: COLUMBIA PAINT & COATINGS CO

Owner/operator address: PO BOX 4569

SPOKANE, WA 99202

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 08/23/1996 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: Nο 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

Evaluation Action Summary:

Evaluation date: 04/12/1995

Evaluation: COMPLIANCE ASSISTANCE VISIT

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

FINDS:

Registry ID: 110005307943

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.

Direction Distance

Elevation Site Database(s) EPA ID Number

COLUMBIA PAINT & COATINGS WENATCHEE (Continued)

1000982967

EDR ID Number

ALLSITES:

Facility Id: 23936264 Latitude: 47.433 Longitude: -120.31833

Geographic location identifier (alias facid): 23936264

Facility Name: Columbia Paint & Coatings Wenatchee

Latitude Decimal Degrees: 47.433 Longitude Decimal Degrees: -120.31833 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): 23936264 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WA0000979658
Interaction Start Date: 12/14/1994
Interaction End Date: 12/31/1999
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

\$70 UNOCAL #4942 ICR \$104484920 \$
South 405 S. WENATCHEE N/A

1/4-1/2 0.491 mi.

2593 ft. Site 2 of 3 in cluster S

WENATCHEE, WA 98801

2000 11.

Relative: ICR:

Higher

Date Ecology Received Report: 03/16/98

Contaminants Found at Site: Petroleum products

Actual: 670 ft.

Media Contaminated: Soil
Waste Management: Tank
Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-02 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 12/28/98

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Waste Management: Tank
Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-11
County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 02/28/00

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Distance Elevation

Site Database(s) EPA ID Number

UNOCAL #4942 (Continued) \$104484920

Waste Management: Tank
Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-23 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 03/18/91

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Waste Management: Tank Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 92-02 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 02/22/96

Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank

Region: Tank

Central

Type of Report Ecology Received: Final cleanup report

Site Register Issue: 94-31 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 05/19/95

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Waste Management: Tank Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 94-31 County Code: 4

Contact: Not reported Report Title: Not reported

Date Ecology Received Report: 09/25/95

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Waste Management: Tank Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 94-31
County Code: 4
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 10/22/01

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Waste Management: Tank
Region: Central

EDR ID Number

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

UNOCAL #4942 (Continued) S104484920

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-41 County Code: 4

Contact: Not reported

Report Title: September 2001 Ground Water Monitoring

Date Ecology Received Report: 07/16/01

Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil

Waste Management: Tank Region: Central

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-38 County Code:

Contact: Not reported

Report Title: Soil Characterization for Waste Disposal

S71 UNOCAL SVS STA 4942 405 S WENATCHEE AVE South 1/4-1/2 WENATCHEE, WA 98801 0.491 mi.

CSCSL NFA UST **VCP**

FINDS

ALLSITES

1007081252

N/A

2593 ft. Site 3 of 3 in cluster S

FINDS: Relative:

Higher

110015579836 Registry ID:

Actual: 670 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.

ALLSITES:

Facility Id: 347

Latitude: 47.419509900000001 Longitude: -120.30707409999999 Geographic location identifier (alias facid): 347

Facility Name: Unocal Svs Sta 4942 Latitude Decimal Degrees: 47.419509900000001 Longitude Decimal Degrees: -120.30707409999999

Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code:

Coordinate Point Geographic Position Code: 99 Location Verified Code:

Geographic Location Identifier (Alias Facid): 347 Interaction (Aka Env Int) Type Code: LUST Interaction (Aka Env Int) Description: **LUST Facility**

Interaction Status: Federal Program Indentifier: 8520 Interaction Start Date: 4/24/1990 Interaction End Date: 4/26/2005 Not reported prgm_facil:

Direction Distance

Elevation Site Database(s) EPA ID Number

UNOCAL SVS STA 4942 (Continued)

1007081252

EDR ID Number

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 347
Interaction (Aka Env Int) Type Code: SCS

Interaction (Aka Env Int) Description: State Cleanup Site

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

Not reported
3/28/1991

12/13/2002

prgm_facil: Unocal Svs Sta 4942

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 347 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 8520
Interaction Start Date: 1/27/2000
Interaction End Date: 8/25/2003
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 347
Interaction (Aka Env Int) Type Code: VOLCLNST

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status:

Federal Program Indentifier: CE0156
Interaction Start Date: 12/13/2002
Interaction End Date: 1/7/2003

prgm_facil: Unocal Svs Sta 4942

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 347
Interaction (Aka Env Int) Type Code: VOLCLNST

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status:

Federal Program Indentifier: CE0190
Interaction Start Date: 2/26/2004
Interaction End Date: 4/26/2005

prgm_facil: Unocal Svs Sta 4942

cur_sys_pr: TOXICS
cur_sys_nm: ISIS

CSCSL NFA:

Facility/Site Id: 347

NFA Type: Removed from Hazardous Sites List (HSL)

NFA Date: 4/26/2005

Rank: 2

Alternate Name: 4942 UST 8520, UNOCAL 4942, UNOCAL SERVICE STATION #4942,

VCP:

Distance

Elevation Site Database(s) EPA ID Number

UNOCAL SVS STA 4942 (Continued)

1007081252

EDR ID Number

UST:

 Facility ID:
 347

 Site ID:
 8520

 Lat Deg:
 47

 Lat Min:
 25

Lat Sec: 10.2356400000048

Long Deg: -120 Long Min: 18

 Long Sec:
 25.4667599999789

 UBI:
 Not reported

 Phone Number:
 5096621098

Tank ID: 41804 Tank Name: 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:

Tank Material: Fiberglass Reinforced Plastic

Not reported

Single Wall Tank Tank Construction: Tank Tightness Test: Not reported Tank Corrosion Protection: 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 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

 Tank ID:
 41876

 Tank Name:
 4

 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: Fiberglass Reinforced Plastic

Tank Construction: Single Wall Tank Tank Tightness Test: Not reported

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

UNOCAL SVS STA 4942 (Continued)

1007081252

EDR ID Number

Tank Corrosion Protection: Not reported Fiberglass Pipe Material: 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

Tank ID: 41940 Tank Name:

12/31/1964 Install Date: Not reported Capacity: 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 Not reported Tank Overfill Prevention:

Tank Material: Fiberglass Reinforced Plastic

Tank Construction: Single Wall Tank Tank Tightness Test: Not reported Tank Corrosion Protection: Not reported Pipe Material: Fiberglass Pipe Construction: Not reported Pipe Primary Release Detection: Not reported Pipe Second Release Detection: Not reported Not reported Pipe Corrosion Protection: 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

VCP:

edr_fstat: WA 98801 edr_fzip: edr_fcnty: CHELAN 98801-3065 edr_zip: Facility ID: 347

VCP Status: Not reported

VCP:

Ecology Status: Not reported

NFA Type: Removed from Hazardous Sites List (HSL)

Date NFA: 4/26/2005

Rank: 2

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

72 WENATCHEE SUBSTATION RCRA-NonGen 1001121606 SSE **514 WORTHEN ST** FINDS WAR000010280

1/4-1/2 0.499 mi. 2634 ft.

RCRA-NonGen: Relative:

Date form received by agency: 05/01/2003 Lower

WENATCHEE, WA 98801

Facility name: WENATCHEE SUBSTATION Facility address:

Actual: 633 ft.

514 WORTHEN ST WENATCHEE, WA 98801

WAR000010280

EPA ID: Mailing address: PO BOX 1231

WENATCHEE, WA 98807-1231

Contact: JENNIFER BURNS Contact address: PO BOX 1231

WENATCHEE, WA 98807-1231

Contact country: US

Contact telephone: (509)663-8121 Contact email: Not reported EPA Region: 10 Land type: Private

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

CHELAN CNTY PUD NO 1 Owner/operator name:

Owner/operator address: PO BOX 1231

WENATCHEE, WA 98807

Owner/operator country: US

Not reported Owner/operator telephone: Private Legal status: Owner/Operator Type: Owner Owner/Op start date: 11/18/1996 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: Nο 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: Nο Used oil transporter: No

Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 06/23/1999 **ALLSITES**

Direction Distance

Elevation Site Database(s) EPA ID Number

WENATCHEE SUBSTATION (Continued)

1001121606

EDR ID Number

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110005405775

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:

Facility Id: 28888563

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): 28888563 Interaction (Aka Env Int) Type Code: HWG

Interaction (Aka Env Int) Description: Hazardous Waste Generator

Interaction Status:

Federal Program Indentifier: WAR000010280
Interaction Start Date: 7/31/1996
Interaction End Date: 12/31/2002
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

WENATCHEE VALLEY GAS AND ELECTRIC CO

Manufactured Gas Plants 1008408715

N/A

SSE SPOKANE STREET
1/2-1 WENATCHEE, WA 98801

0.591 mi. 3123 ft.

73

Relative: Manufactured Gas Plants:

Higher Alternate Name: PUGET POWER AND LIGHT.

Actual: 653 ft.

Direction Distance

Elevation Site Database(s) EPA ID Number

74 LEE ELEMENTARY SCHOOL FINDS 1007077147

East 1455 N BAKER AVE HSL N/A
1/2-1 EAST WENATCHEE, WA 98802 ALLSITES

 1/2-1
 EAST WENATCHEE, WA 98802
 ALLSITES

 0.752 mi.
 CSCSL NFA

 3972 ft.
 INST CONTROL

Relative: FINDS:

Higher

Registry ID: 110015538177

Actual: 781 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.

NCES (National Center for Education Statistics) is the primary federal entity for collecting and analyzing data related to education in the United States and other nations and the institute of education

sciences.

HSL:

edr_fstat: WA

edr_fzip: Not reported edr_fcnty: DOUGLAS edr_zip: 98802-4336

Facility Type: SITES REMOVED FROM THE HAZARDOUS SITES LIST

Facility Status: Not reported 7763612 Rank: 5

Region: Not reported

ALLSITES:

Facility Id: 7763612

Latitude: 47.424171470170698
Longitude: -120.287086302074
Geographic location identifier (alias facid): 7763612

Facility Name: Lee Elementary School Latitude Decimal Degrees: 47.424171470200001 Longitude Decimal Degrees: -120.28708630200001

Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 13
Coordinate Point Geographic Position Code: 8

Location Verified Code: Not reported

Geographic Location Identifier (Alias Facid): 7763612 Interaction (Aka Env Int) Type Code: SCS

Interaction (Aka Env Int) Description: State Cleanup Site

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

Not reported
1/14/2003
2/16/2010

prgm_facil: Lee Elementary School

cur_sys_pr: TOXICS
cur_sys_nm: ISIS

EDR ID Number

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

LEE ELEMENTARY SCHOOL (Continued)

1007077147

EDR ID Number

CSCSL NFA:

Facility/Site Id: 7763612

NFA Type: Removed from HSL, Restrict Cov, InstitutnI Cntrls

NFA Date: 2/16/2010

Rank:

Alternate Name: Not reported VCP: Not reported

INST CONTROL:

Facility Site ID: 7763612

Decision Type: CRO - Areawide Cleanup Document Type: Restrictive Covenant

County Filing # For Individual IC Doc: 3141429 Filing Date Of Individual IC Doc: 2/16/2010 Status: Active Status Date: 2/22/2010 Anchorage Restrictions: No **Drinking Water Restrictions:** No **Education Programs:** No Financial Assurance: No Finfish Harvesting Restrictions: No Groundwater Restriction: No Maintenance Requirements: Yes No Dredge Zone: No No Wake Zone: Nο **Physical Measures:** Yes Property Use Restriction: Yes Restrictive Signage: No Shellfish Harvesting Restrictions: No Soil Restriction: Yes Surface Water Restriction: No Swimming Restriction: No Vessel Draft Restriction: No

75 **ORCHARD MIDDLE SCHOOL** West **1024 ORCHARD AVE** 1/2-1 WENATCHEE, WA 98801

HSL **ALLSITES CSCSL NFA INST CONTROL**

FINDS

1007079857

N/A

FINDS: Relative:

Higher

4222 ft.

0.800 mi.

Registry ID:

Actual:

110015565743

755 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.

US Geographic Names Information System (GNIS) is the official vehicle for geographic names used by the federal government and the source for applying geographic names to federal maps and other printed and electronic documents.

Direction Distance

Elevation Site Database(s) EPA ID Number

ORCHARD MIDDLE SCHOOL (Continued)

1007079857

EDR ID Number

NCES (National Center for Education Statistics) is the primary federal entity for collecting and analyzing data related to education in the United States and other nations and the institute of education sciences.

HSL:

edr_fstat: WA

edr_fzip: Not reported edr_fcnty: CHELAN edr_zip: 98801-1945

Facility Type: SITES REMOVED FROM THE HAZARDOUS SITES LIST

Facility Status: Not reported FSID Number: 771247 Rank: 3

Region: Not reported

ALLSITES:

Facility Id: 771247

Latitude: 47.426791542838401 Longitude: -120.327577049759 Geographic location identifier (alias facid): 771247

Facility Name: Orchard Middle School Latitude Decimal Degrees: 47.426791542799997

Longitude Decimal Degrees: -120.32757705

Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 12
Coordinate Point Geographic Position Code: 8
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 771247 Interaction (Aka Env Int) Type Code: SCS

Interaction (Aka Env Int) Description: State Cleanup Site

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Interaction End Date:

Not reported
1/14/2003
2/12/2010

prgm_facil: Orchard Middle School

cur_sys_pr: TOXICS
cur_sys_nm: ISIS

CSCSL NFA:

Facility/Site Id: 771247

NFA Type: Removed from HSL, Restrict Cov, InstitutnI Cntrls

NFA Date: 2/12/2010 Rank: 3

Alternate Name: Not reported VCP: Not reported

INST CONTROL:

Facility Site ID: 771247

Decision Type: CRO - Areawide Cleanup
Document Type: Restrictive Covenant

County Filing # For Individual IC Doc: 2319623

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ORCHARD MIDDLE SCHOOL (Continued)

1007079857

Filing Date Of Individual IC Doc: 2/24/2010 Status: Active 3/2/2010 Status Date: Anchorage Restrictions: No **Drinking Water Restrictions:** No **Education Programs:** No Financial Assurance: No Finfish Harvesting Restrictions: Nο Groundwater Restriction: No Maintenance Requirements: Yes No Dredge Zone: No No Wake Zone: No Physical Measures: Yes Property Use Restriction: No Restrictive Signage: No Shellfish Harvesting Restrictions: No Soil Restriction: Yes Surface Water Restriction: No Swimming Restriction: No Vessel Draft Restriction: No

76 **VAN WELL NURSERY** NW 1000 N MILLER ST 1/2-1 WENATCHEE, WA 98801

U003604958 **CSCSL ALLSITES** N/A UST **ICR**

0.966 mi. 5102 ft.

CSCSL: Relative:

32896553 Facility ID: Higher Facility Type: Independent Actual: Region: Central 691 ft. Ecology Status Code:

Entered Date: 12/20/2001 Updated Date: 3/17/2010 **Brownfield Status:** 0

Rank Status:

PSI Status: Not reported Clean Method: Not reported Not reported Drinking Water Type: Not reported Cleanup Standard: Acres Remediated: Not reported Latitude: 47.436515 Longitude: -120.324794

47.436515 / -120.324794 Lat/Long: 47 26 11.454 / -120 19 29.258 Lat/Long (dms):

Media Status Desc: 1/1/0001 Affected Media: Soil Affected Media Status: Confirmed Pesticides: Not reported Petroleum Products: Not reported Phenolic Compounds: Not reported Not reported Reactive Wastes: Corrosive Wastes: Not reported Radioactive Wastes: Not reported Asbestos: Not reported **CENTRAL** Responsible Unit: Confirmed Arsenic Code: MTBE Code: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

VAN WELL NURSERY (Continued)

U003604958

EDR ID Number

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): 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): Ranked, Awaiting RA

ALLSITES:

Facility Id: 32896553 Latitude: 47.436515 Longitude: -120.324794

Geographic location identifier (alias facid): 32896553

Facility Name: VAN WELL NURSERY

Latitude Decimal Degrees: 47.436515 Longitude Decimal Degrees: -120.324794

Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 13
Coordinate Point Geographic Position Code: 5
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 32896553 Interaction (Aka Env Int) Type Code: UST

Interaction (Aka Env Int) Description: Underground Storage Tank

Interaction Status:

Federal Program Indentifier: 502913
Interaction Start Date: 2/8/2000
Interaction End Date: 5/11/2006
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 32896553 Interaction (Aka Env Int) Type Code: SCS

Interaction (Aka Env Int) Description: State Cleanup Site

Interaction Status:

Federal Program Indentifier:

Interaction Start Date:

Not reported 11/6/2009

Interaction End Date:

Not reported

prgm_facil: VAN WELL NURSERY

cur_sys_pr: TOXICS cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 32896553 Interaction (Aka Env Int) Type Code: INDPNDNT

Interaction (Aka Env Int) Description: Independent Cleanup

Interaction Status:

Federal Program Indentifier: Not reported

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

VAN WELL NURSERY (Continued)

U003604958

Interaction Start Date: 5/11/2006 Interaction End Date: 3/16/2010

prgm_facil: VAN WELL NURSERY

TOXICS cur_sys_pr: cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 32896553 Interaction (Aka Env Int) Type Code: **VOLCLNST**

Interaction (Aka Env Int) Description: Voluntary Cleanup Sites

Interaction Status:

Federal Program Indentifier: CE0120 Interaction Start Date: 12/20/2001 Interaction End Date: 5/11/2006

prgm_facil: VAN WELL NURSERY

cur_sys_pr: **TOXICS** cur_sys_nm: ISIS

UST:

32896553 Facility ID: Site ID: 502913 Lat Deg: 47 Lat Min: 26 Lat Sec: 11.454 Long Deg: -120 19 Long Min:

Long Sec: 29.2583999999897 UBI: Not reported Phone Number: Not reported

Tank ID: 502918 Tank Name: 1 Install Date: 1/1/1964 Capacity: Not reported Tank Upgrade Date: 1/1/0001 TankSystem Status: Removed TankSystem Status Change Date:6/24/1999 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 Not reported Tank Construction: Not reported Tank Tightness Test: Tank Corrosion Protection: Not reported Not reported Pipe Material: Not reported Pipe Construction: 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: 12/10/1999 Tag Number: Not reported

Map ID MAP FINDINGS Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

VAN WELL NURSERY (Continued)

U003604958

ICR:

Date Ecology Received Report: 12/20/01

Contaminants Found at Site: Metals, Pesticides

Media Contaminated: Soil

Waste Management: Not reported Central Region:

Type of Report Ecology Received: Interim cleanup report

Site Register Issue: 98-44 County Code: 4

Contact: Not reported

Limited Phase II Environmental Site Assessment Report Title:

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip Database(s)
WENATCHEE	1000348403	JR SIMPLOT CO WENATCHEE PLT	315 WORTHEN ST	98801 FINDS, UST, ALLSITES, RCRA-NLR
WENATCHEE	1000376198	WENATCHEE TRUCK REPAIR	3615 CHELAN HWY NO B	98801 FINDS, RCRA-NLR, ALLSITES
WENATCHEE	1001806381	ART NORDANG TRUCKING INC	3748 CHELAN HWY	98801 FINDS, RCRA-NLR, MANIFEST, ALLSIT
WENATCHEE	1003880400	CHELAN CO WORTHEN ST LDFL	WORTHEN ST N OF ORONDO	98801 CERCLIS-NFRAP
WENATCHEE	1005445131	CENTRAL WA EQUIPMENT INC	4020 N CHELAN HWY	98801 FINDS, ALLSITES, RCRA-LQG
WENATCHEE	1006884678	WENATCHEE LANDFILL	25 WORTHEN STREET	98801 BROWNFIELDS
WENATCHEE	1007066678	ROCKY REACH DAM BOAT DOCKS	HWY 97 / ROCKY REACH DAM	98801 FINDS, UST, ALLSITES
WENATCHEE	1007068910	WELLS & WADE FRUIT CO COLUMBIA ST	1 W ORONDO ST	98801 FINDS, ALLSITES
EAST WENATCHEE	1007071373	BJS LINCOLN ROCK	RTE 3 BOX 3113BB	98802 FINDS, ALLSITES, UST
EAST WENATCHEE	1007071553	SPRINT COMMUNICATIONS CO E WENATCH	203 S 32ND ST / CASCADE AVE	98801 FINDS, ALLSITES
WENATCHEE	1007073918	AMERIGAS WENATCHEE	4261 CHELAN HWY	FINDS, ALL SITES
WENATCHEE	1007074148	WENATCHEE CITY LINCOLN ROCK	LINCOLN ROCK STATE PK	98801 FINDS,ALLSITES
WENATCHEE	1008028156	WENATCHEE, CITY OF	P.O. BOX 519	98807 FINDS
ROCK ISLAND	1010568460	WSU TREEFRUIT RESEARCH & EXTENSION	HWY 28 CORNER & SUNSET RD	98802 RCRA-NLR
WENATCHEE	1010788479	FAUBION FAMILY LLC	310 S WORTHEN	98807 RCRA-LQG
WENATCHEE	1011445079	COCA COLA BOTTLING OF WENATCHEE	3400 FIFTH STREET SE	99880 FINDS
EAST WENATCHEE	1012073931	WENATCHEE REGIONAL WATER SUPPLY SY	5100 SUNSET HIGHWAY	98802 FINDS
WENATCHEE	1012113494	WENATCHEE ORCHARD	700 MISSION ST S	98801 FINDS
WENATCHEE	1012131020	SMITHS AUTO WRECKING WENATCHEE	3518 STATE HIGHWAY 97A	98801 FINDS
WENATCHEE	1012227715	WENATCHEE ROCK PRODUCTS ROCKY REAC	7514 HWY 97 A	98801 FINDS
EAST WENATCHEE	1012256171	EAST WENATCHEE STP	1050 SUNSET HWY	98802 FINDS
WENATCHEE	1012314435	CELLCO - DT WENATCHEE	420 4TH STREET	98802 FINDS
	M300005729	CENTRAL WASHINGTON CONCRETE, INC.	ORONDO PIT	MINES
EAST WENATCHEE	S102363824	WA WSU SMITH TRACT	HWY 2	98801 CSCSL NFA, VCP, ALLSITES
WENATCHEE	S103505874	ROCKY REACH DAM	HWY 97 AT ROCKY REACH DAM	98801 ICR
WENATCHEE	\$103506583	COLUMBIA COLSTORE	315 WORTHEN ST.	98801 ICR
WENATCHEE	S103512225	CHELAN MAINTENANCE SHOP	HWY 97A	98801 ICR
WENATCHEE	S104917902	AMERICAN TRANSPORT TANKER SPILL	HWY 97 AT MP 183.7	98801 CSCSL NFA, VCP, ALLSITES
OLDS STATION	S106779696	PACIFIC RIM LAND	3537 CHELAN HWY	98801 CSCSL NFA,ALLSITES
WENATCHEE	S106878978	WA ECY N WENATCHEE DRY CLN CHEM	HWY 97A .25 MI N OF MP 202 W S	98801 INACTIVE DRYCLEANERS
WENATCHEE	S109553747	WA ECY N WENATCHEE DRY CLN CHEM	HWY 97A .25 MI N OF MP 202 W S	98801 ALLSITES
WENATCHEE	S110037734	WENATCHEE ROCK PRODUCTS ROCKY REAC	7514 HWY 97 A	98801 ALLSITES
WENATCHEE	U000920173	SICKLER SUBSTATION	RTE 3 BOX 3151E	UST,ALLSITES

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: 07/02/2010 Source: EPA
Date Data Arrived at EDR: 07/14/2010 Telephone: N/A

Date Made Active in Reports: 10/04/2010 Last EDR Contact: 10/13/2010

Number of Days to Update: 82 Next Scheduled EDR Contact: 01/24/2011
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 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: 07/02/2010 Source: EPA
Date Data Arrived at EDR: 07/14/2010 Telephone: N/A

Date Made Active in Reports: 10/04/2010 Last EDR Contact: 10/13/2010

Number of Days to Update: 82 Next Scheduled EDR Contact: 01/24/2011
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.

Source: EPA

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Telephone: 202-564-4267 Last EDR Contact: 08/16/2010

Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: No Update Planned

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: 07/02/2010 Date Data Arrived at EDR: 07/14/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 82

Source: EPA Telephone: N/A

Last EDR Contact: 10/13/2010

Next Scheduled EDR Contact: 01/24/2011 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: 01/29/2010 Date Data Arrived at EDR: 02/09/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 62

Source: EPA Telephone: 703-412-9810

Last EDR Contact: 10/01/2010

Next Scheduled EDR Contact: 01/10/2011 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 EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 06/23/2009 Date Data Arrived at EDR: 01/15/2010 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 26

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 10/13/2010

Next Scheduled EDR Contact: 01/24/2011 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: 06/23/2009 Date Data Arrived at EDR: 09/02/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 19

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 10/01/2010

Next Scheduled EDR Contact: 12/13/2010 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 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: 08/16/2010

Next Scheduled EDR Contact: 11/29/2010 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: 10/07/2010

Next Scheduled EDR Contact: 01/17/2011 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: 10/07/2010 Next Scheduled EDR Contact: 01/17/2011

Next Scheduled EDR Contact: 01/17/2
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: 10/07/2010

Next Scheduled EDR Contact: 01/17/2011 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: 10/07/2010

Next Scheduled EDR Contact: 01/17/2011 Data Release Frequency: Varies

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: 12/20/2009 Date Data Arrived at EDR: 01/20/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 09/13/2010

Next Scheduled EDR Contact: 12/27/2010 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: 12/20/2009 Date Data Arrived at EDR: 01/20/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 09/13/2010

Next Scheduled EDR Contact: 12/27/2010 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: 07/09/2010 Date Data Arrived at EDR: 07/09/2010 Date Made Active in Reports: 08/17/2010

Number of Days to Update: 39

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 10/06/2010

Next Scheduled EDR Contact: 01/17/2011 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: 02/17/2010 Date Data Arrived at EDR: 02/19/2010 Date Made Active in Reports: 02/24/2010

Number of Days to Update: 5

Source: Department of Ecology Telephone: 360-407-7200 Last EDR Contact: 09/17/2010

Next Scheduled EDR Contact: 12/29/2010 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: 07/27/2010 Date Data Arrived at EDR: 07/28/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 56

Source: Department of Ecology Telephone: 360-407-7200 Last EDR Contact: 07/28/2010

Next Scheduled EDR Contact: 11/08/2010 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: 06/15/2010 Date Data Arrived at EDR: 06/16/2010 Date Made Active in Reports: 07/15/2010

Number of Days to Update: 29

Source: Department of Ecology Telephone: 360-407-6132 Last EDR Contact: 09/13/2010

Next Scheduled EDR Contact: 12/27/2010 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: 08/24/2010 Date Data Arrived at EDR: 08/25/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 28

Source: Department of Ecology Telephone: 360-407-7183 Last EDR Contact: 08/25/2010

Next Scheduled EDR Contact: 12/06/2010 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: 08/30/2010 Date Data Arrived at EDR: 08/30/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 35

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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 Date Data Arrived at EDR: 08/30/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 35

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 08/05/2010 Date Data Arrived at EDR: 08/06/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 59

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 02/19/2009 Date Data Arrived at EDR: 02/19/2009 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 25

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 08/05/2010 Date Data Arrived at EDR: 08/06/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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 Date Data Arrived at EDR: 05/04/2010 Date Made Active in Reports: 07/07/2010

Number of Days to Update: 64

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/11/2010

Next Scheduled EDR Contact: 11/15/2010 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: 05/24/2010 Date Data Arrived at EDR: 05/27/2010 Date Made Active in Reports: 08/09/2010

Number of Days to Update: 74

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 08/24/2010 Date Data Arrived at EDR: 08/25/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 28

Source: Department of Ecology Telephone: 360-407-7183 Last EDR Contact: 08/25/2010

Next Scheduled EDR Contact: 12/06/2010 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 Date Data Arrived at EDR: 05/28/2009 Date Made Active in Reports: 06/19/2009

Number of Days to Update: 22

Source: Department of Ecology Telephone: 360-407-7562 Last EDR Contact: 08/09/2010

Next Scheduled EDR Contact: 11/22/2010 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 Date Data Arrived at EDR: 08/30/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 35

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 Data Release Frequency: Semi-Annually

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: 08/30/2010 Date Data Arrived at EDR: 08/30/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 35

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 05/24/2010 Date Data Arrived at EDR: 05/27/2010 Date Made Active in Reports: 08/09/2010

Number of Days to Update: 74

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 08/05/2010 Date Data Arrived at EDR: 08/06/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 59

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 02/19/2009 Date Data Arrived at EDR: 02/19/2009 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 25

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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 Date Data Arrived at EDR: 02/11/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 60

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 08/03/2010 Date Data Arrived at EDR: 08/04/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 61

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 04/01/2008 Date Data Arrived at EDR: 12/30/2008 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 76

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/11/2010

Next Scheduled EDR Contact: 11/15/2010 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 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 07/19/2010

Next Scheduled EDR Contact: 11/01/2010 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: 08/17/2010 Date Data Arrived at EDR: 08/18/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 35

Source: Department of Ecology Telephone: 360-407-7170 Last EDR Contact: 08/18/2010

Next Scheduled EDR Contact: 11/29/2010 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: 04/02/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 10/04/2010

Next Scheduled EDR Contact: 01/17/2011 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: 07/27/2010 Date Data Arrived at EDR: 08/19/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 34

Source: Department of Ecology Telephone: 360-407-7200 Last EDR Contact: 07/27/2010

Next Scheduled EDR Contact: 11/08/2010 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

ICR: Independent Cleanup Reports

These are remedial action reports Ecology has received from either the owner or operator of the sites. These actions have been conducted without department oversight or approval and are not under an order or decree. This database is no longer updated by the Department of Ecology.

Date of Government Version: 12/01/2002 Date Data Arrived at EDR: 01/03/2003 Date Made Active in Reports: 01/22/2003

Number of Days to Update: 19

Source: Department of Ecology Telephone: 360-407-7200 Last EDR Contact: 08/10/2009

Next Scheduled EDR Contact: 11/09/2009 Data Release Frequency: No Update Planned

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites Listing

A listing of brownfields sites included in the Confirmed & Suspected Sites Listing. Brownfields are abandoned, idle or underused commercial or industrial properties, where the expansion or redevelopment is hindered by real or perceived contamination. Brownfields vary in size, location, age, and past use -- they can be anything from a five-hundred acre automobile assembly plant to a small, abandoned corner gas station.

Date of Government Version: 07/27/2010 Date Data Arrived at EDR: 07/28/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 56

Source: Department of Ecology Telephone: 360-725-4030 Last EDR Contact: 07/28/2010

Next Scheduled EDR Contact: 11/08/2010 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 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: 06/24/2010 Date Data Arrived at EDR: 06/25/2010 Date Made Active in Reports: 08/17/2010 Number of Days to Update: 53 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 09/29/2010

Next Scheduled EDR Contact: 01/10/2011 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: 09/27/2010

Next Scheduled EDR Contact: 01/10/2011 Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

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

Telephone: N/A Last EDR Contact: 09/23/2010

Source: Department of Ecology

Next Scheduled EDR Contact: 12/27/2010 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: 09/07/2010

Next Scheduled EDR Contact: 11/22/2010 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: 05/07/2010 Date Data Arrived at EDR: 06/18/2010 Date Made Active in Reports: 08/17/2010

Number of Days to Update: 60

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 09/17/2010

Next Scheduled EDR Contact: 12/20/2010 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: 08/10/2010 Date Data Arrived at EDR: 08/12/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 41

Source: Department of Ecology Telephone: 360-407-6423 Last EDR Contact: 08/10/2010

Next Scheduled EDR Contact: 11/22/2010 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.

Date of Government Version: 07/27/2010 Date Data Arrived at EDR: 07/28/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 56

Source: Department of Ecology Telephone: 360-407-7170 Last EDR Contact: 07/28/2010

Next Scheduled EDR Contact: 11/08/2010 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: 08/16/2010

Next Scheduled EDR Contact: 11/29/2010 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: 05/06/2010 Date Data Arrived at EDR: 05/11/2010 Date Made Active in Reports: 08/09/2010

Number of Days to Update: 90

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 08/02/2010

Next Scheduled EDR Contact: 11/15/2010 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: 09/08/2010

Next Scheduled EDR Contact: 12/06/2010 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: 04/06/2010 Date Data Arrived at EDR: 04/07/2010 Date Made Active in Reports: 05/27/2010

Number of Days to Update: 50

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 10/07/2010

Next Scheduled EDR Contact: 01/17/2011 Data Release Frequency: Annually

SPILLS: Reported Spills

Spills reported to the Spill Prevention, Preparedness and Response Division.

Date of Government Version: 06/25/2010 Date Data Arrived at EDR: 06/25/2010 Date Made Active in Reports: 07/15/2010

Number of Days to Update: 20

Source: Department of Ecology Telephone: 360-407-6950 Last EDR Contact: 09/13/2010

Next Scheduled EDR Contact: 12/27/2010 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 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: 10/07/2010

Next Scheduled EDR Contact: 01/17/2011 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2010 Date Data Arrived at EDR: 02/09/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 62

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 08/11/2010

Next Scheduled EDR Contact: 11/22/2010 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: 703-692-8801 Last EDR Contact: 07/22/2010

Next Scheduled EDR Contact: 11/01/2010 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: 12/31/2008 Date Data Arrived at EDR: 09/30/2009 Date Made Active in Reports: 12/01/2009

Number of Days to Update: 62

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 09/14/2010

Next Scheduled EDR Contact: 12/27/2010 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: 04/11/2010 Date Data Arrived at EDR: 04/19/2010 Date Made Active in Reports: 05/17/2010

Number of Days to Update: 28

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 10/04/2010

Next Scheduled EDR Contact: 01/17/2011 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: 06/01/2010 Date Data Arrived at EDR: 06/16/2010 Date Made Active in Reports: 08/17/2010

Number of Days to Update: 62

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 09/15/2010

Next Scheduled EDR Contact: 12/27/2010 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: 12/14/2009 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 10/04/2010

Number of Days to Update: 5

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 09/01/2010

Next Scheduled EDR Contact: 12/13/2010 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: 05/07/2010 Date Data Arrived at EDR: 06/09/2010 Date Made Active in Reports: 08/30/2010

Number of Days to Update: 82

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 09/09/2010

Next Scheduled EDR Contact: 12/20/2010 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: 12/31/2008 Date Data Arrived at EDR: 01/13/2010 Date Made Active in Reports: 02/18/2010

Number of Days to Update: 36

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 09/01/2010

Next Scheduled EDR Contact: 12/13/2010 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: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006

Number of Days to Update: 46

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 10/01/2010

Next Scheduled EDR Contact: 01/10/2011 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: 08/30/2010

Next Scheduled EDR Contact: 12/13/2010 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: 08/30/2010

Next Scheduled EDR Contact: 12/13/2010 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: 12/31/2008 Date Data Arrived at EDR: 01/06/2010 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 08/16/2010

Next Scheduled EDR Contact: 11/15/2010 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: 04/24/2010 Date Data Arrived at EDR: 04/29/2010 Date Made Active in Reports: 05/17/2010

Number of Days to Update: 18

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 09/27/2010

Next Scheduled EDR Contact: 01/10/2011 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: 02/01/2010 Date Data Arrived at EDR: 04/22/2010 Date Made Active in Reports: 08/09/2010

Number of Days to Update: 109

Source: EPA Telephone: 2

Telephone: 202-566-0500 Last EDR Contact: 07/30/2010

Next Scheduled EDR Contact: 11/01/2010 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 Date Data Arrived at EDR: 04/06/2010 Date Made Active in Reports: 05/27/2010

Number of Days to Update: 51

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 09/13/2010

Next Scheduled EDR Contact: 12/27/2010 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: 07/13/2010 Date Data Arrived at EDR: 07/14/2010 Date Made Active in Reports: 08/09/2010

Number of Days to Update: 26

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 07/14/2010

Next Scheduled EDR Contact: 10/25/2010 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 Date Data Arrived at EDR: 04/16/2010 Date Made Active in Reports: 05/27/2010

Number of Days to Update: 41

Source: EPA

Telephone: (206) 553-1200 Last EDR Contact: 09/15/2010

Next Scheduled EDR Contact: 12/27/2010 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

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: 08/24/2010

Next Scheduled EDR Contact: 12/06/2010 Data Release Frequency: Biennially

UIC: Underground Injection Wells Listing
A listing of underground injection wells.

Date of Government Version: 08/24/2010 Date Data Arrived at EDR: 08/25/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 28

Source: Department of Ecology Telephone: 360-407-6143 Last EDR Contact: 08/25/2010

Next Scheduled EDR Contact: 12/06/2010 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: 07/26/2010

Next Scheduled EDR Contact: 11/08/2010 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: 07/26/2010

Next Scheduled EDR Contact: 11/08/2010 Data Release Frequency: Varies

NPDES: Water Quality Permit System Data
A listing of permitted wastewater facilities.

Date of Government Version: 08/02/2010 Date Data Arrived at EDR: 08/03/2010 Date Made Active in Reports: 09/22/2010

Number of Days to Update: 50

Source: Department of Ecology Telephone: 360-407-6073 Last EDR Contact: 07/27/2010

Next Scheduled EDR Contact: 11/08/2010 Data Release Frequency: Quarterly

AIRS (EMI): Washington Emissions Data System Emissions inventory data.

> Date of Government Version: 12/31/2008 Date Data Arrived at EDR: 01/05/2010 Date Made Active in Reports: 01/15/2010

Number of Days to Update: 10

Source: Department of Ecology Telephone: 360-407-6040 Last EDR Contact: 09/27/2010

Next Scheduled EDR Contact: 01/10/2011 Data Release Frequency: Annually

INACTIVE DRYCLEANERS: Inactive Drycleaners
A listing of inactive drycleaner facility locations.

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: 07/26/2010

Next Scheduled EDR Contact: 11/08/2010 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: 07/22/2010

Next Scheduled EDR Contact: 11/01/2010 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: 05/12/2010 Date Data Arrived at EDR: 05/13/2010 Date Made Active in Reports: 08/17/2010

Number of Days to Update: 96

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 08/23/2010

Next Scheduled EDR Contact: 11/08/2010 Data Release Frequency: Varies

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: 09/13/2010

Next Scheduled EDR Contact: 12/27/2010 Data Release Frequency: Varies

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 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: 07/21/2010

Next Scheduled EDR Contact: 11/01/2010 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: 11/09/2009 Date Data Arrived at EDR: 12/18/2009 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 09/15/2010

Next Scheduled EDR Contact: 12/27/2010 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: 08/10/2010

Next Scheduled EDR Contact: 11/15/2010 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: 07/22/2010 Next Scheduled EDR Contact: 11/01/2010

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.

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

COUNTY RECORDS

KING COUNTY:

Abandoned Landfill Study in King County

The King County Abandoned Landfill Survey was conducted from October through December 1984 by the Health Department's Environmental Health Division at the request of the King County Council. The primary objective of the survey was to determine if any public health problems existed at the predetermined 24 sites.

Date of Government Version: 04/30/1985 Date Data Arrived at EDR: 11/07/1994 Date Made Active in Reports: N/A Number of Days to Update: 0

Source: Seattle-King County Department of Public Health

Telephone: 206-296-4785 Last EDR Contact: 10/21/1994 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SEATTLE COUNTY:

Abandoned Landfill Study in the City of Seattle

The Seattle Abandoned Landfill Survey was conducted in June and July of 1984 by the Health Department's Environmental Health Division at the request of the Mayor's Office. The primary objective of the survey was to determine if any public health problems existed at the predetermined 12 sites.

Date of Government Version: 07/30/1984 Date Data Arrived at EDR: 11/07/1994 Date Made Active in Reports: N/A Number of Days to Update: 0 Source: Seattle - King County Department of Public Health

Telephone: 206-296-4785 Last EDR Contact: 10/21/1994 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SEATTLE/KING COUNTY:

Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project

This report presents the Seattle-King County Health Department's follow-up investigation of two city owned and four county owned abandoned landfills which was conducted from February to December 1986.

Date of Government Version: 12/31/1986 Date Data Arrived at EDR: 08/18/1995 Date Made Active in Reports: 09/20/1995 Number of Days to Update: 33 Source: Department of Public Health Telephone: 206-296-4785 Last EDR Contact: 08/14/1995 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SNOHOMISH COUNTY:

Solid Waste Sites of Record at Snohomish Health District

Solid waste disposal and/or utilization sites in Snohomish County.

Date of Government Version: 10/01/2008 Date Data Arrived at EDR: 01/30/2009 Date Made Active in Reports: 03/24/2009

Number of Days to Update: 53

Source: Snohomish Health District Telephone: 206-339-5250 Last EDR Contact: 10/07/2010

Next Scheduled EDR Contact: 01/10/2011 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

Data Release Frequency: No Update Planned

Next Scheduled EDR Contact: N/A

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/25/2010

Next Scheduled EDR Contact: 12/06/2010 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.

Date of Government Version: 07/28/2010 Date Data Arrived at EDR: 08/11/2010 Date Made Active in Reports: 09/24/2010

Number of Days to Update: 44

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 08/11/2010

Next Scheduled EDR Contact: 11/22/2010 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: 08/23/2010

Next Scheduled EDR Contact: 12/06/2010 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: 09/20/2010

Next Scheduled EDR Contact: 01/03/2011 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.

TC2892831.2s

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Daycare Center Listing

Source: Department of Social & Health Services

Telephone: 253-383-1735

Flood Zone Data: This data, 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

CITY OF WENATCHEE 25 N WORTHEN STREET WENATCHEE, WA 98801

TARGET PROPERTY COORDINATES

Latitude (North): 47.42670 - 47° 25' 36.1" Longitude (West): 120.3084 - 120° 18' 30.3"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 702995.7 UTM Y (Meters): 5255877.5

Elevation: 634 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 47120-D3 WENATCHEE, WA

Most Recent Revision: 1987

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.

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).

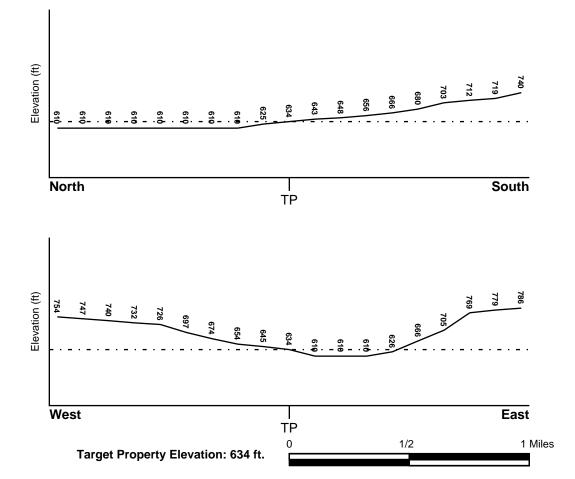
TOPOGRAPHIC INFORMATION

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 NE

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.

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

FEMA Flood

Target Property County CHELAN, WA

Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:

5300200005C - FEMA Q3 Flood data

Additional Panels in search area:

5300150625C - FEMA Q3 Flood data 5300360535A - FEMA Q3 Flood data 5300380001C - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property

NWI Electronic Data Coverage

WENATCHEE

YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

LOCATION GENERAL DIRECTION

MAP ID FROM TP GROUNDWATER FLOW

Not Reported

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

GEOLOGIC AGE IDENTIFICATION

Era: Cenozoic Category: Continental Deposits

System: Tertiary
Series: Paleocene

Code: Txc (decoded above as Era, System & Series)

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: BURCH

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to

water table is more than 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

	Soil Layer Information								
	Boundary			Classification					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)		
1	0 inches	8 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.60		
2	8 inches	60 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.60		

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: sandy loam

loam

gravelly - sandy loam gravelly - fine sandy loam

Surficial Soil Types: sandy loam

loam

gravelly - sandy loam gravelly - fine sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: very gravelly - loamy sand

loamy fine sand very cobbly - 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.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS3218872	1/2 - 1 Mile NNE
3	USGS3218871	1/2 - 1 Mile NNE
A4	USGS3218873	1/2 - 1 Mile North
A5	USGS3218874	1/2 - 1 Mile North
A6	USGS3218875	1/2 - 1 Mile NNE
7	USGS3219041	1/2 - 1 Mile SW
8	USGS3218870	1/2 - 1 Mile WNW
9	USGS3218876	1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

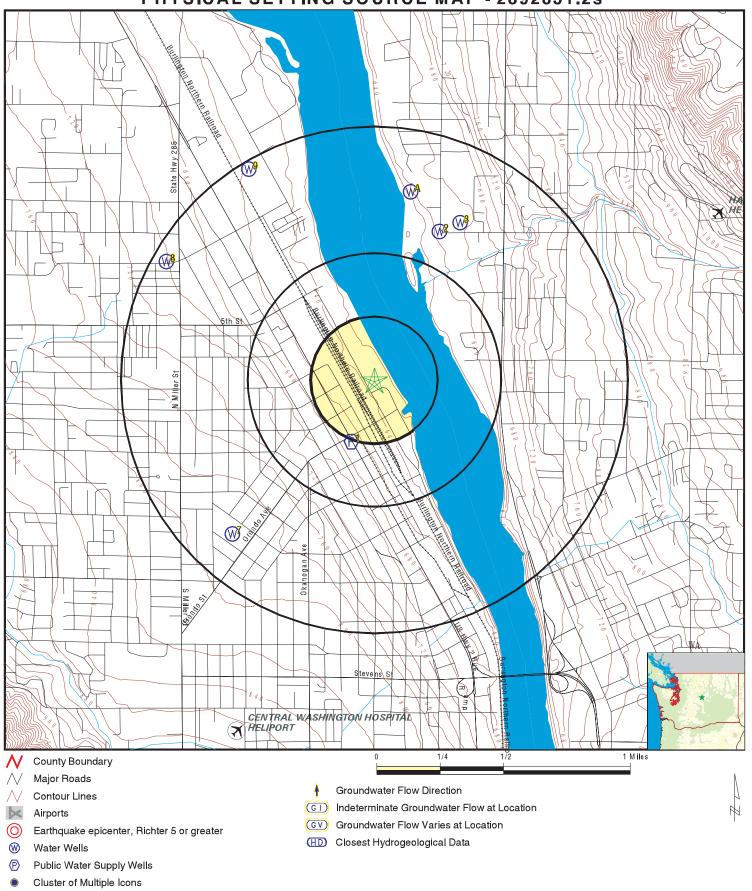
MAP ID	WELL ID	LOCATION FROM TP
1	WA5312365	1/4 - 1/2 Mile SSW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 2892831.2s



SITE NAME: City of Wenatchee ADDRESS: 25 N Worthen Street

Wenatchee WA 98801 LAT/LONG: 47 4267 / 120 3084

Maul Foster & Alongi, Inc.

CLIENT: Maul Foster & ACONTACT: Justin Pounds

INQUIRY#: 2892831.2s DATE: October 13, 2010 3:02 pm

Copyright © 2010 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

Map ID Direction Distance

Elevation Database EDR ID Number

SSW FRDS PWS WA5312365

1/4 - 1/2 Mile Higher

PWS ID: WA5312365

Date Initiated: Not Reported Date Deactivated: Not Reported

PWS Name: CHELAN RED ORCHARD INC

MANSON, WA 98831

Addressee / Facility: Not Reported

Facility Latitude: 47 25 24 Facility Longitude: 120 18 33

City Served: Not Reported
Treatment Class: Untreated Population: 00000026

Violations information not reported.

2 NNE FED USGS USGS3218872 1/2 - 1 Mile

Higher

Agency cd: USGS Site no: 472615120181601

Site name: 23N/20E-34R02 SU43

EDR Site id: USGS3218872 Latitude: 472606.63 Longitude: 1201810.54 Dec lat: 47.435175 -120.30292778 Dec Ion: Coor meth: G Latlong datum: NAD83 Coor accr: 5 Dec latlong datum: NAD83 District: 53 53 017 State: County:

Country: US Land net: SE SE S34 T23N R20E W

Location map: WENATCHEE Map scale: 24000

Altitude: 620

Altitude method: Interpolated from topographic map

Altitude accuracy: 20

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ColumbiaEntiat. Washington. Area = 1520 sq.mi.

Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: Not Reported

Date inventoried: 19940815 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: Unconfined single aquifer

Aquifer: UNCLASSIFIED OVERBURDEN

Well depth: 56 Hole depth: Not Reported

Source of depth data: driller
Project number: WA36500

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 count: 0000-00-00 Water quality data begin date: 1994-08-15

Water quality data end date:1994-08-15 Water quality data count: 1

Ground water data begin date: 0000-00-00 Ground water data end date: 0000-00-00

Ground water data count: 0

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance

Elevation Database EDR ID Number

NNE 1/2 - 1 Mile **FED USGS** USGS3218871

Higher

Agency cd: **USGS** Site no: 472609120180001

23N/20E-35N01 Site name:

USGS3218871 Latitude: 472609 EDR Site id: Longitude: 1201800 Dec lat: 47.43568226 Dec Ion: -120.30118281 Coor meth: Μ

Coor accr: F Latlong datum: NAD27 Dec latlong datum: NAD83 District: 53 017 State: 53 County:

SW SW S35 T23N R20E W Country: US Land net:

Location map: WENATCHEE Map scale: 24000

Altitude: 651

Altitude method: Interpolated from topographic map

Altitude accuracy:

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ColumbiaEntiat. Washington. Area = 1520 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19770316 Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag:

Single well, other than collector or Ranney type Type of ground water site:

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: 50 Hole depth: 50

Source of depth data: other Project number: Not Reported

Daily flow data begin date: 0000-00-00 Real time data flag: 0

Daily flow data end date: 0000-00-00 Daily flow data count:

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Peak flow data count: Water quality data begin date: 1979-07-12 Water quality data end date:1979-07-12 Water quality data count:

Ground water data begin date: 1977-03-16 Ground water data end date: 1977-03-16

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1977-03-16 35

Α4 **FED USGS** USGS3218873

North 1/2 - 1 Mile Lower

Agency cd: USGS Site no: 472615120181622

Site name: 23N/20E-34R04

 Latitude:
 472615
 EDR Site id:
 USGS3218873

 Longitude:
 1201816
 Dec lat:
 47.43734886

 Dec Ion:
 -120.30562745
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 53

 State:
 53
 County:
 017

Country: US Land net: SE SE S34 T23N R20E W

Location map: Not Reported Map scale: Not Reported

Altitude: 9999.99
Altitude method: Unknown
Altitude accuracy: 999

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ColumbiaEntiat. Washington. Area = 1520 sq.mi.

Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: Not Reported

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag: `

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: Not Reported

Well depth: 60 Hole depth: Not Reported

Source of depth data: driller
Project number: WA00324

Real time data flag: Not Reported Daily flow data begin date: Not Reported Daily flow data end date: Not Reported Daily flow data count: Not Reported Peak flow data begin date: Not Reported Peak flow data end date: Not Reported Water quality data begin date: Not Reported Peak flow data count: Not Reported Water quality data end date:Not Reported Water quality data count: Not Reported Ground water data begin date: Not Reported Ground water data end date: Not Reported

Ground water data count: Not Reported

Ground-water levels, Number of Measurements: 0

A5
North FED USGS USGS3218874
1/2 - 1 Mile

Site no:

Lower

Agency cd: USGS

Site name:

 Latitude:
 472615
 EDR Site id:
 USGS3218874

 Longitude:
 1201816
 Dec lat:
 47.43734886

 Dec Ion:
 -120.30562745
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 53

 State:
 53
 County:
 017

Country: US Land net: SE SE S34 T23N R20E W

Location map: Not Reported Map scale: Not Reported

Altitude: 9999.99
Altitude method: Unknown
Altitude accuracy: 999

Altitude datum: National Geodetic Vertical Datum of 1929

23N/20E-34R05

Hydrologic: Upper ColumbiaEntiat. Washington. Area = 1520 sq.mi.

Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: Not Reported

Date inventoried: Not Reported Mean greenwich time offset: PST

472615120181623

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: 55 Hole depth: Not Reported

Source of depth data: driller
Project number: WA00324

Real time data flag: Not Reported Daily flow data begin date: Not Reported Daily flow data end date: Not Reported Daily flow data count: Not Reported Peak flow data begin date: Not Reported Peak flow data end date: Not Reported Peak flow data count: Not Reported Water quality data begin date: Not Reported Water quality data end date:Not Reported Water quality data count: Not Reported Ground water data begin date: Not Reported Ground water data end date: Not Reported

Ground water data count: Not Reported

Ground-water levels, Number of Measurements: 0

A6
NNE
FED USGS USGS3218875
1/2 - 1 Mile

Higher

Agency cd: USGS Site no: 472616120181301

Site name: 23N/20E-34R01

 Latitude:
 472616
 EDR Site id:
 USGS3218875

 Longitude:
 1201813
 Dec lat:
 47.43762665

 Dec Ion:
 -120.3047941
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 53

 State:
 53
 County:
 017

Country: US Land net: SE SE S34 T23N R20E W

Location map: Not Reported Map scale: Not Reported

Altitude: 645

Altitude method: Interpolated from topographic map

Altitude accuracy: 10

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ColumbiaEntiat. Washington. Area = 1520 sq.mi.

Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: Not Reported

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: ALLUVIUM (QUATERNARY)

Well depth: 60 Hole depth: Not Reported

Source of depth data: driller

Project number: Not Reported

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 Water quality data begin date: 1959-10-20

Water quality data end date:1960-05-18 Water quality data count: 2

Ground water data begin date: 0000-00-00 Ground water data end date: 0000-00-00

Ground water data count: 0

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance

Elevation Database EDR ID Number

7 SW 1/2 - 1 Mile

FED USGS USGS3219041

1/2 - 1 Mile Higher

Agency cd: USGS Site no: 472505120190901

Site name: 23N/20E-35F02

 Latitude:
 472505
 EDR Site id:
 USGS3219041

 Longitude:
 1201909
 Dec lat:
 47.41790429

 Dec lon:
 -120.32034956
 Coor meth:
 M

 Coor accr:
 S
 Latlong datum:
 NAD27

Coor accr:SLatlong datum:NAD27Dec latlong datum:NAD83District:53State:53County:017

Country: US Land net: SE NW S35 T23N R20E W

Location map: WENATCHEE Map scale: 24000

Altitude: 820

Altitude method: Interpolated from topographic map

Altitude accuracy: 10

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ColumbiaEntiat. Washington. Area = 1520 sq.mi.

Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: 19340101

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: 28 Hole depth: Not Reported

Source of depth data: driller
Project number: Not Reported

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 count: 0 Peak flow data end date: 0000-00-00
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: 1940-01-01 Ground water data end date: 1940-01-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1940-01-01 20

1/2 - 1 Mile Higher

8 WNW FED USGS USGS3218870

TC2892831.2s Page A-12

Agency cd: USGS Site no: 472601120192901

Site name: 23N/20E-34K01

 Latitude:
 472601
 EDR Site id:
 USGS3218870

 Longitude:
 1201929
 Dec lat:
 47.43345972

 Dec Ion:
 -120.32590579
 Coor meth:
 M

 Coor accr:
 S
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 53

 State:
 53
 County:
 017

Country: US Land net: NW SE S34 T23N R20E W

Location map: WENATCHEE Map scale: 24000

National Geodetic Vertical Datum of 1929

Altitude: 690

Altitude method: Interpolated from topographic map
Altitude accuracy: 10

Hydrologic: Upper ColumbiaEntiat. Washington. Area = 1520 sq.mi.

Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: 19490601

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag: Y

Altitude datum:

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: Not Reported

Well depth: 40 Hole depth: Not Reported

Source of depth data: driller

Project number: Not Reported

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 count: 0000-00-00
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: 1949-06-01 Ground water data end date: 1949-06-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1949-06-01 30

Higher

9 NNW FED USGS USGS3218876 1/2 - 1 Mile

Agency cd: USGS Site no: 472620120190401

Site name: 23N/20E-34L02

 Latitude:
 472620
 EDR Site id:
 USGS3218876

 Longitude:
 1201904
 Dec lat:
 47.43873757

Dec Ion: -120.31896128 Coor meth: Μ Coor accr: S Latlong datum: NAD27 NAD83 Dec latlong datum: District: 53 State: 53 County: 017

Country: US Land net: NE SW S34 T23N R20E W

Location map: WENATCHEE Map scale: 24000

Altitude: 620

Altitude method: Interpolated from topographic map

Altitude accuracy: 10

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ColumbiaEntiat. Washington. Area = 1520 sq.mi.

Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: 19580401

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: 46 Hole depth: Not Reported

Source of depth data: driller

Project number: Not Reported

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 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: 1958-04-01 Ground water data end date: 1958-04-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1958-04-01 26

AREA RADON INFORMATION

Federal EPA Radon Zone for CHELAN 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: 98801

Number of sites tested: 3

Area Average Activity % <4 pCi/L % 4-20 pCi/L % >20 pCi/L Living Area - 1st Floor 2.200 pCi/L 100% 0% 0% Not Reported Living Area - 2nd Floor Not Reported Not Reported Not Reported Basement 3.267 pCi/L 67% 33% 0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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

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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APPENDIX G

AERIAL PHOTOGRAPHS



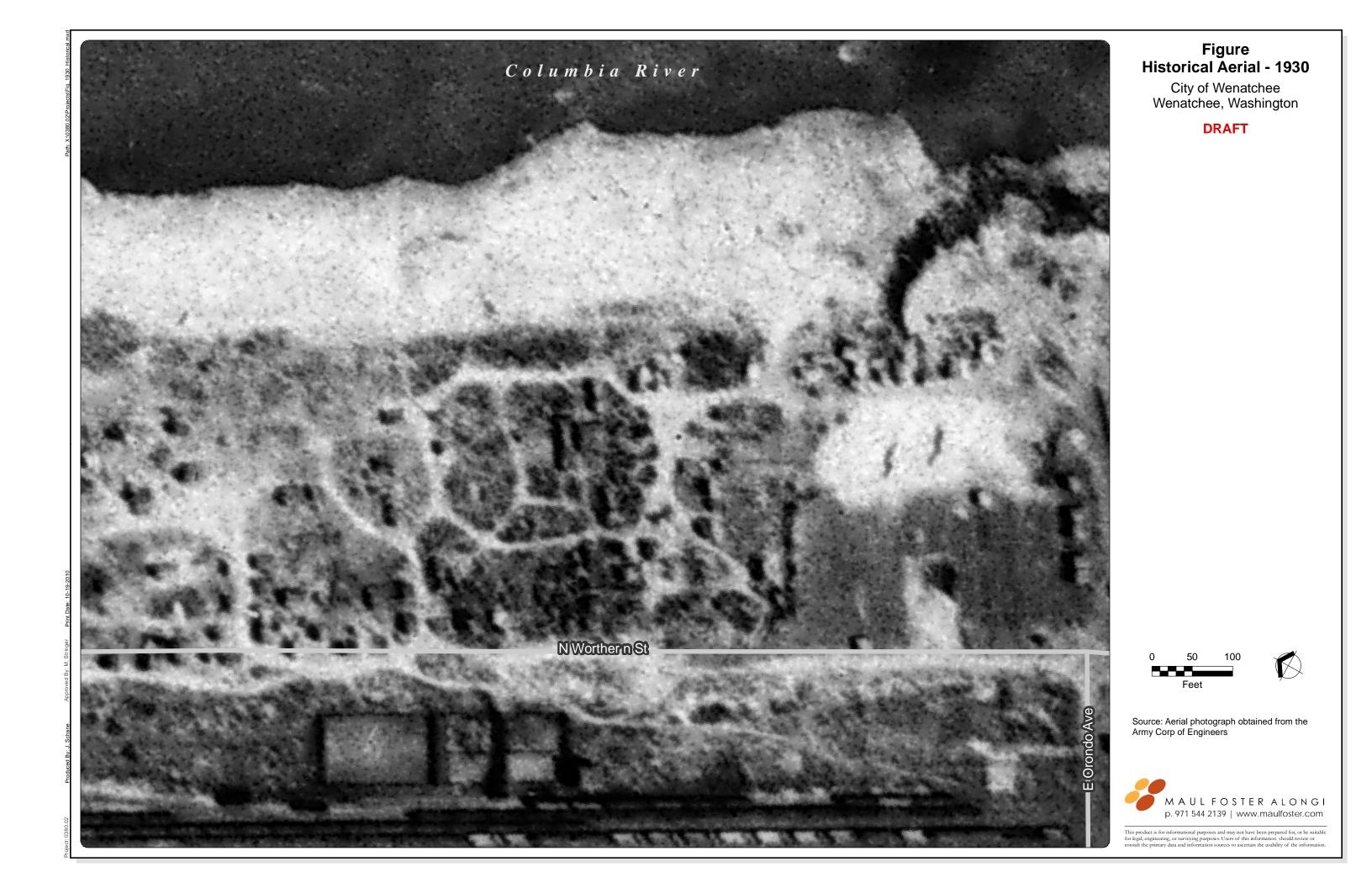




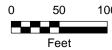




Figure Historical Aerial - 1970

City of Wenatchee Wenatchee, Washington

DRAFT





Source: Aerial photograph obtained from the Army Corp of Engineers



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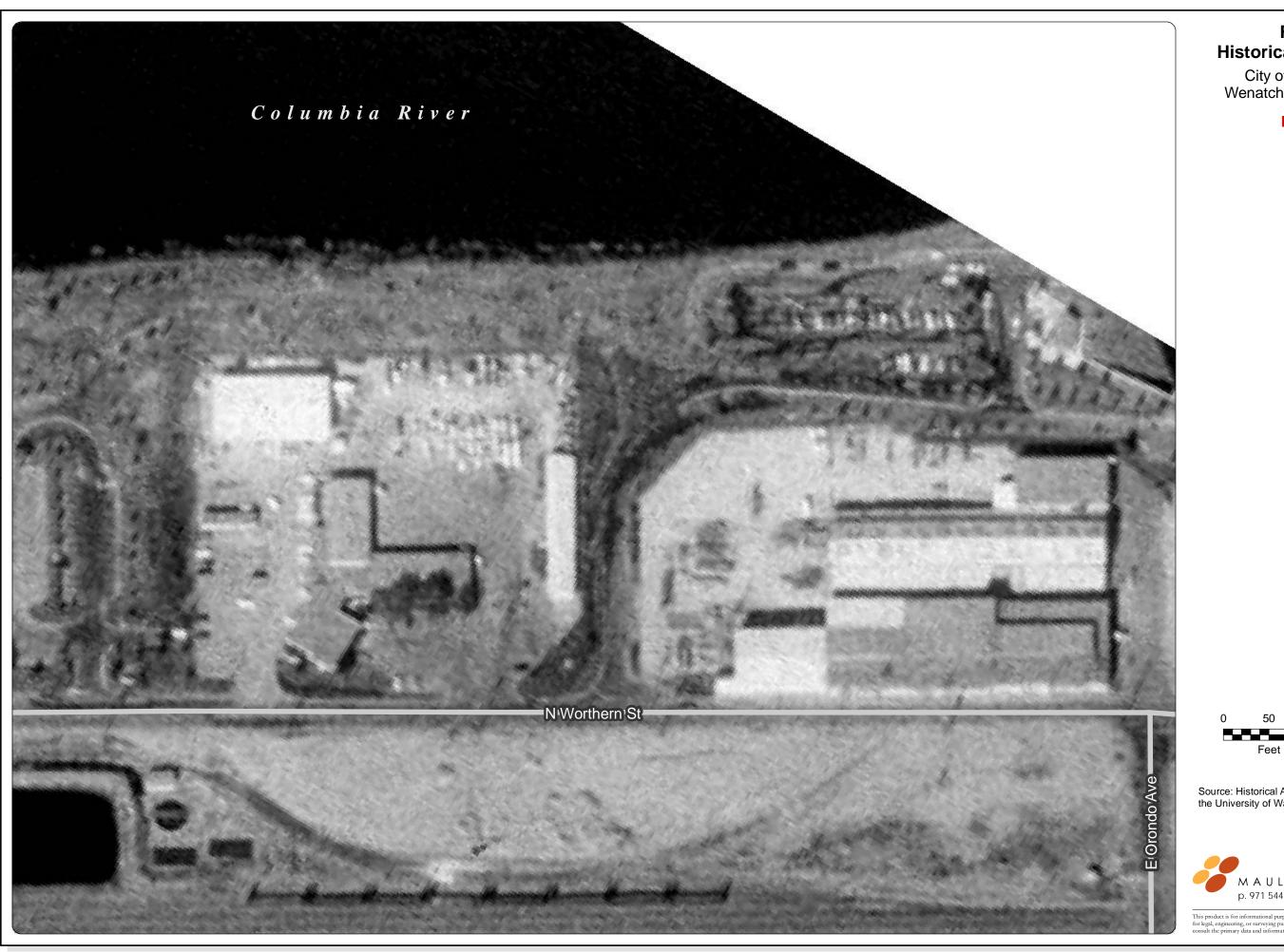
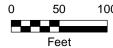


Figure Historical Arial - 1991

City of Wenatchee Wenatchee, Washington

DRAFT





Source: Historical Aerial photograph provided by the University of Washington.

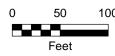




Figure Aerial - 2006

City of Wenatchee Wenatchee, Washington

DRAFT





Source: Aerial photograph obtained from the City of Wenatchee



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information

APPENDIX H

SANBORN FIRE INSURANCE MAP REVIEW



City of Wenatchee

25 N Worthen Street Wenatchee, WA 98801

Inquiry Number: 2892831.3

October 21, 2010

Certified Sanborn® Map Report



Certified Sanborn® Map Report

10/21/10

Site Name: Client Name:

City of Wenatchee Maul Foster & Alongi, Inc. 25 N Worthen Street 7223 NE Hazel Dell Avenue Wenatchee, WA 98801 Vancouver, WA 98665

EDR Inquiry # 2892831.3 Contact: Justin Pounds



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Maul Foster & Alongi, 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: City of Wenatchee
Address: 25 N Worthen Street
City, State, Zip: Wenatchee, WA 98801

Cross Street:

P.O. # NA



Sanborn® Library search results Certification # 2C7F-410B-80F3

UNMAPPED PROPERTY

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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 I

HISTORICAL TOPOGRAPHIC MAPS



City of Wenatchee

25 N Worthen Street Wenatchee, WA 98801

Inquiry Number: 2892831.4

October 15, 2010

The EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

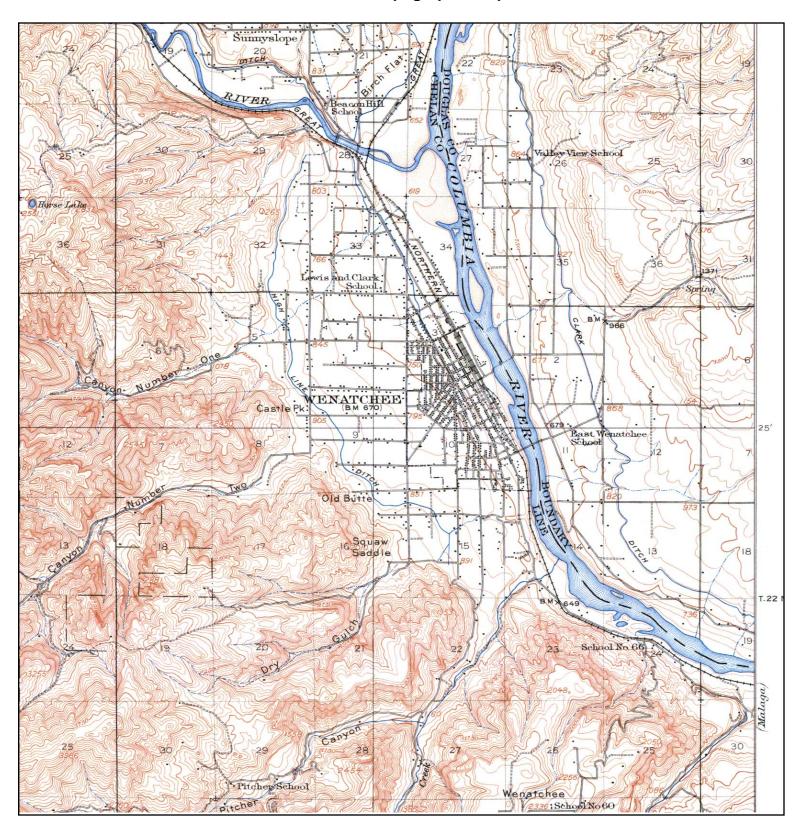
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Historical Topographic Map





TARGET QUAD

NAME: Wenatchee, WA

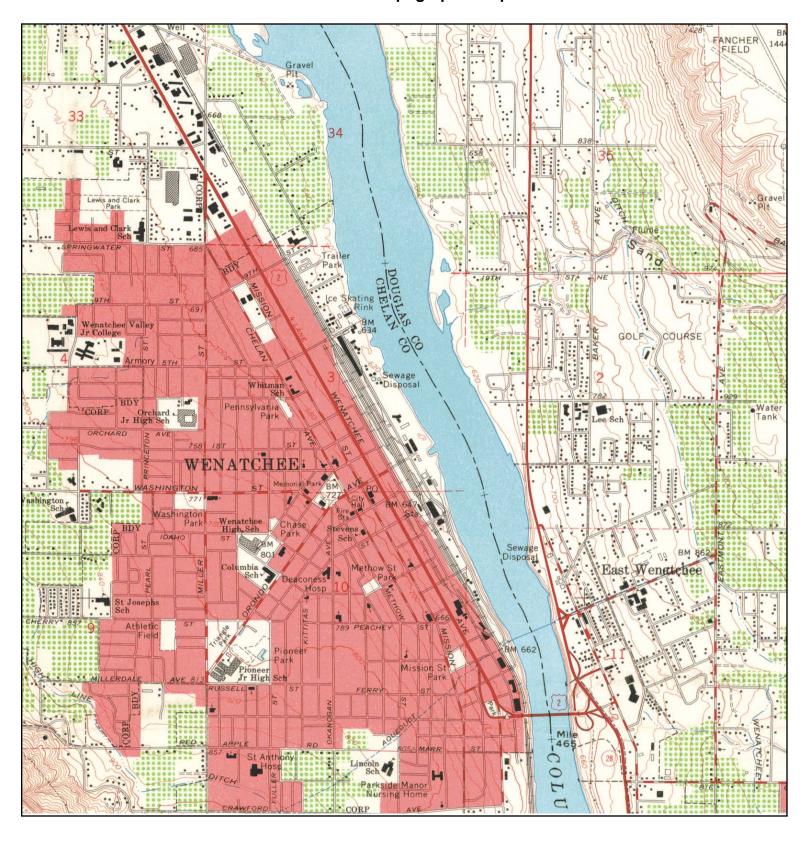
MAP YEAR: 1913

SERIES: 15 SCALE: 1:62,500 SITE NAME: City of Wenatchee ADDRESS: 25 N Worthen Street

Wenatchee, WA 98801 LAT/LONG: 47.4267 / 120.3084 CLIENT: Maul Foster & Alongi, Inc.

CONTACT: Justin Pounds INQUIRY#: 2892831.4 RESEARCH DATE: 10/15/2010

Historical Topographic Map





TARGET QUAD

NAME: Wenatchee, WA

MAP YEAR: 1966

SERIES: 7.5 SCALE: 1:24,000 SITE NAME: City of Wenatchee

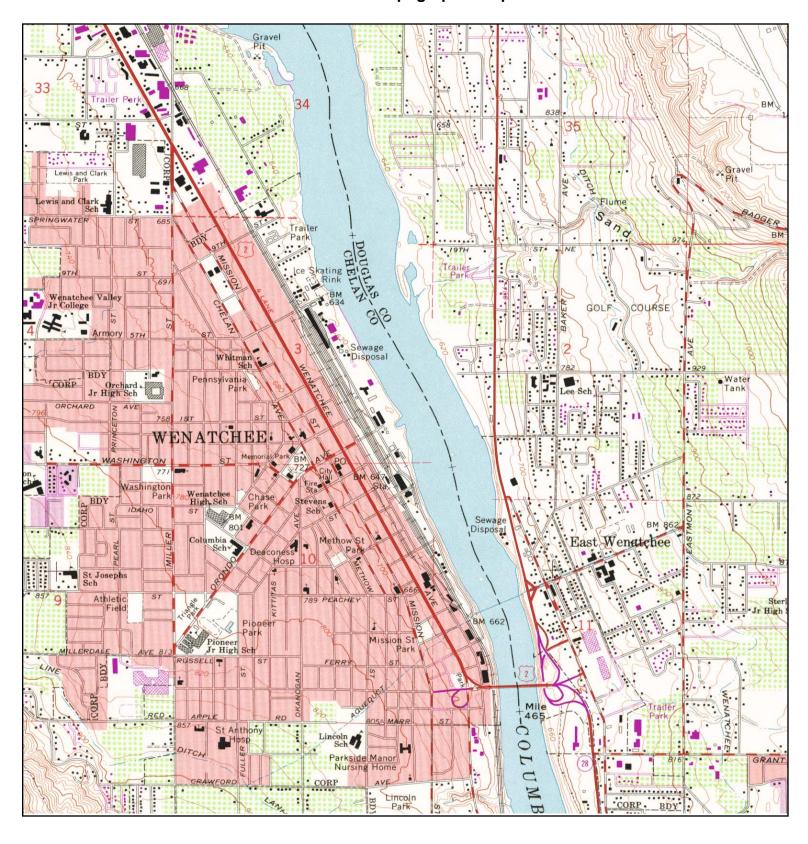
ADDRESS: 25 N Worthen Street Wenatchee, WA 98801

LAT/LONG: 47.4267 / 120.3084

CLIENT: Maul Foster & Alongi, Inc.

CONTACT: Justin Pounds INQUIRY#: 2892831.4 RESEARCH DATE: 10/15/2010

Historical Topographic Map





TARGET QUAD

NAME: Wenatchee, WA

MAP YEAR: 1978

PHOTOREVISED FROM:1966

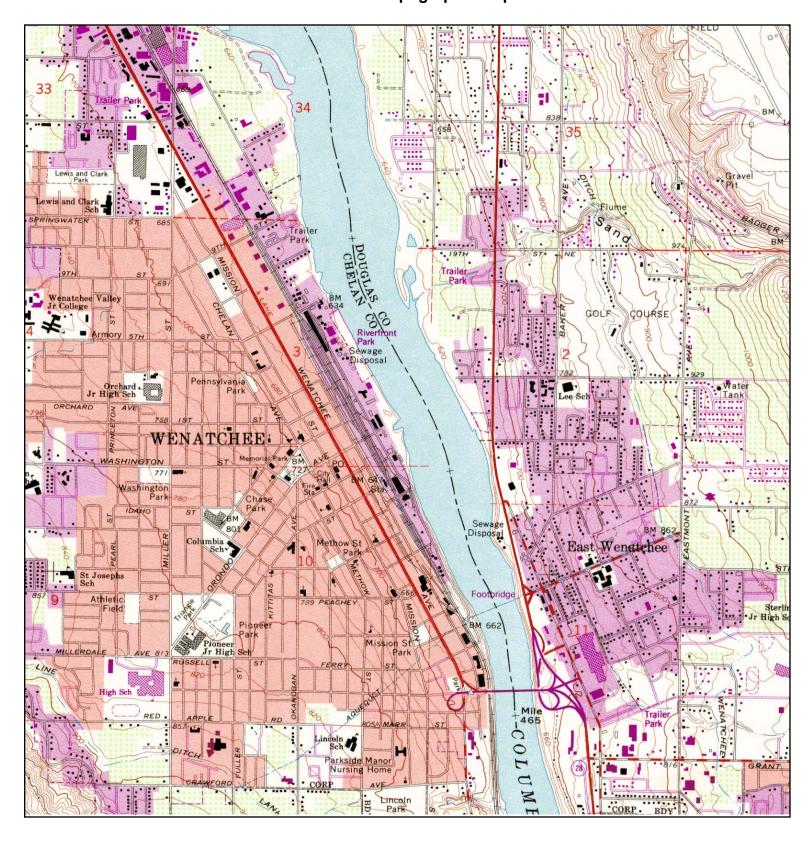
SERIES: 7.5 SCALE: 1:24,000 SITE NAME: City of Wenatchee

ADDRESS: 25 N Worthen Street

Wenatchee, WA 98801 LAT/LONG: 47.4267 / 120.3084 CLIENT: Maul Foster & Alongi, Inc.

CONTACT: Justin Pounds INQUIRY#: 2892831.4 RESEARCH DATE: 10/15/2010

Historical Topographic Map





TARGET QUAD

NAME: Wenatchee, WA

MAP YEAR: 1987

PHOTOREVISED FROM:1966

SERIES: 7.5 SCALE: 1:24,000 SITE NAME: City of Wenatchee

ADDRESS: 25 N Worthen Street

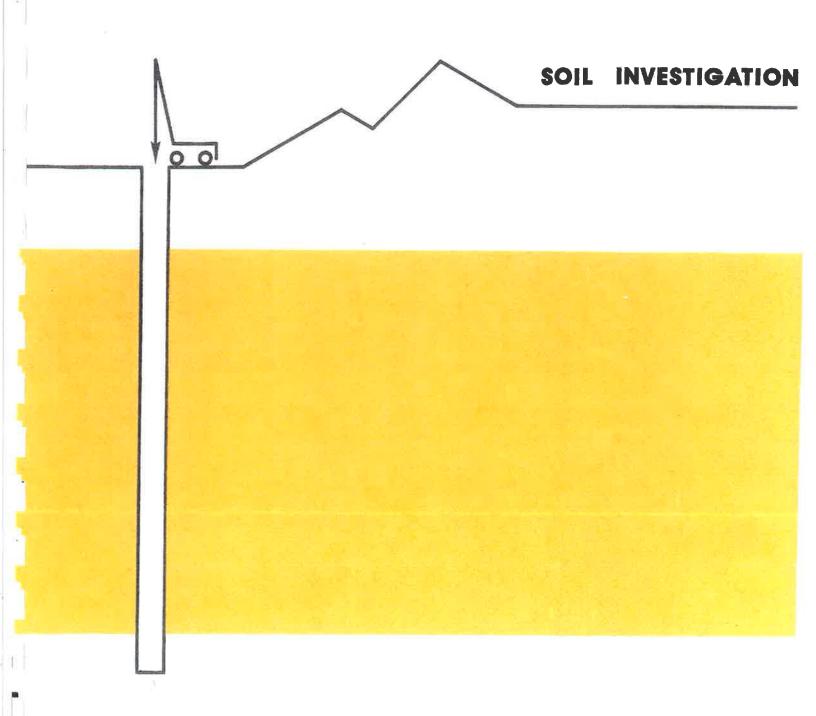
Wenatchee, WA 98801 LAT/LONG: 47.4267 / 120.3084 CLIENT: Maul Foster & Alongi, Inc.

CONTACT: Justin Pounds INQUIRY#: 2892831.4 RESEARCH DATE: 10/15/2010

APPENDIX J

PRIOR ENVIRONMENTAL REPORTS





budinger & associates geotechnical & material engineers

budinger & associates

geotechnical & material engineers

Chelan County PUD #1 Commissioners

Dec. 2, 1981.

c/o The DOH Associates 500 Doneen Building Wenatchee, Wa. 98801

Job Number: S81127

Attn: David O. Harris

PROJECT: Wenatchee Riverfront Park

Wenatchee, Wa.

SUBJECT: Soil and Gas Generation Investigation

Gentlemen:

As requested, we have performed the subject investigation in conjunction with Dr. Kenneth E. Hartz PE, who specializes in Landfills and Methane Generation. The results of our investigation are herewith transmitted.

If any questions should arise regarding the interpretation of the contents of this report, please feel free to contact us for clarification. Specifically, we would welcome the opportunity of reviewing plans and specifications to assure proper incorporation of these recommendations.

It has been a pleasure serving you on this project, and we look forward to the opportunity of assisting you with future endeavors.

Respectfully Submitted BUDINGER AND ASSOCIATES

Peter C. Ingraham EIT

Kenneth E. Hartz PhD PE

F. C. Budinger PE

FCB/jh Addressee - 5

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1.0 This report presents the results of a soil and gas generation investigation for the proposed Wenatchee Riverfront Park to be constructed along the west side of the Columbia River, between 5th and Orondo Streets in Wenatchee, Washington.

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The field and laboratory investigations contained in the following pages of this report were performed in accordance with generally accepted geotechnical and environmental engineering practices, as outlined in our proposal of 10/26/81. Specifically included are the following engineering evaluations and recommendations:

Depth & Extent of Surface Cap Composition of Soils Bearing Strata Allowable Bearing Pressures Estimated Settlements Earthwork Procedures Slope Stability Lateral Earth Pressures Composition of Fill Nature of Gas Generation Control of Gas Emissions Monitoring of Gas Emissions Rate of Gas Generation

1.2 STRUCTURAL CONSIDERATIONS___

Proposed is the construction of a public park, incorporating numerous plantings, pathways, interpretive displays, and restroom facilities. It is anticipated that foundation loading for the planned facilities will be relatively light, and will not exceed the following:

	MAXIMUM LOAD
Walls	1 klf
Columns	10 k

Some modification of the existing boat ramp is anticipated, as well as construction of paved access roads for maintenance and pedestrian traffic.

The above information was obtained through conversation with the design architects (DOH Associates, Dave Harris), and the Chelan County PUD Interpretative Specialist (Tom Vetter).

1.3 SITE LOCATION

The subject site is situated east of downtown Wenatchee, Washington along the bank of the Columbia River. Specifically, the site trends north to south from 5th Street, extending 1 block beyond Orondo Street to the south. The site is bounded along its western margin by a series of buildings comprising a sewage treatment plant, food processing plant, City Public Works buildings and a steel fabrication plant.

	Ε	N	С	0	U	N	T	Ε	R	Ε	D	С	0	N	D	I	T	I	0	N	S	
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2.1 GEOLOGIC SETTING

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During the Miocene Epoch (12 million years ago), a series of volcanic events extruded lava from fissures in the earth's crust over an existing topography of Precambrian (over 600 million years old) granitic and sedimentary rocks. These lava flows comprise what is referred to as the "Columbia River Group", and vary in thickness from several feet to several hundred feet. In some areas, the total thickness of the Columbia River Group exceeds 10,000'. The Columbia River Group basalts were later uplifted and tilted to the southwest during an episode of orogeny in the Pliocene Epoch (10 million years ago).

The Columbia River has maintained its channel in these basalt layers during the orogeny; its channel widening considerably, due to the wasting of slopes along its banks. The site occupies what formerly was a low velocity environment within the Columbia River channel, which allowed deposition of silt, clay and fine sand within its margins. Glacial flooding covered many portions of the Wenatchee Valley with gravel, cobbles, and boulders. Underlying the alluvial gravel and fine sands is a friable sandstone of moderate induration.

2.1.1 Surface Winds

East Wenatchee, on a terrace above the river valley, generally trend from the northwest at 5-10 mph. It is reasonable to assume that some turbulent disruption will occur as the wind travels from the escarpment into the Columbia River Valley at Wenatchee, as well as some redirection alligning the winds north-south within the valley walls. During the summer months, some days of stagnant air conditions, combined with high temperatures occur.

2.2 SURFACE CONDITIONS_____

The surface of the site comprises a relatively level parcel surfaced with gravel. The eastern margin comprises a steep bank dropping approximately 25' to the waters of the Columbia River. Along its western margin, the site is occupied by several buildings owned by the City of Wenatchee Public Works Department, an asphalt parking lot for City machinery and vehicles, and a small gravel pit and storage area operated by the City of Wenatchee. At its southern end, there is a community boat ramp.

2.3 SITE HISTORY

3,

The subject site was used as a refuse dump periodically from approximately 1930 to 1972. During this time, refuse was discarded along the river bank (in what at the time was a bog). For sometime this refuse was incinerated prior to placement in the landfill, however, this practice was later discontinued. After seasonal high fluctuation of the river level and subsequent erosion of the refuse, a dike was constructed of boulders and concrete construction debris, thereby establishing the eastern margin of the site.

According to available records, in 1972 the placement of refuse was discontinued, and the surface of the site graded with 3'-5' of silty sand.

A steel building erected for the City Sanitation Department on the refuse dump prior to 1970, has experienced approximately 1'-2' of differential settlement due to consolidation/degradation of the refuse material upon which it bears. It is evident that the rise in pool elevation caused by modification of Rock Island Dam, inundated portions of the landfill comprising organic solids, thus providing an ideal medium for decomposition/degradation, and subsequent generation of methane and carbon dioxide. The above information was derived through conversation with the Assistant Director of Public Works of the City of Wenatchee, and several Public Works employees (Norm Delabarre, et.al.).

2.4 SUBSURFACE CONDITIONS_____

The subsurface soils are very similar to those described under "Geologic Setting" and "Site History". Those are a sandstone bed, and flood and slackwater river deposits, overlain by refuse and a blanket of cover soil. For design purposes, the materials encountered can be considered to comprise 7 Strata, described as follows and referred to henceforth by number.

- Stratum 1. Silty Sand Cover Soil This Stratum varies in thickness across the site from 2'-5'. Placed as a blanket of cover soil, this material comprises silty sand with a trace of gravel. It is moderately high in shear strength, relatively low in compressibility, has relatively low permeability and is moderately frost susceptible.
- Stratum 2. Organic Refuse

 domestic and some industrial refuse consisting of
 styrofoam sheeting, wire, concrete blocks, paper, stoves,
 old car bodies, cardboard packing material, asphalt
 concrete, etc. Although compacted when placed, this
 refuse is susceptible to subsidence as its constituents
 decay. During such decay, methane gas generation will
 occur. For construction purposes, this material should
 be considered as having very low shear strength, high
 compressibility, high permeability, and a potential for
 volumetric change as decay/decomposition occurs.
- Stratum 3. Cinder Fill The cinder fill comprises the non-combustible fraction of organic refuse deposited in the landfill after incineration. It possesses moderate shear strength, low compressibility, and is relatively impermeable. As such, this material is reasonably well suited for the support of light structures.

- Stratum 4. Inorganic/Non-Combustible Refuse This Stratum was placed presumably during sidewalk renovation and demolition of old buildings during new construction phases. The material has been placed in the form of a dike extending north to south along the eastern perimeter, and as rip-rap along the river bank. Occasional lenses of this material were noted intermingled with the refuse, and underlying the cinders. They are differentiated because of their distinct lack of organic material. This material possesses high shear strength, low compressibility, and high permeability. It should be noted however, that concrete construction debris frequently traps many voids during placement, that can allow subterranean erosion/migration of soils, thus causing subsidence or undermining of structures within close proximity.
- Stratum 5. Sewage Sludge

 This material comprises a sandy silt-type material, possessing moderate shear strength, slight cohesion, high compressibility, and is relatively impermeable. Within the sandy silt matrix, wood fibers and other organics were frequently noted.

 As such, this material has the potential for subsidence as a result of the decomposition of its organic constituents, as well as overall consolidation due to its overlying surcharge.

- Stratum 6. Native Soils

 Onderlying the site at depth are native flood and slackwater deposits comprising clayey silt with some sand to the north, and sandy gravel to the south. This Stratum should not be greatly affected by the structural or surcharge loads of the park development. The gravels possess high shear strength, low compressibility, moderate permeability, and are relatively non-frost susceptible.
- Stratum 7. Sandstone Bedrock

 test boring #9 is slightly indurated and friable.

 As such, excavation of this material can probably be effected through ripping. It possesses high shear strength, low compressibility, and is essentially impermeable.

2.5 GROUNDWATER

Free groundwater was encountered in test borings extending below river level. As the pool elevation of the Columbia River adjacent to the site varies, it should be anticipated that the high permeability of the solid waste materials will allow the groundwater elevation beneath the site to vary similarly.

Because the pool elevation is well controlled by Rock Island Dam, it is anticipated that the fluctuations incurred will have little or no direct effect on footings of restroom facility structures within the proposed park. Fluctuation in the surface of free groundwater will however, have significant import on the rate of decomposition of domestic refuse materials within the fill. An increase of

decomposition induced by fluctuating water level could, therefore, conceivably produce increased methane gas volumes, as well as some subsidence of the surface due to the volumetric changes of decomposing material. Thus, water level fluctuation could possibly have an indirect effect on structures. Rapid drawdown could have an adverse effect on saturated, fine-grained soil slopes. If drawdown is severe, significant imbalance and possible slope failure could occur.

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3.0 Based upon the results of the field and laboratory investigations contained in the following pages, we conclude that the site can be made acceptable for the proposed City Park, if proper precautions and preparations are incorporated in the design. The continuous decomposition of landfill materials underlying the site present two significant problems. These are the generation of methane and carbon dixoide as solid waste is subjected to decomposition, and the decrease in volume accompaning this decomposition.

While the increased risk of disruption of structures must be accepted in constructing on a site such as this, these risks can be minimized by locating structures over areas of most dense fill, or fill comprising inert materials. As methane generation is continuous in nature, a means of constantly releasing accumulated methane is necessary to reduce the possibility of collecting explosive concentrations of gas above ground.

Initial plantings should not be adversely affected by methane generation unless roots penetrate the refuse/cover soil interface. This negative effect should diminish within 5-10 years, such that vegetation with deeper penetrating roots may prove acceptable.

3.1 GAS GENERATION

It is evident from laboratory testing, that the solid waste has undergone a major degree of decomposition and has become relatively stable. Following the procedures theorized by Pacy and quantified by Hartz, Table 2 tabulates the projected rates of methane generation and total methane potential. Methane potential deals with the total production capability for gas generation, while methane generation indicates the velocity of gas production.

The landfill has been subdivided into 5 segments, each segment representing a different rate of methane generation. The segments total productions were then accumulated after their respective rates were averaged from a yearly and daily rate standpoint. Air dillution of the methane was then calculated for the first foot of space above the soil surface. Above this level, air mixing generally causes gaseous emissions to be dilluted. This approach is generally a conservative one, in that if explosive conditions are not reached in the first foot of air space above the landfill, such conditions will not be reached. As the methane will diffuse upward, causing lower concentrations and thus less hazardous than calculated herein, the approach used has an inheirant safety factor associated with it.

TABLE I SOLID WASTE ANALYSIS RIVERFRONT PARK LANDFILL WENATCHEE, WASHINGTON

BORING	DEPTH	% MOISTURE	% VOLATILE SOLIDS 2
/	9 FT.	5.7%	3.1% *
2	13 FT.	12.0%	7.4 %
3	7 F T.	23.5%	31.1%
4	9 F T.	15.3%	7.1%
5	5 F T.	13.1%	6.8%
6	9FT.	14.8%	17.6%*
7	19 FT.	17.4%	6.9%
8	20FT.	44.1%	17.6%
10	1857.	19.6%	7.7%
12	15 FT.	19.4%	3.8%
23	14 FT.	36.2%	23.5%

- * INDICATES LARGE QUANTITY OF STYROFOAM PLASTIC.
- 1. REPORTED ON A TOTAL WET WEIGHT BASIS.
- 2. REPORTED ON A DRY WEIGHT BASIS.

Table 3 presents a compilation of these calculations, and Figure 1 graphically displays the main concentration as a function of wind velocity. The wind vector has been assumed to be either north or south (a least favorable condition for methane hazard), in order to maintain a conservative viewpoint.

From Table 3, it can be seen that a sustained wind of essentially calm conditions, with no diffusion of methane into the air above, must be encountered within the first year in order for hazardous conditions to be approached. The likelyhood of these conditions existing appears to be remote. Such true calm wind conditions would most likely only be encountered during summer, together with high intensity sunlight. As such, significant dillution of methane and a subsequent reduction of hazard potential would occur as the heated soil would rapidly diffuse gas passing through it into the air mass above.

Methane generation rates should be low, and decrease with the passage of time to extremely low levels. Due to the sporatic nature of generation, and the relatively low rate, it is unlikely that "tiki" style burners will need to be implemented to burn off the landfill emissions. Rather, the generated gasses can probably be adequately vented with venting/monitoring wells.

To assure that gas pressure does not increase within the landfill causing lateral migration of generated methane, and possible build-up to hazardous levels, the installation of additional gas venting/monitoring wells will be necessary. Where such wells might prove awkward to design or space utilization, venting can be routed to a more suitable location. Those areas designated as segments III and IV, have a high methane generation rate relative to other portions of the site. As such, great care should be taken to assure adequate venting within these segments.

TABLE 2

METHANE GENERATION RIVERFRONT PARK LANDFILL WENATCHEE, WASHINGTON

BORING	GENERATION RATE	TOTAL POTENTIAL
/	0**	.12
2	.03	.29
3	.59	1.24
4	.02	.28
5	. 02	.27
6	.27	. 70
7	.03	.27
8	.27	.70
10	.04	.3/
12	0*	.15

- * GENERATION RATE TOO LOW TO BE DETERMINABLE.
- 1. CUBIC FEET OF METHANE PER INPLACE POUND CALCULATED FOR YEAR 1982.
- 2. CUBIC FEET OF METHANE PER IN PLACE POUND.

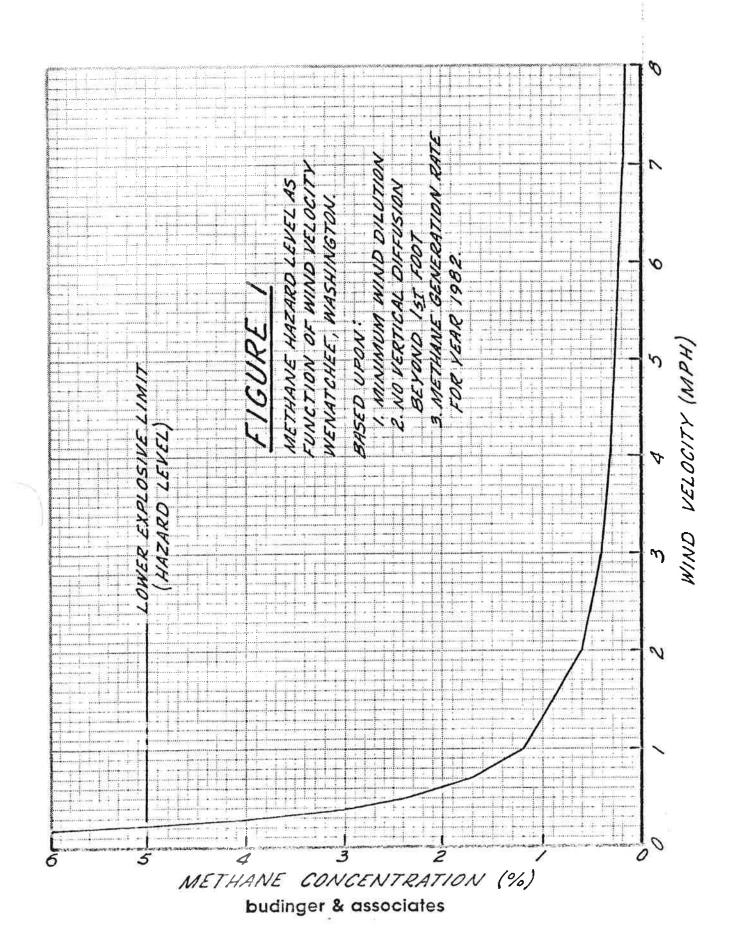
NOTE: BOTH 1. AND 2. ESTIMATED ON BASIS OF IN PLACE DENSITY AT 45 POUNDS PER CUBIC FOOT OF SOLID WASTE.

TABLE 3

METHANE QUANTITIES RIVERFRONT PARK LANDFILL WENATCHEE, WASHINGTON

SEGMENT	METHANE'	WIDTH 2	CONCENTRATION 3
I	0.10 × 10 5	28	.003
\mathcal{I}	1.5 × 105	27	.043
<i>III</i>	0.30 × 10 5	25	.009
IV	0.83 × 105	24	.027
V	1.10 × 105	23	.037
	•	TOTAL	.120

- 1. CUBIC FEET OF METHANE PER DAY.
- 2. WIDEST REACH IN FEET PERPENDICULAR TO WIND VECTOR.
- 3. BASED UPON IO MPH WIND VECTOR IN FIRST FOOT REPORT AS PERCENT METHANE.



As the rate of methane generation is susceptible to moisture fluctuation, the establishment of a reasonably impermeable cap of cover soil over the solid waste materials is essential. Penetration of runoff water through the cover soil could increase the rate of methane generation and subsequently methane concentrations above ground. The installation of dry wells should therefore, be avoided.

3.2 BUILDING FOUNDATIONS_____

The only truly suitable material for the support of footings on the site is the native Stratum 6 gravel material. Building locations underlain by Strata 2, 3, 4 and 5 are areas where a high risk of structural disruption must be accepted. While some foundation designs might allow construction on these questionable materials, acceptable solutions are probably not cost effective. Risks can be limited however, if proper methods, combined with locations underlain by Stratum 5, or a thin seam of Stratum 2 replaced with structural fill are selected.

3.3 DIKES

Although the existence of a dike, as mentioned under "Site History", is substantiated in several of our test borings, there remains a possibility that its content, width, or height, may not be continuous along the entire eastern margin of the site. Where encountered, this dike comprised coarse boulders constructed as noted in the crosssections of the site plan. Although we were assured of its existence by the former landfill operator, and the Assistant Director of Public Works, the possibility of discontinuities as mentioned, still exists. However, as no areas of instability are apparent along the riverbank, it is quite probable that the dike is continuous throughout the length of the site.

3.4 PLANT PRODUCTION

Based upon the results of agronomical soils testing, the existing cover soil appears to be reasonably well suited for the propagation of ornamentals and flowers. Due to the active production of methane beneath the soil cap, it will be necessary to limit the root depth of plantings such that they do not intersect the soil cap/solid waste interface for 5 to 10 years. After this time, it is projected that methane generation rates will be low enough to allow root penetration without adverse effects to vegetation. Although the proposed gas vent caps are relatively unobtrusive, they should probably be camoflaged with small shrub plantings. This is advisable as it is less likely that a smoldering cigarette butt will be discarded into an ornmantel planting, than in the direction of a device of mechanical appearance. Should such a scenario occur during a sporatic episode of methane emission (however unlikely), the results could prove less than desirable.

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4.0 It is recommended that methane generation be controlled with a minimum thickness of 5' of cover soil, and that gas pressures be vented to the atmosphere through modification of the existing monitoring wells and the addition of several additional venting/monitoring wells.

While buildings could be best supported in areas which are not underlain by refuse, we realize that this may not be entirely feasible. Recommendations are presented to establish foundation designs for buildings which must be included in the refuse area.

It is recommended that the conclusions regarding slope stability and the existence of a containment dike be accepted as probable. Consequently, nothing should be done to increase bank stability unless future experience identifies areas of local failure.

Specifically, the project should be designed and constructed in accordance with the following recommendations:

4.1 EARTHWORK

Although relatively little earthwork is anticipated, it will be necessary to place some fill to assure that a 5' thickness of sufficiently fine-grained cover soil exists over the entire site. In addition, these earthwork procedures can be used to place fill for structural support of buildings (in cases where removal and replacement of minor thicknesses of refuse are feasible).

- 4.1.1 Preparation of Surface to Receive Fill Prior to fill placement, the existing surface should be scarified, brought to the approximate optimum moisture content (± 2%), and compacted in-place to 90% of maximum density.
- 4.1.2 Fill Material Material similar to that comprising the existing cover soil (Stratum 1), is quite suitable for fill material. To assure low permeabilities and thus confine gas pressures, the material should contain between 20% and 80% fines (silt and clay passing the #200 sieve).
- 4.1.3 Fill Placement With the exception of the top 1' in areas to support vegetation, fill materials should be brought to the optimum moisture content (± 2%), placed in thin lifts (not exceeding 6" compacted), and compacted to 90% of maximum density. Fill should not be placed in a frozen condition or on frozen ground.
- 4.1.4 Compaction

 to those existing in Stratum 1, should not present significant difficulties. In our opinion, best results can probably be obtained with sheepsfoot or vibrating sheepsfoot equipment, at or slightly above the optimum moisture content.
- 4.1.5 <u>Maximum Density</u> Maximum density and optimum moisture content should be determined in accordance with the modified proctor method (ASTM D1557-78).
- 4.1.6 <u>Verification</u> A qualified technician should be present during all filling operations to test compaction and monitor compliance with these recommendations. While compaction verification is essential to proper fill placement, it is also critical in the backfill of utility trenches or stem walls.

4.2 STRUCTURE FOUNDATIONS_____

As outlined in "Conclusions" (paragraph 3.2), several options are available for support of buildings and minor structures. It is recommended that every attempt be made to place all structures in areas where they can be supported by inorganic fill or native soil. In areas where this is only partially possible, the existing refuse should be replaced with structural fill as recommended under "Earthwork" (paragraph 4.1). This will likely be the case where thicknesses are not too great (probably at transition zones where refuse pinches out between capping soil and underlying alluvium or dike fill). If it is necessary to construct buildings in areas completely underlain by refuse, it is recommended that a compensated mat foundation be used.

Specifically, footings founded in, and above, inorganic soils should be designed in accordance with the following:

FOOTING	MINIMUM	MINIMUM	BEARING
TYPE	DEPTH*	WIDTH	PRESSURE
Continuous Wall	30"	16"	1500 psf
Isolated Column	30"	24"	1800 psf

^{*} No less than depth of average frost penetration as established by local experience.

The recommended bearing pressure is intended to include dead load plus sustained live load, and may exclude temporary live loads (less then 1 month's duration), as well as 80% of the subterranean footing weight. These bearing pressures may be increased by 1/3 when the temporary effects of wind and seismic forces are included.

For structures supported on areas underlain by refuse, mat footings should be founded at depths such that the total weight of excavated Stratum 1 soil is equal to the total weight of the structure (dead plus sustained live load), including the foundation weight. It is anticipated that for small restroom type buildings, this can be achieved by excavations of approximately 2'-3' below grade. As with spread footings, minimum depth should not be less than the average depth of frost penetration as established by local experience.

In either case, if footing excavations have been inadvertantly over-excavated, the concrete should be placed directly on the excavated, undisturbed surface. Attempts to bring over-excavated footing excavations to grade without adequate control, seldom achieve acceptable results.

Foundations bearing on structural fill or native mineral materials should expect only negligible amounts of settlement. Although the exact amount is not predictable, it is not likely that it would exceed 1" and probably be limited to less than ½".

However, footings founded in refuse areas can be expected to experience substantial subsidence. The effect of the compensated mat is intended to cause the building to be supported without an increased soil load at the compressible levels. Consequently, while severe settlements (2' +) may be anticipated, they should be relatively uniform between the structure and the adjacent soils. This should minimize shear stresses on utility lines entering and leaving the structures. While theoretically the compensated foundation should not allow any settlement of the building relative to the adjacent soil, in practice, some is bound to occur. It is estimated that this is not likely to exceed 1" unless there is a substantial descrepancy between the total building weight and the weight of excavated soil.

4.3 SUBSIDENCE____

As suggested under "Settlement", the entire refuse area can be expected to settle consistantly under the surcharge of the capping soil, and due to the general decomposition of the refuse. If in the past portions of the landfill were covered in cells (typical in sanitary landfill operations), the inorganic material between cells could be expected to act as vertical dikes of relatively incompressible material. The resulting subsidence could then take the form of a concave, scalloped surface as the refuse decomposes, allowing the capping soil to subside between cells.

4.4 LATERAL EARTH PRESSURES_____

Lateral earth pressures are provided for design of subterranean structures, such as vaults, partial basements, etc. They are calculated assuming vertical walls, level backfill, and drained conditions. As the Active pressure requires some displacement to achieve full shear strength within the soil, the higher At-Rest pressures should be used in cases where retaining structures are rigidly restrained.

EARTH PRESSURE CONDITION	EQUIVALENT FLUID PRESSURE				
Active	35 pcf				
At-Rest	50 pcf				
Passive	400 pcf				

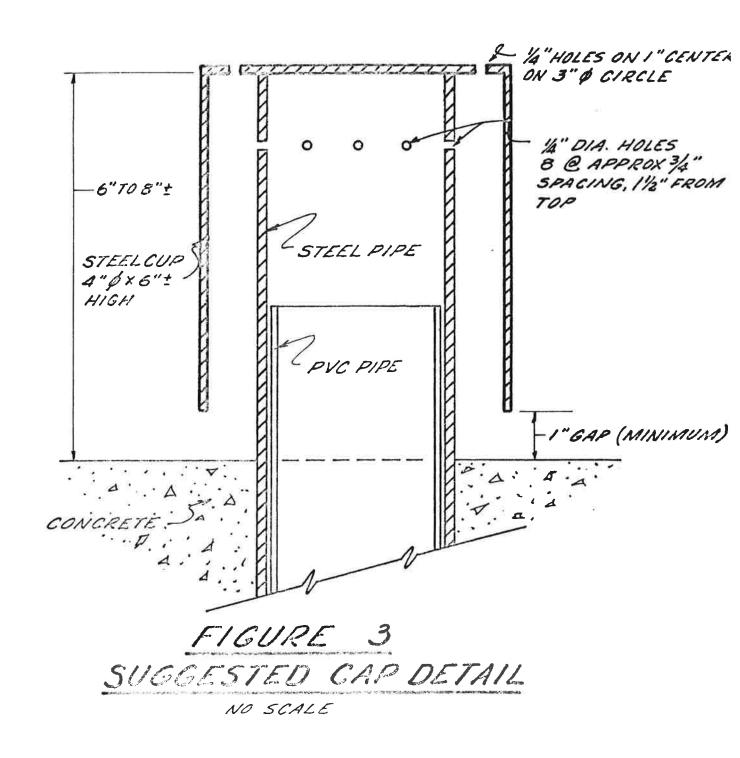
The Passive earth pressure is intended to provide lateral resistance for structures founded in Stratum 1. It can be used together with an earth/concrete friction factor of 0.35.

4.5 GAS VENTING WELLS

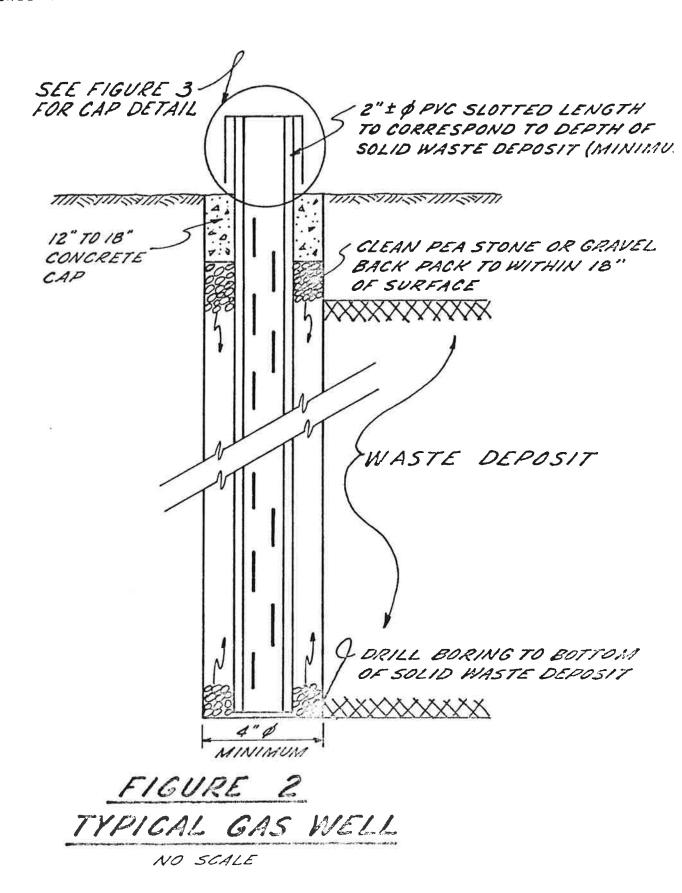
The existing gas monitoring wells installed during the field investigation, should be converted to venting wells. Four to five additional wells should be constructed at locations indicated on the site plan. It is recommended that the individual wells be provided with surface vents to defuse gasses and resist vandalism from normal park usage. A suggested design detail is included on the following page. It is further suggested that the wells be screened by a growth of low shrubs to further deffuse venting gasses, and to provide protection from casually tossed cigarettes etc.

NOTE:

GAS WELLS TO BE LOCATED UNDER BUSHES, HEDGE ROWS OR OTHER COVERINGS.



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Although individual venting of each well is preferable, several may be grouped into a single vent through a piping manifold system, if necessary for park planning. However, it is recommended that individual vents be retained in the area of higher gas generation rates (area III and IV). Vents may be laterally offset from the well locations if necessary.

4.5.1 Monitoring Gas wells should be pumped annually to collect samples which should be checked in the laboratory for methane, carbon dioxide, oxygen and nitrogen. In the event that laboratory tests indicate methane concentrations above 30% by volume, the soils engineer should be notified to recommend a more intense monitoring program. Routine operation of the park should include periodic monitoring of the lower explosive limit (LEL) using MSA (Mine Safety Association) hand-held equipment. If periodic readings above 5% by volume are obtained, the soils engineer should be notified to allow re-evaluation of the venting program.

In our opinion, the continued venting of the landfill at the 9 selected locations should provide an adequate means of releasing methane and other gasses generated within the landfill. While installation of additional wells could further reduce gas pressures and risks of developing explosive concentrations, it is our opinion, that the recommendations will provide adequate venting with acceptable safety factors.

However, the possibility remains that, even with additional wells, some generating cells may be isolated from the venting system, such that pressures could allow gas percolation through the soils in localized areas. Although considered extremely remote, this risk must be accepted as inheirent with construction on landfills.

4.6 VEGETATION

The results of agronomical testing performed on Stratum 1 samples indicate moderate to high sulphur and phosphorus levels, medium organic matter content, relatively high concentrations of potassium, tolerable soluable salt concentrations, and that soil pH is well within the desirable range. As such, maintenance applications to balance sulphur, phosphorus, and potassium should be applied. Further, agronomical testing of cover soils should be performed annually to maximize crop production. Fertilizer recommendations for a crop of ornamentals and flowers to be grown in 1982 are as follows:

- 1. 80 lbs actual Nitrogen/Acre
- 2. 120 lbs actual $P_2O_5/Acre$
- 3. 60 lbs actual K_2 0/Acre
- 4. 20 actual Sulfur/Acre*

*excluding segment IV

Vegetation should be selected such that root penetration is limited to Stratum 1 for at least 8-10 years. Penetration below the Stratum 1/Stratum 2 interface may expose vegetation to toxins produced by Stratum 2, until lower generation rates are achieved. The recommended minimum compacted Stratum 1 thickness should limit migration of methane through soils to well below toxic levels: Soils should be tested annually however, to assure acceptable levels for established vegetation.

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4.7 PAVEMENT SECTION

The following pavement section is designed to bear on either Stratum 1 material, or select compacted fill.

0" -	MATERIAL	THICKNESS	% COMPACTION	- 0"
2" _	Asphalt Concrete prime coat	2"	90% TM*	2"
	Aggregate BAse	4"	95% MP**	
6" _		A was a supplied to the suppli		6"
	Stratum 1 or Structural Fill		95% MP**	

*Theoretical Maximum
**Modified Proctor

The preceding pavement section should provide an economical surface under the prevailing soil conditions.

It should be noted that a higher degree of compaction is required for the subgrade than for the remainder of the site grading. As such, it is recommended that additional compaction be obtained after construction is completed during the fine grading operations of the paving contractor. After completion of the base course, a prime coat of RC 250 liquid asphalt should be applied to the compacted surface and allowed to cure.

A comprehensive maintenance program should be established to maintain the section integrity. This program should schedule a seal applied to the asphalt concrete surface periodically, to prevent infiltration of moisture into the subgrade through surface cracks. Further, positive surface drainage should be provided to prevent the ponding of melt water on the section's surface.

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These conclusions and recommendations are based upon the field and laboratory investigations contained in the following pages, and our understanding of the planned development, derived from information received from the architect (DOH Associates, David Harris).

These conclusions and recommendations were developed in accordance with generally accepted environmental and geotechnical engineering practices as outlined in our proposal of 10/26/81, and we make no other warranties either expressed or implied.

The conclusions and recommendations contained herein are based upon the assumption that classification and stratification of soil or refuse are continuous between test borings or pits. Although the boring pattern is reasonably dense, there always exists the possibility that conditions may vary between test borings, and that subterranean barriers may exist to prevent uniform gas migration.

Furthermore, the identification of the dike to contain refuse and provide slope stability is predicated partially on the fact that the auger met refusal at locations and depths where the surface of such a dike would be expected. There exists the possibility that this refusal pattern could be coincidental. If during construction variations in subsurface conditions are encountered, they should be brought to our attention immediately so that these conclusions and recommendations may be re-evaluated.

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- 1. APHA, AWWA, WPCF, <u>Standard Methods</u>, American Public Health Association, Washington, D.C. 14th Ed., 1975
- 2. EMCON Associates, John Pacey, President, Methane
 Generation and Recovery from Landfills, Ann Arbor Science,
 Michigan, 1980
- 3. Hartz, E.E., "Studies of Methanogenesis in Samples from Landfills", Research conducted for Getty Synthetic Fuels, Inc., University of Wisconsin Madison 1977-1979.

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6.1.1 TEST BORINGS_____

Test borings were drilled with a truck-mounted Mobile B-40H drill rig, and were advanced with $4\frac{1}{2}$ " diameter, solid-stem, continuous flight auger. Due to the variable nature of the Stratum 2 materials encountered (ranging from silt to concrete construction debris, stoves, discarded wire etc.), our auger met refusal in many test borings in this Stratum. Where rip-rap or large debris was not encountered, test borings were refused on native river cobbles or bedrock.

6.1.2 TEST PITS

Backhoe pits were excavated with a tractor-mounted Dynahoe to depths of refusal or maximum reach. From these pits, samples of newspaper were retrieved to date the deposit. To avoid discontinuity of Stratum 1, all backhoe pits were topped with a depth of cover soil equivalent to that removed by excavation.

Logs of test pits performed by our firm at the north end of the site for a previous soils investigation are presented together with pit locations, following the more recent subsurface information. These are presented with the permission of our previous client's agent (DOH Associates, David Harris).

6.1.3 GAS MONITORING WELLS

Gas monitoring wells comprising slotted 2" PVC pipe, were installed in 5 test borings to provide a means of monitoring gasses developed during decomposition/degradation of Stratum 2 materials. It is intended that these wells be converted to venting wells to dissipate build-up of subterranean gas pressure. All gas monitoring wells were secured with a locking cap to prevent accidental venting or detonation, and marked with steel fence stakes. The locations of test borings that received gas monitoring wells are indicated on the site plan, together with suggested additional well locations.

6.1.4 SAMPLING

The coarse granular nature of Stratum 1, together with the severe caving encountered at depth, precluded the retrieval of undisturbed samples. As such, auger cutting samples representing the various Strata encountered, were obtained as the drilling was performed, and sealed in waterproof bags for laboratory analysis.

6.4.0 CLASSIFICATION_____

ASTM D2488

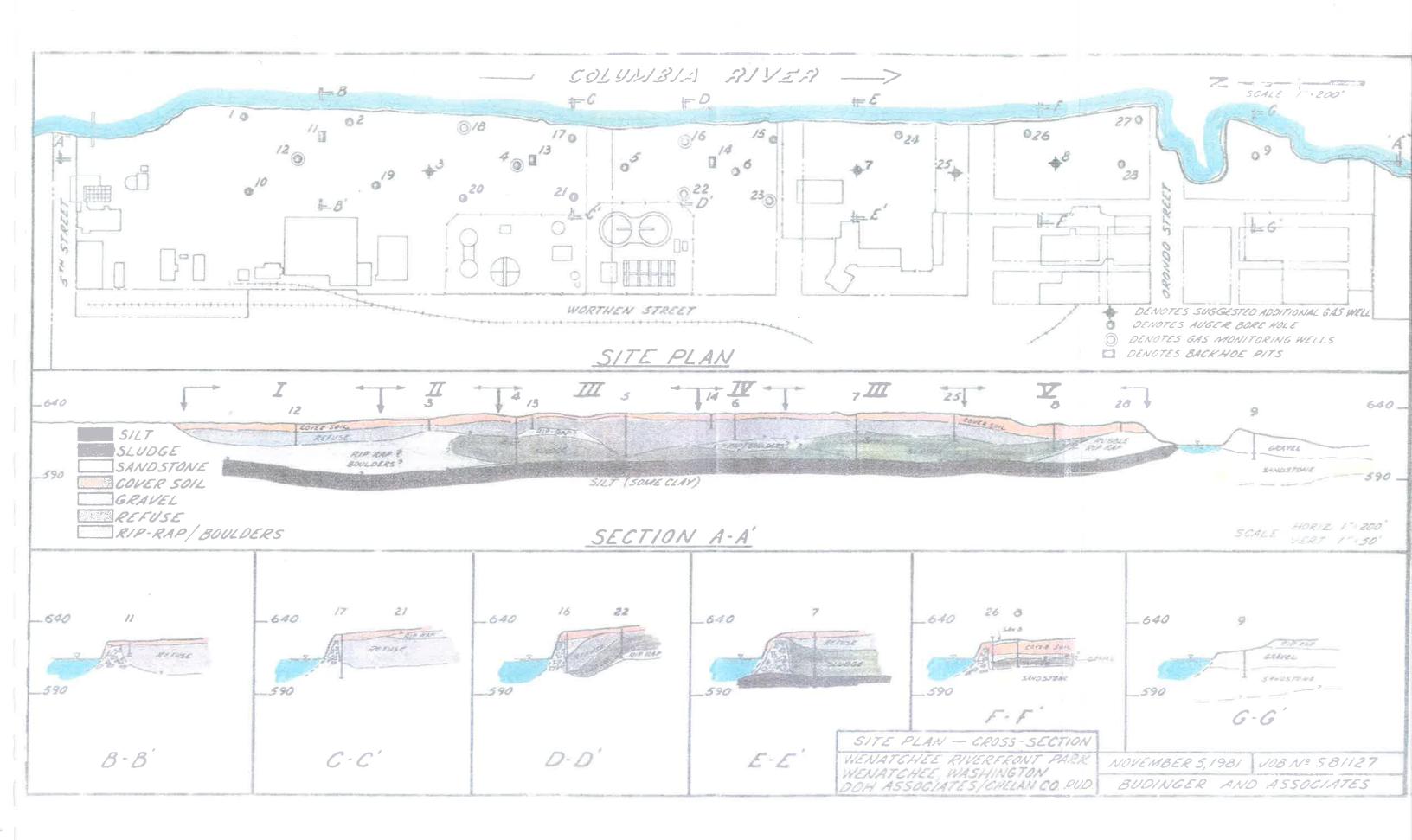
All soils were classified visually from disturbed samples and drill rig response. The resulting descriptions presented on the boring logs are intended to comply with the UNIFIED SOIL CLASSIFICATION SYSTEM.

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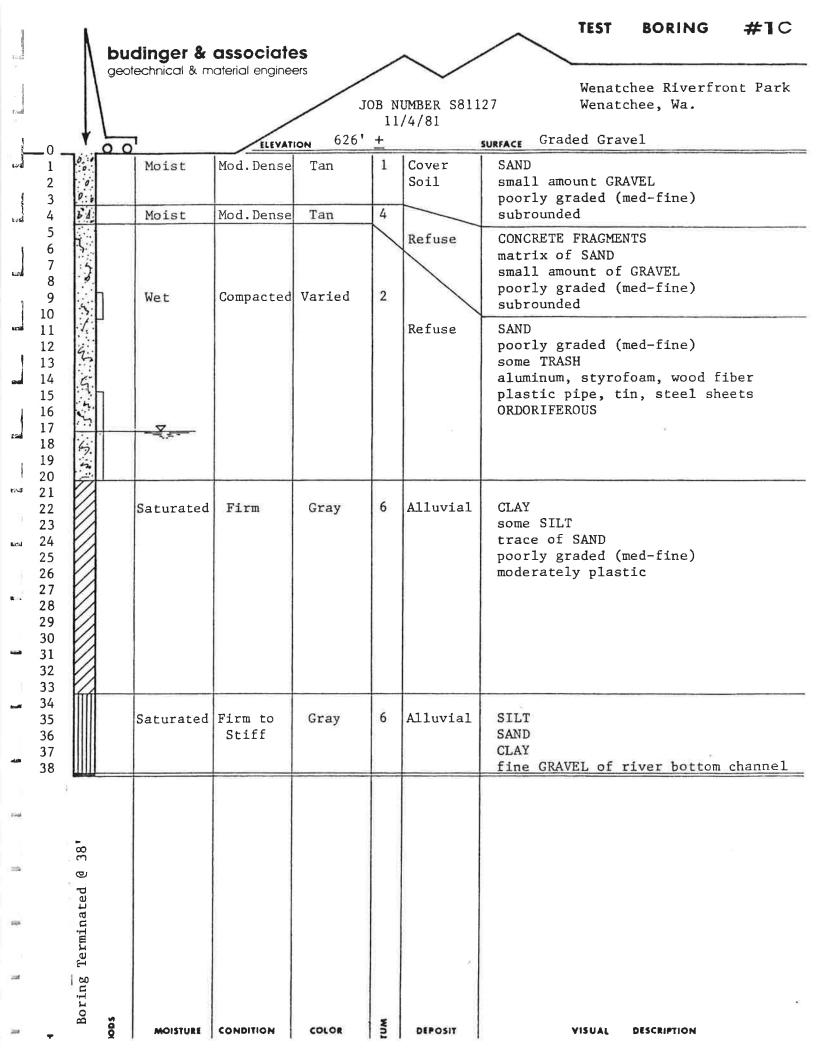
As precise surveying techniques were not employed in the location of test borings, and several borings in a single location were frequently performed, in an attempt to break through cobbles or boulders, locations presented on the site plan should be considered accurate to the nearest 10'. Test borings were located as close to those described by the architect as was logistically feasible.

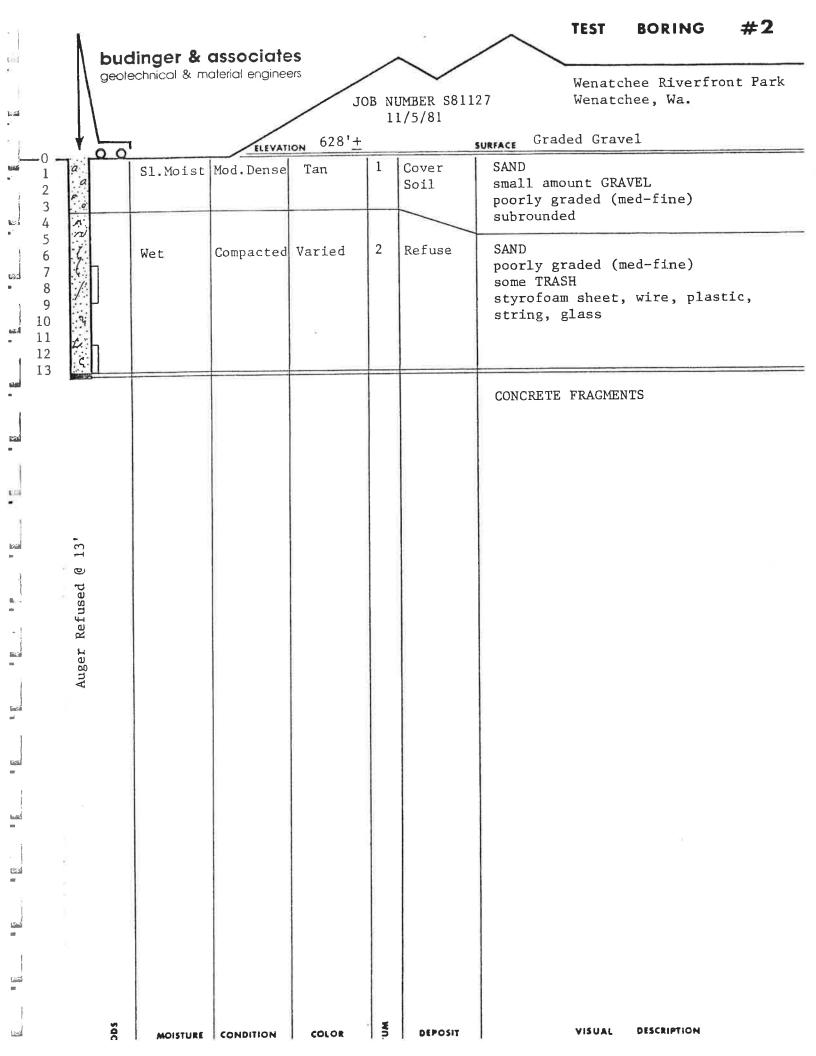
6.5.2 ELEVATIONS

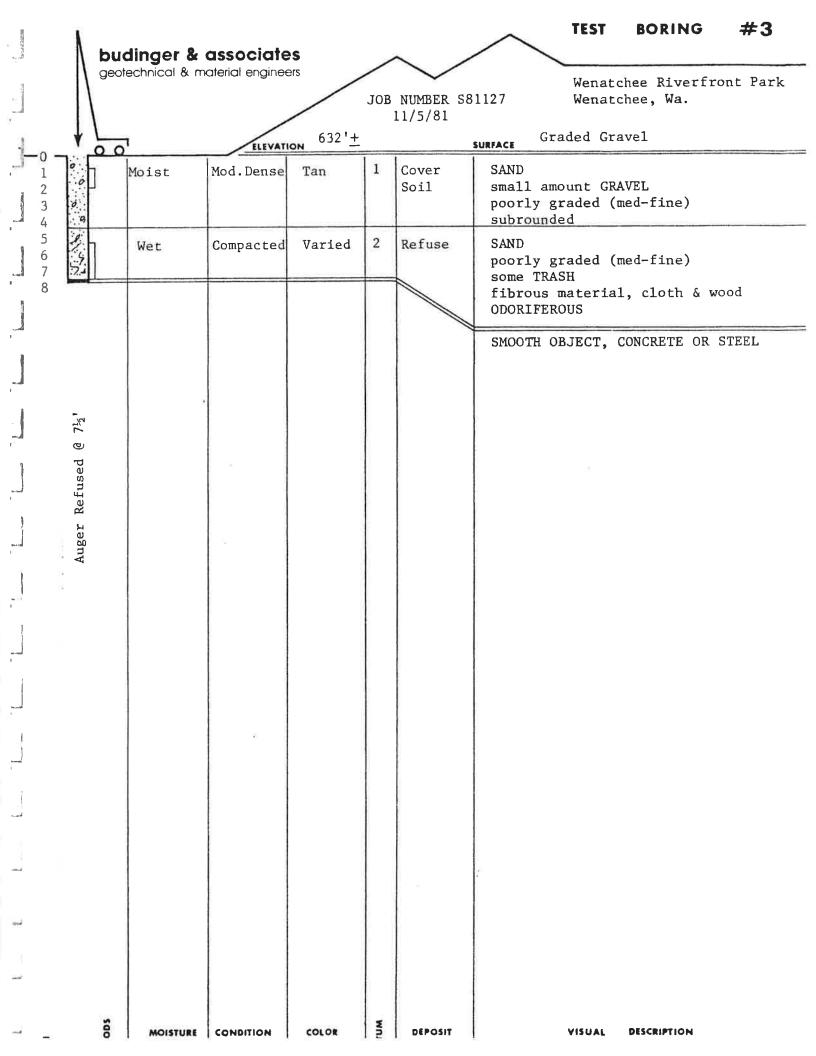
Elevations of the test borings were interpolated from a topographic plan provided by the architect (DOH Associates). As such, boring elevations should be considered accurate to the nearest 1'.

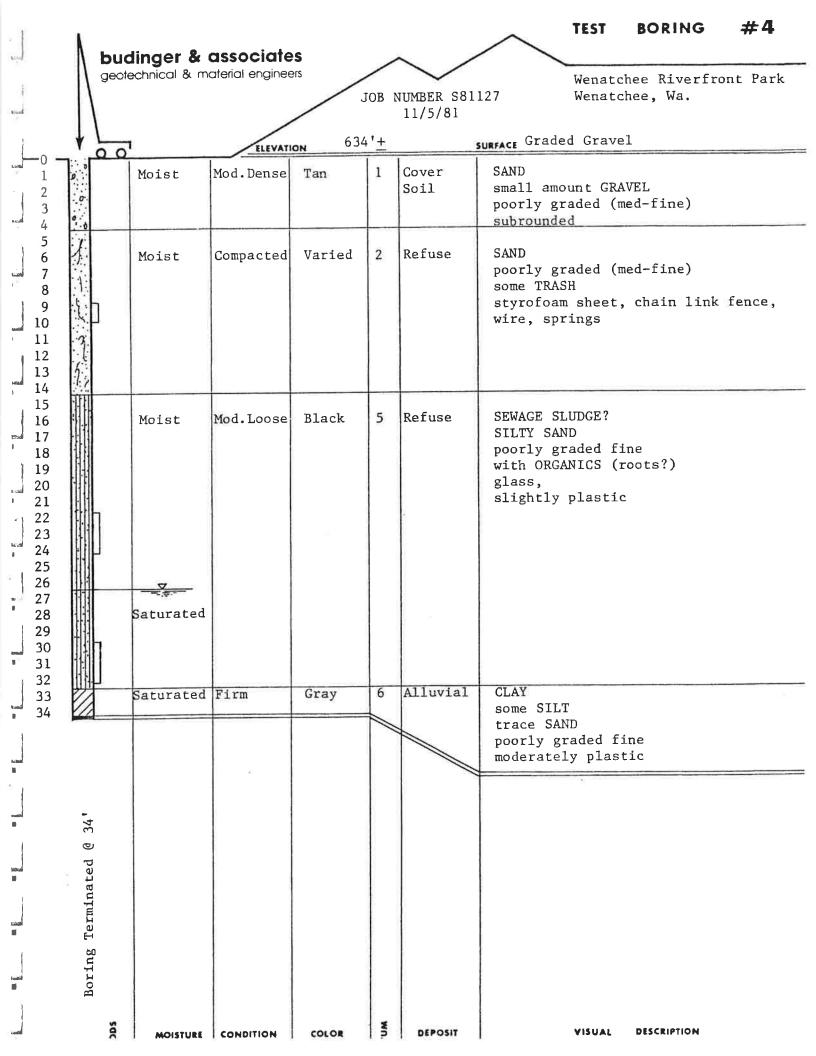


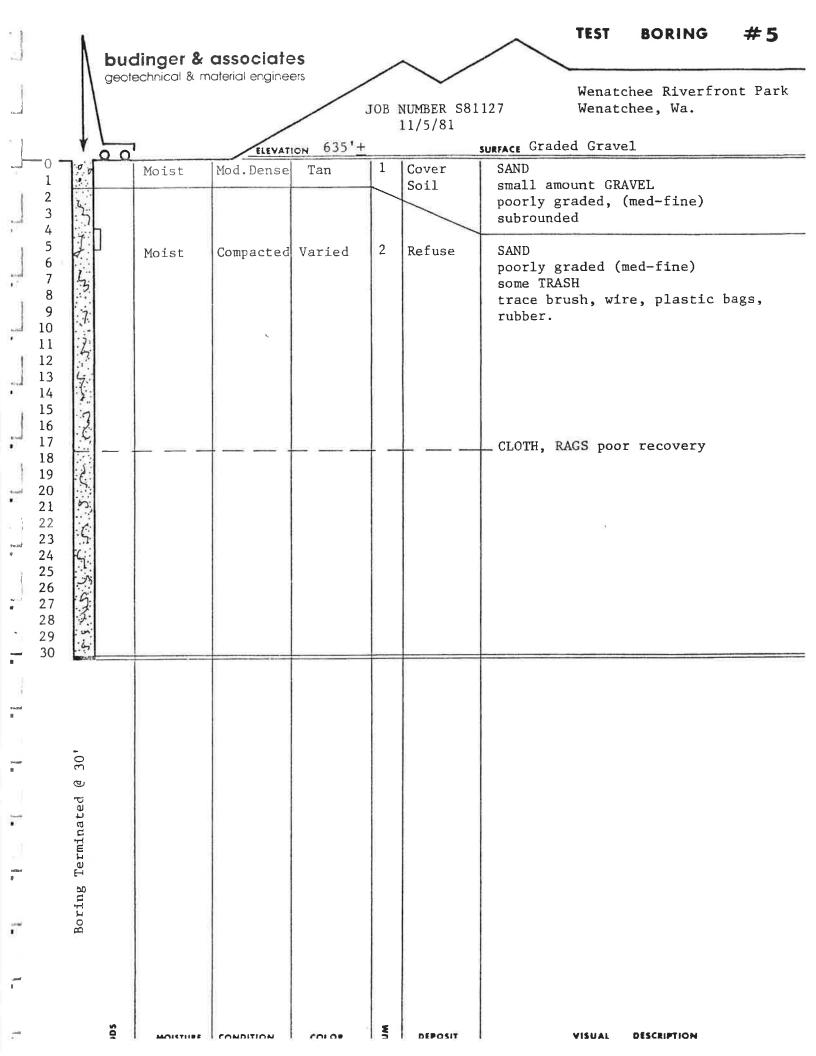
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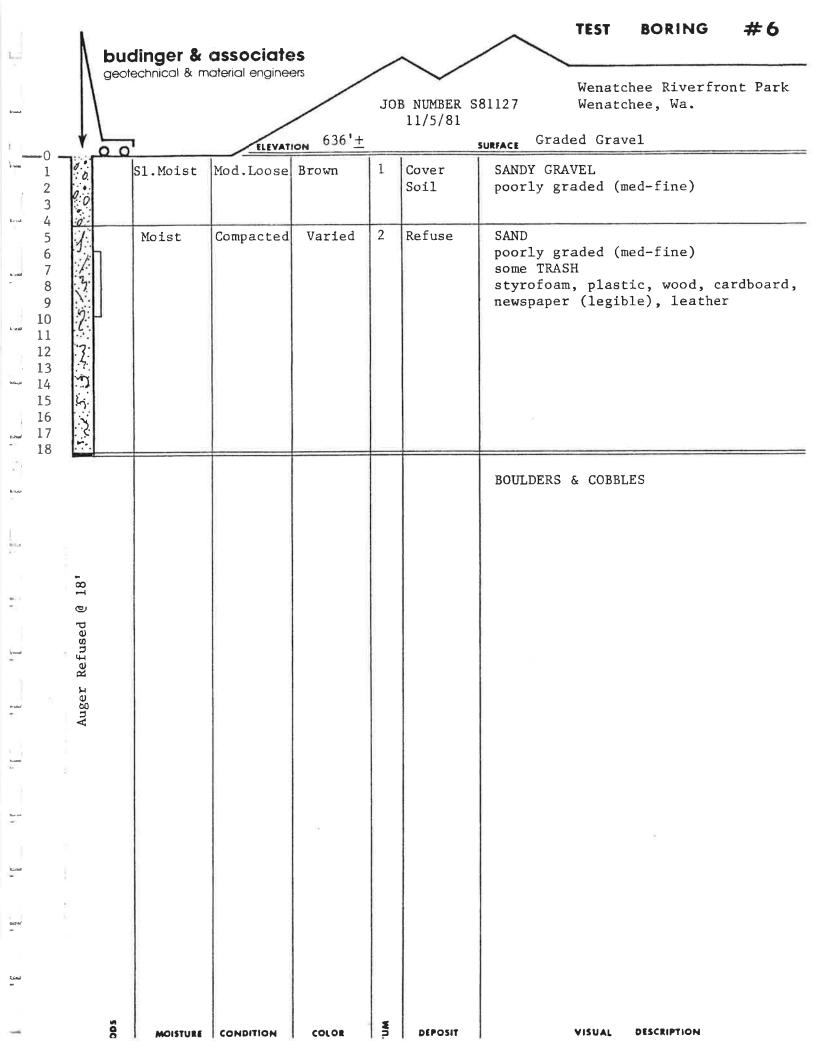


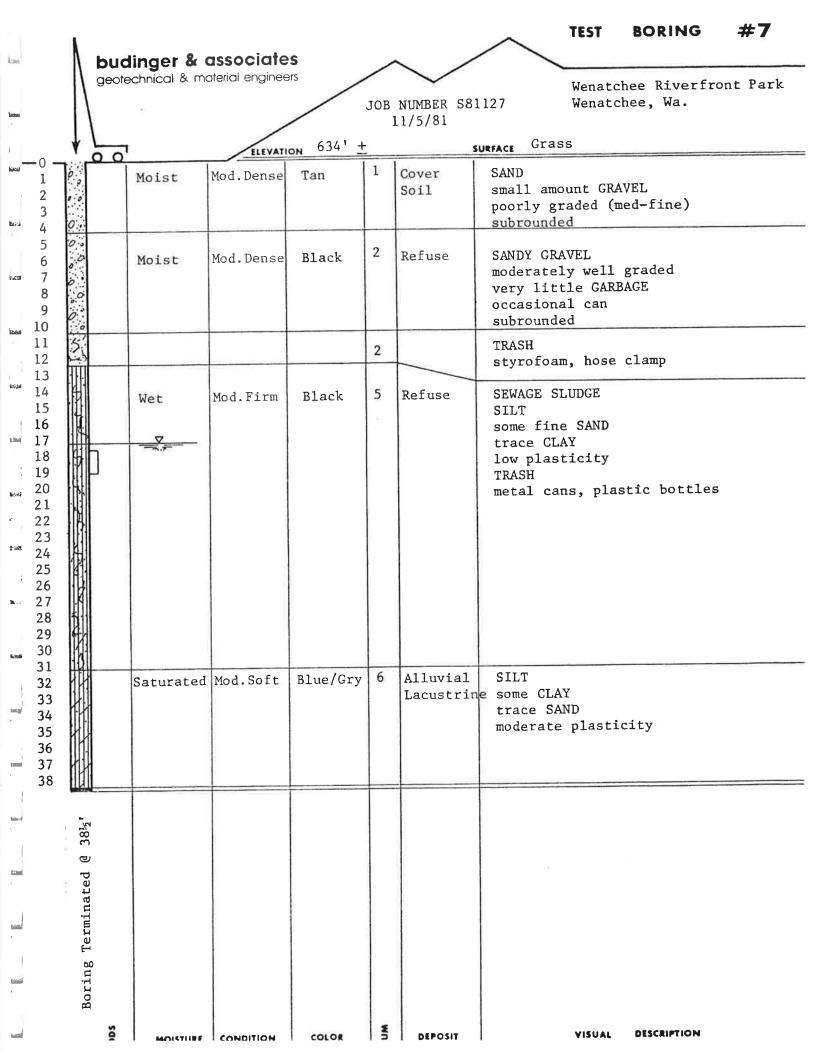


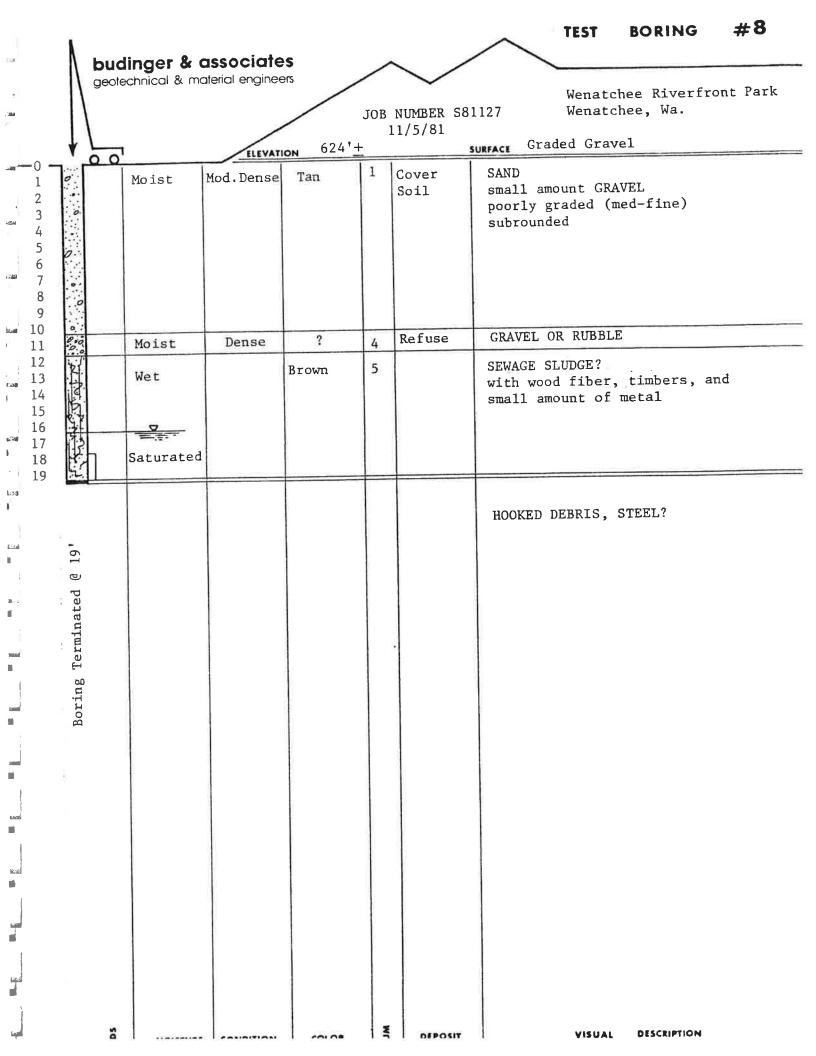


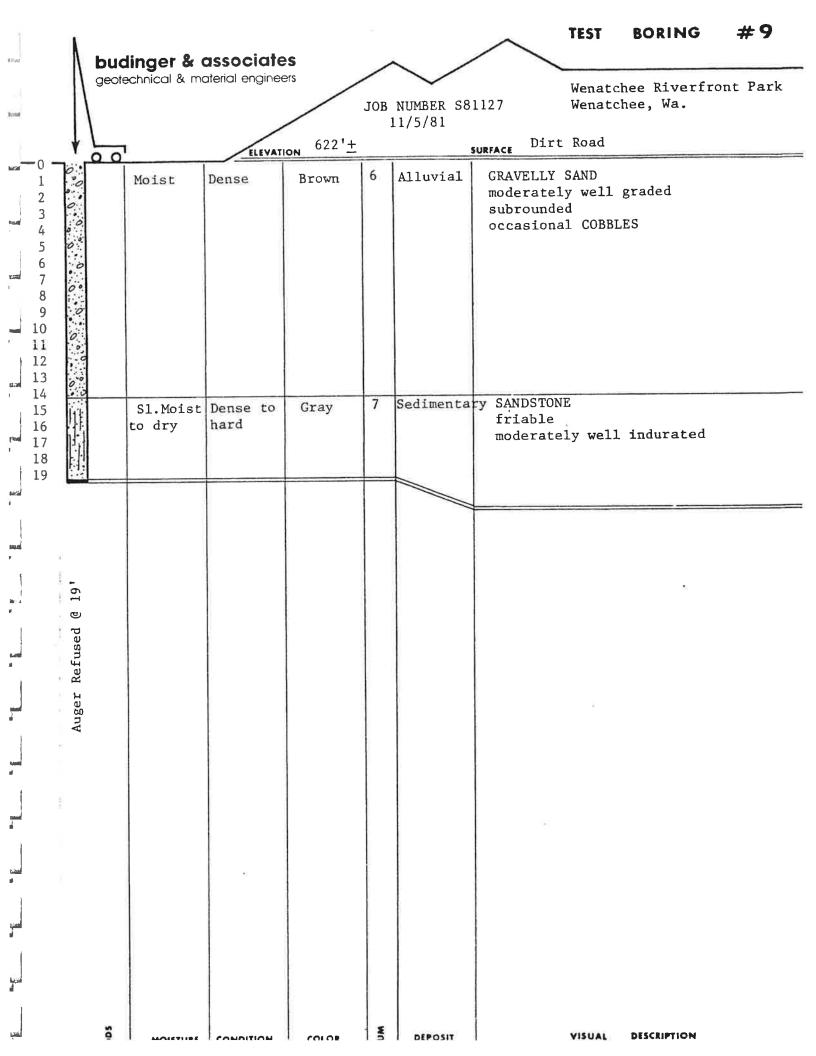


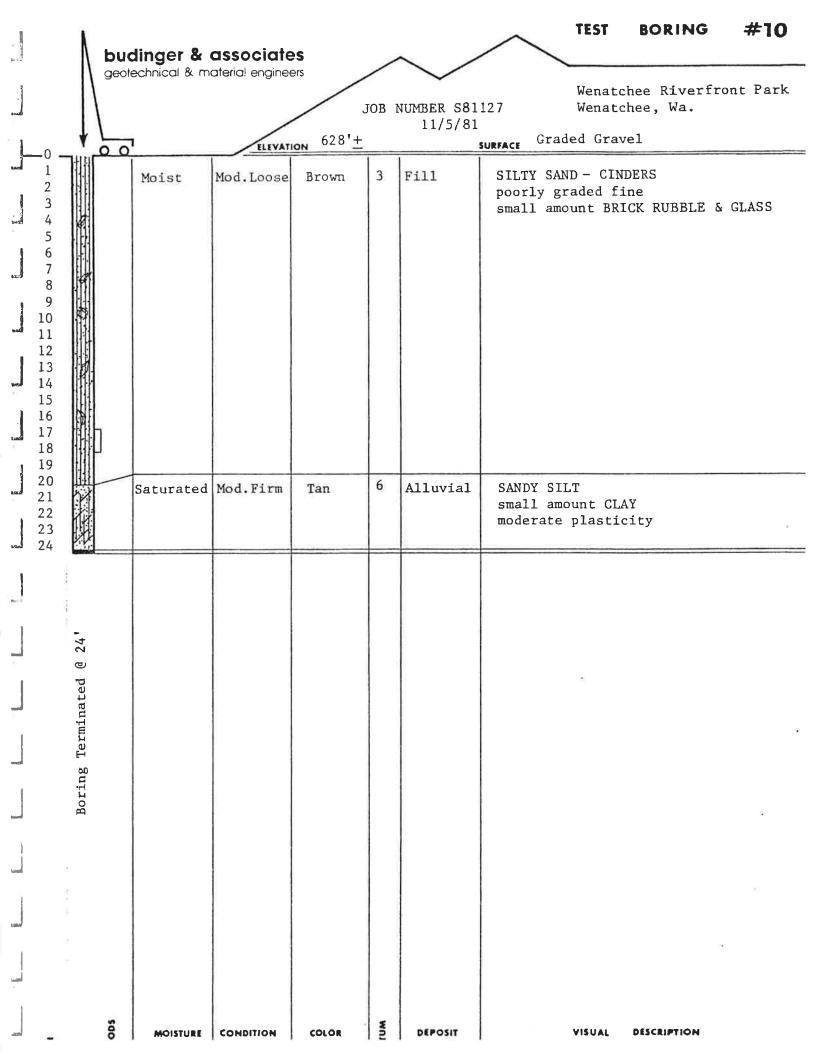


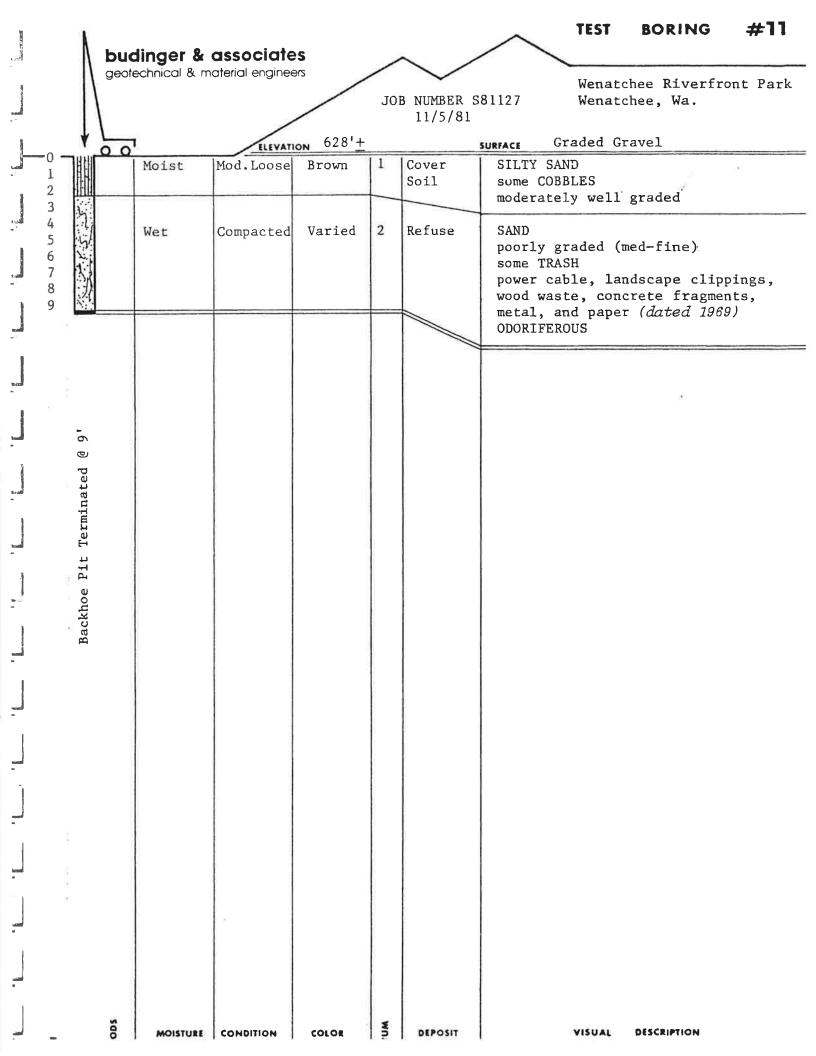


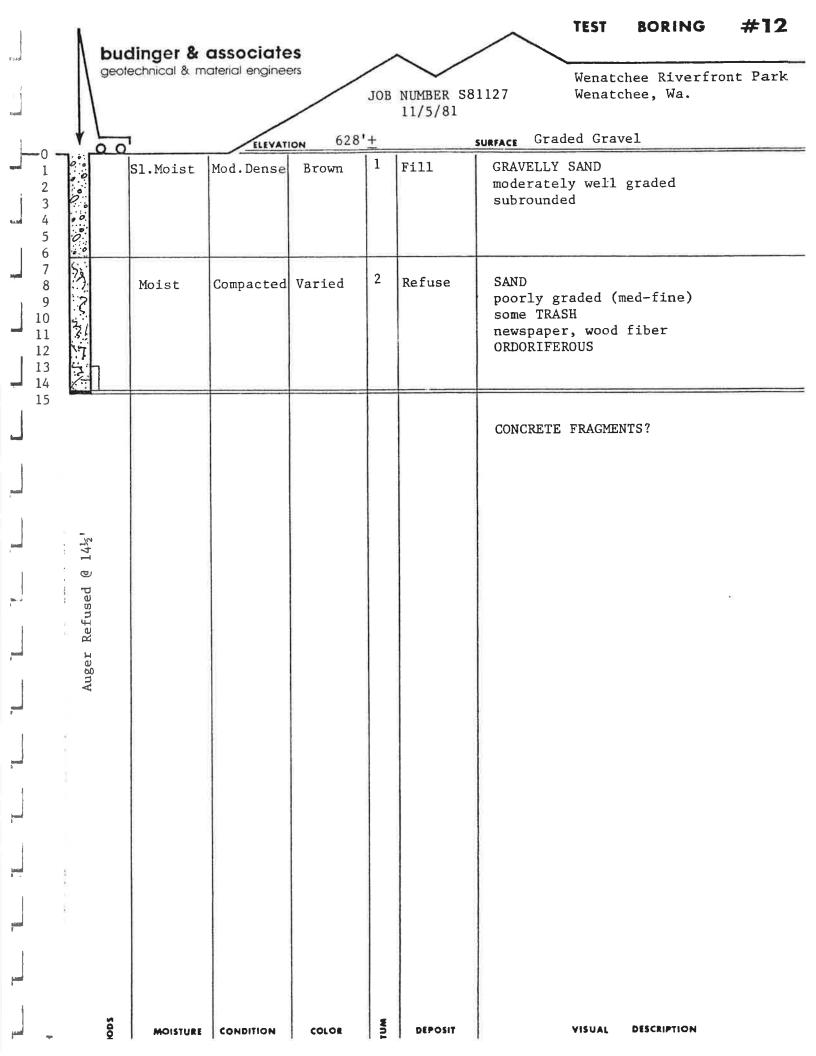


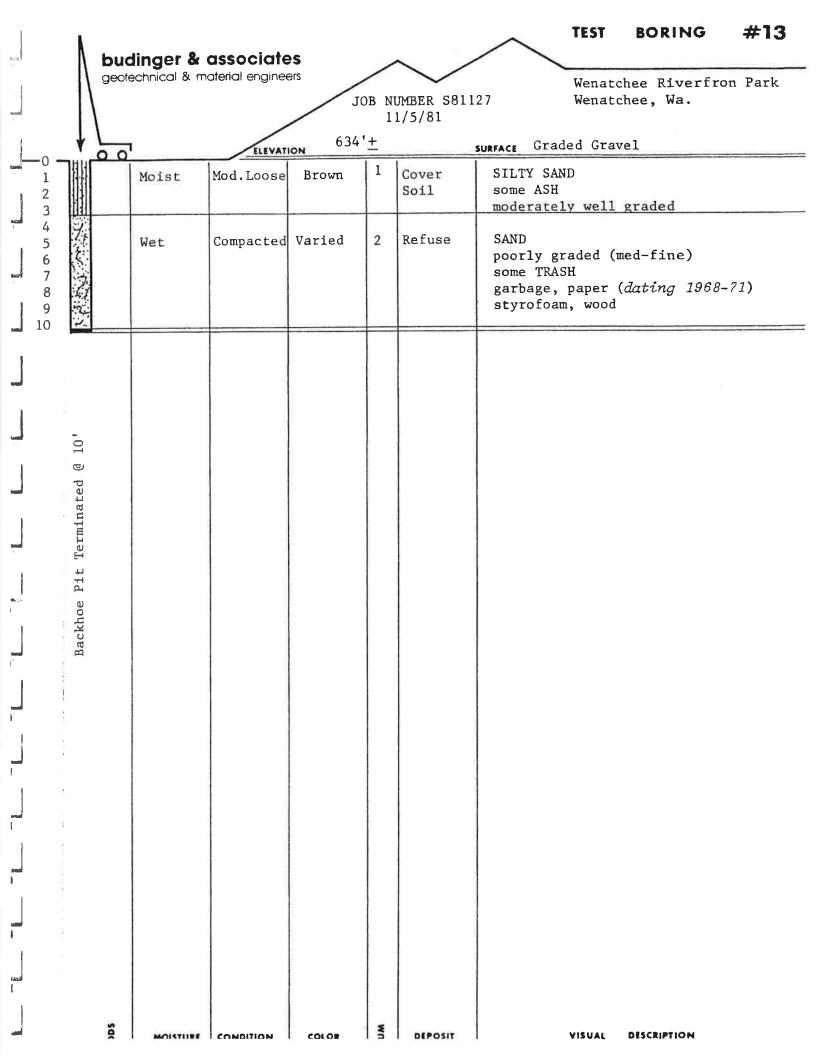


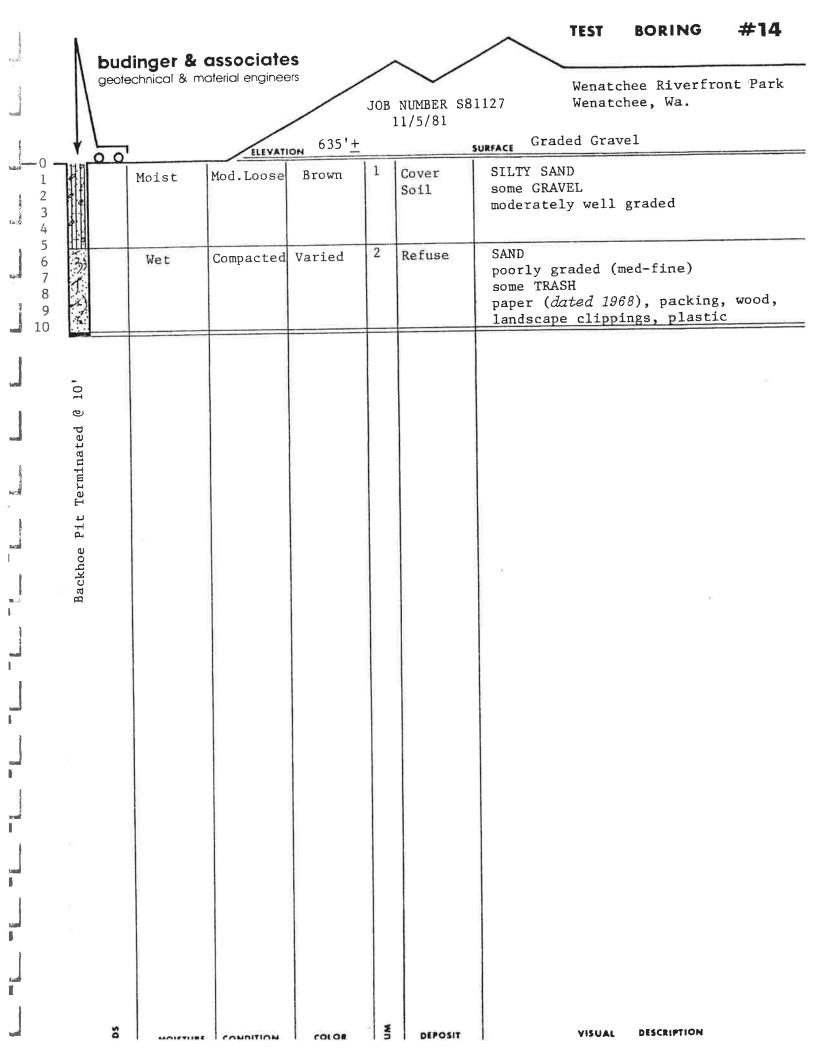




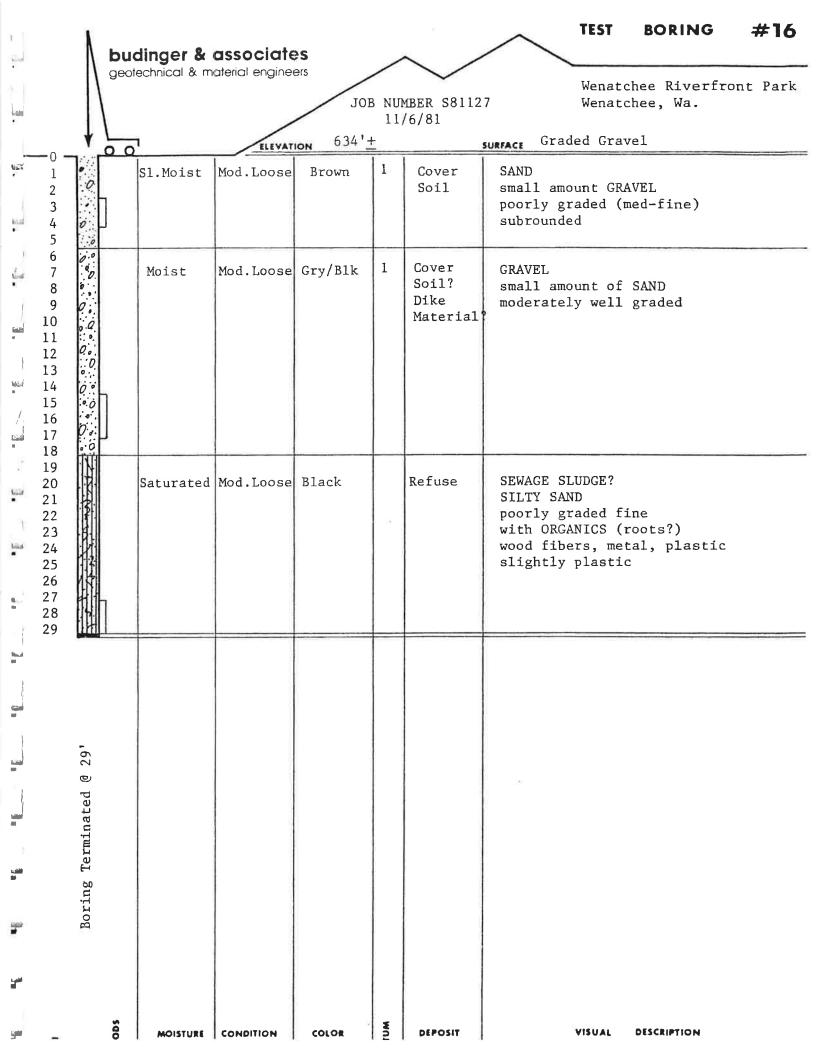




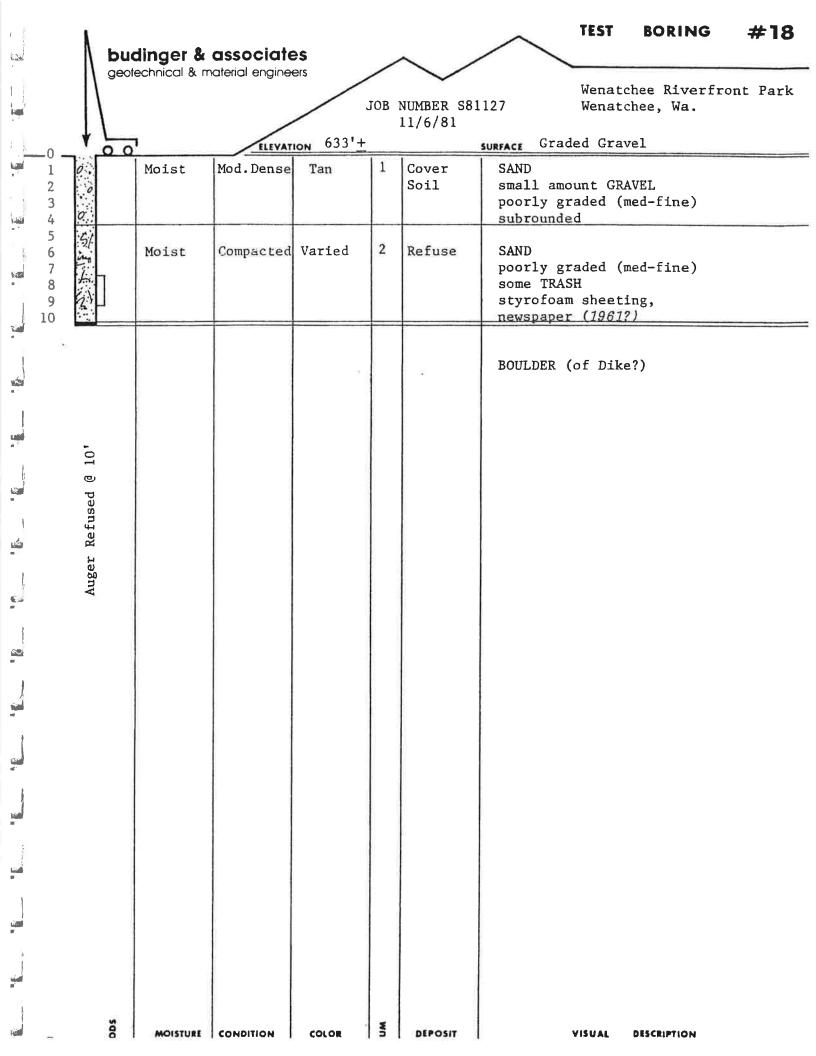




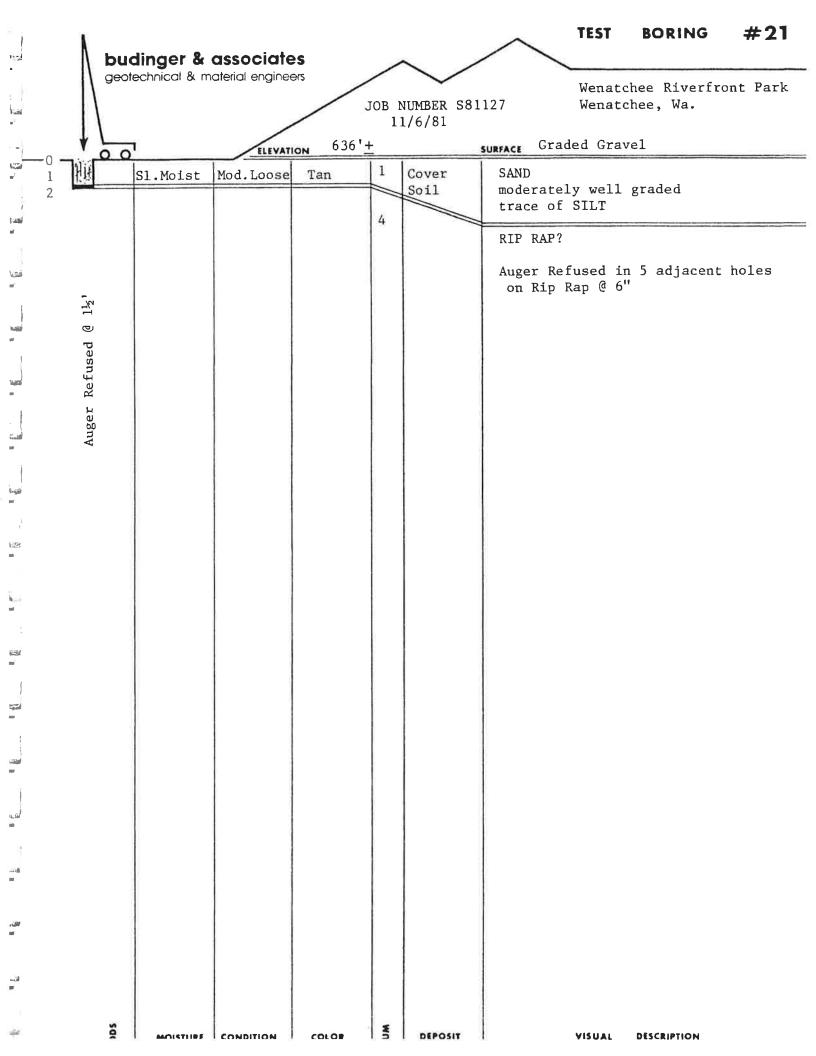
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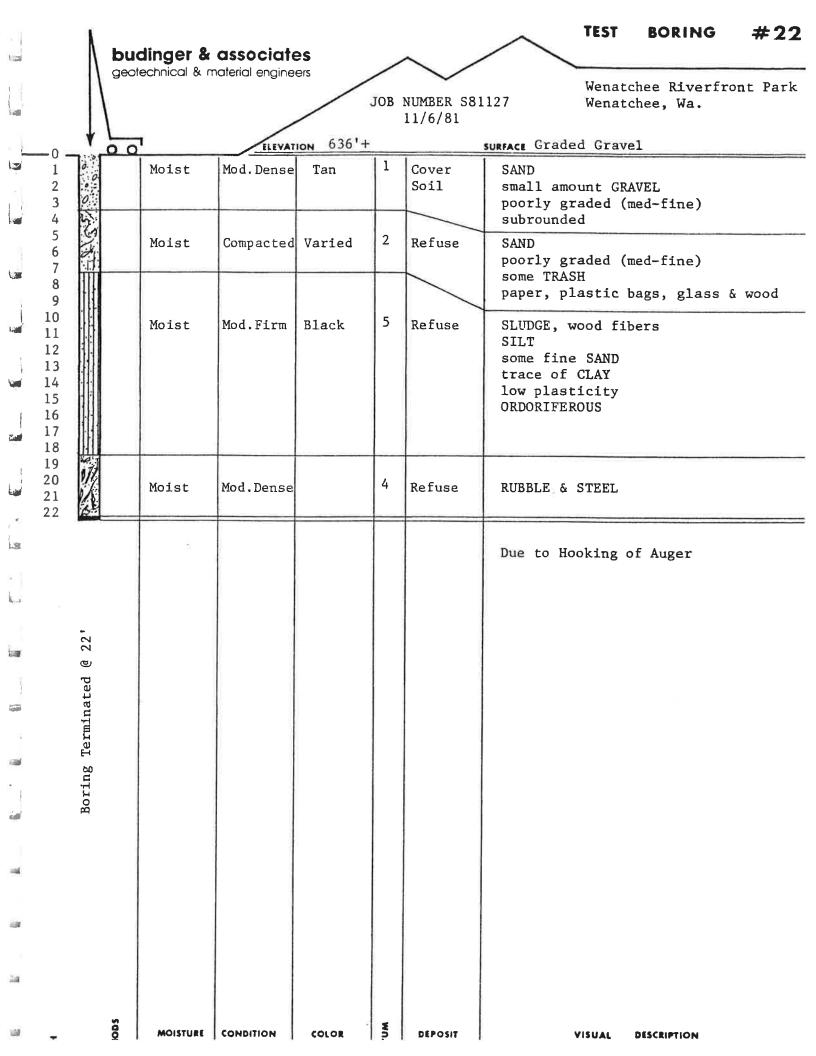


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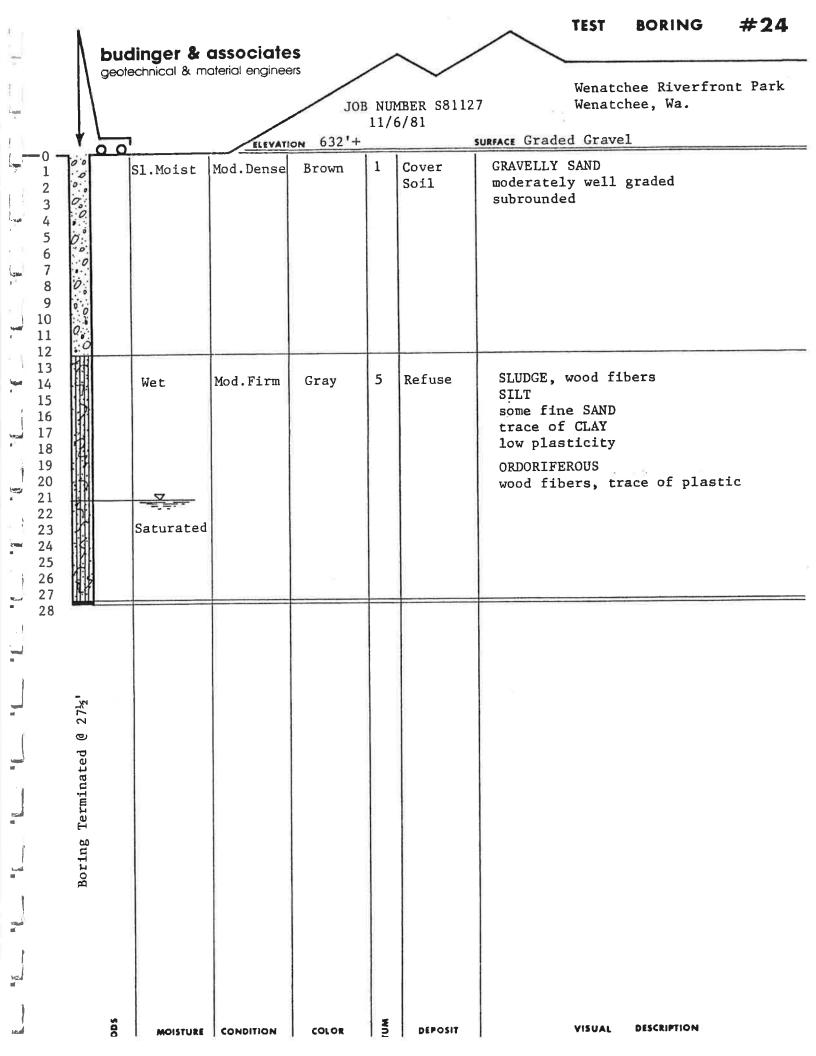


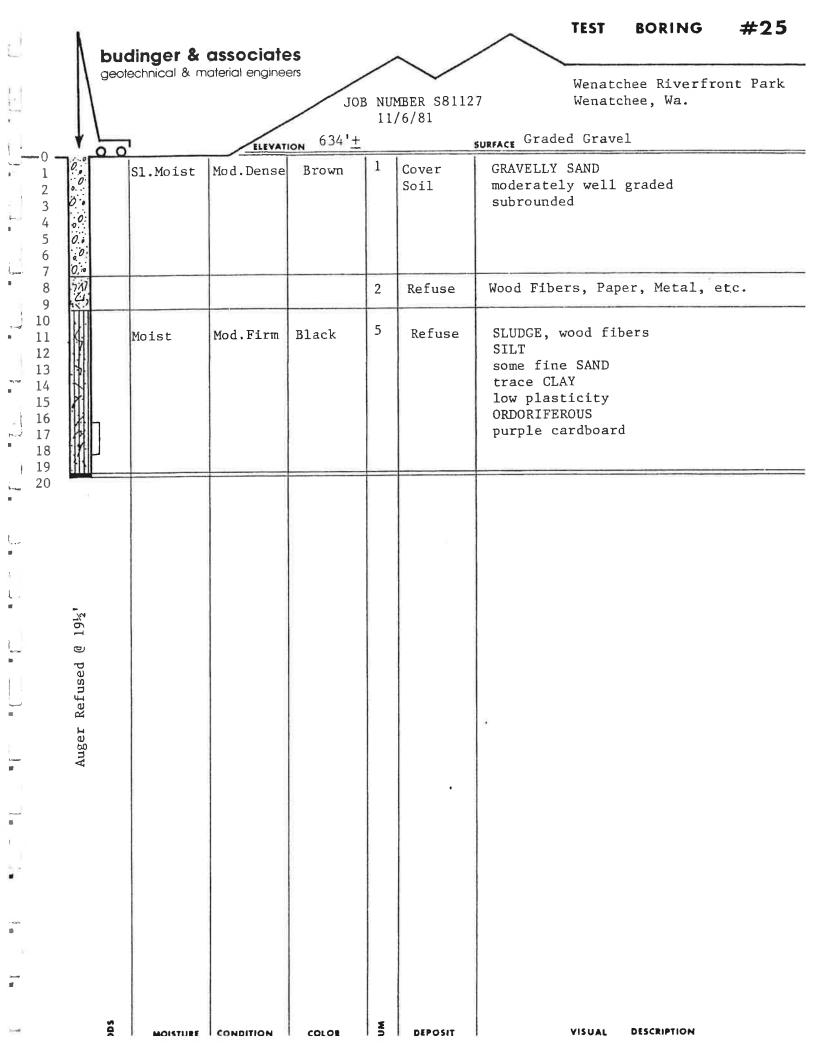
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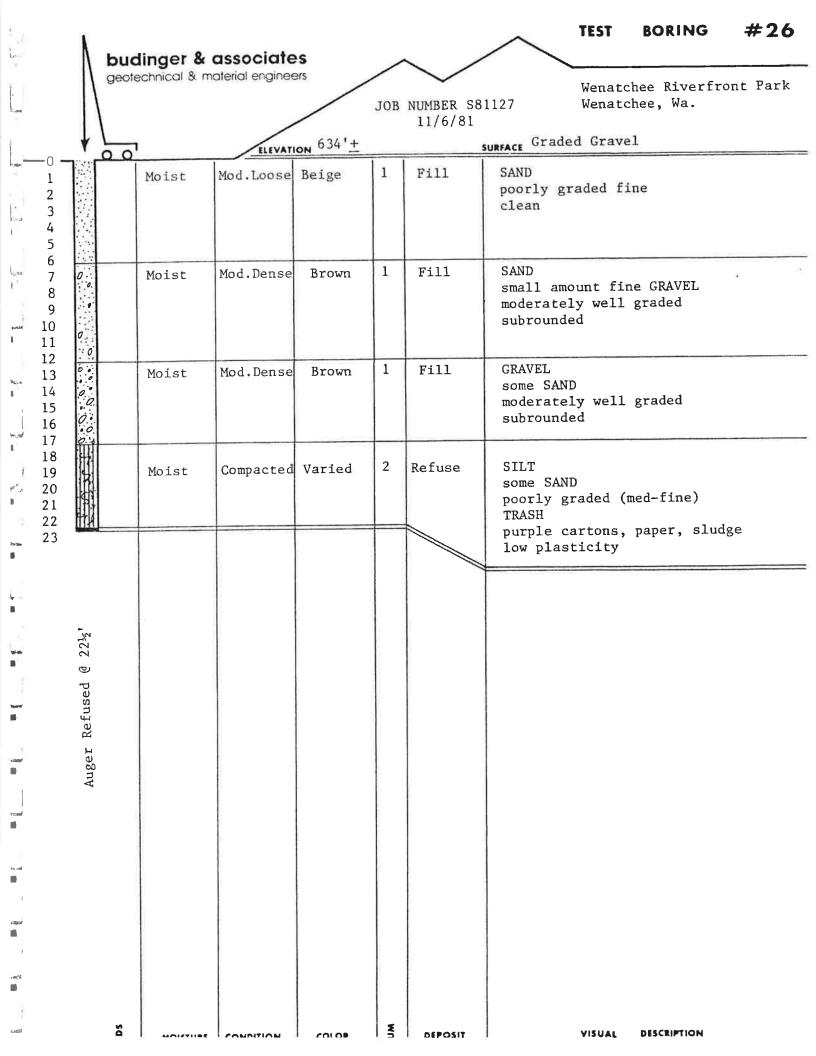


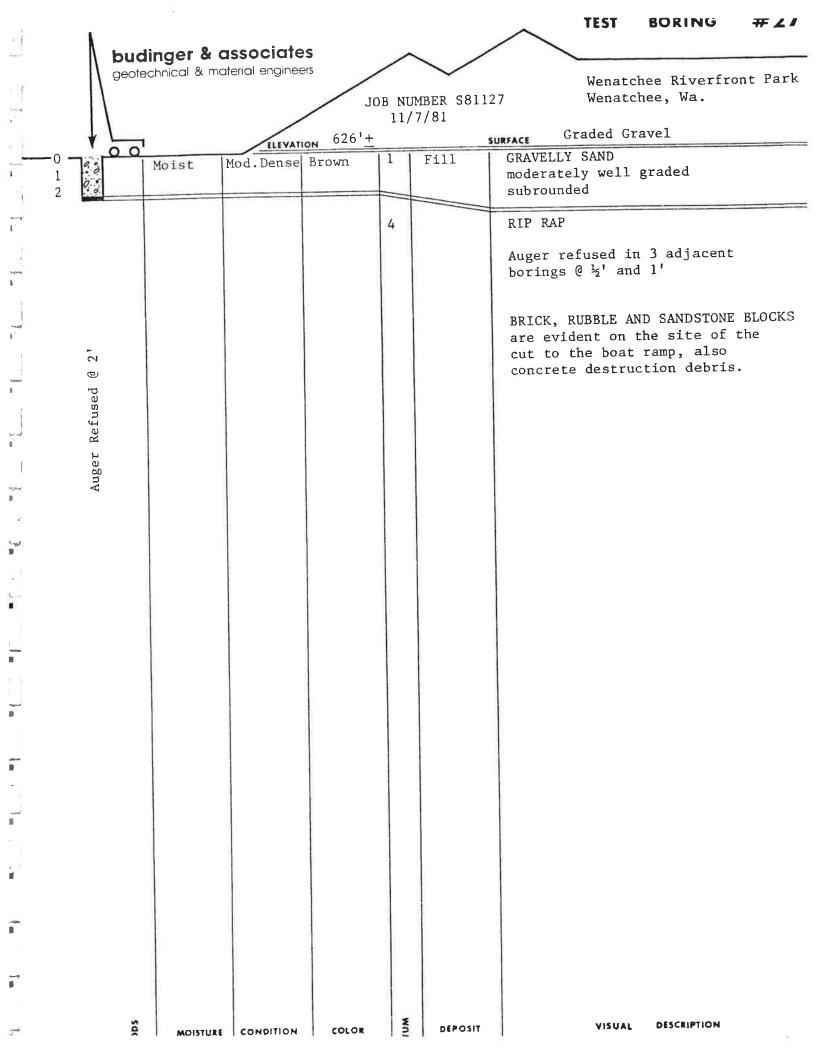


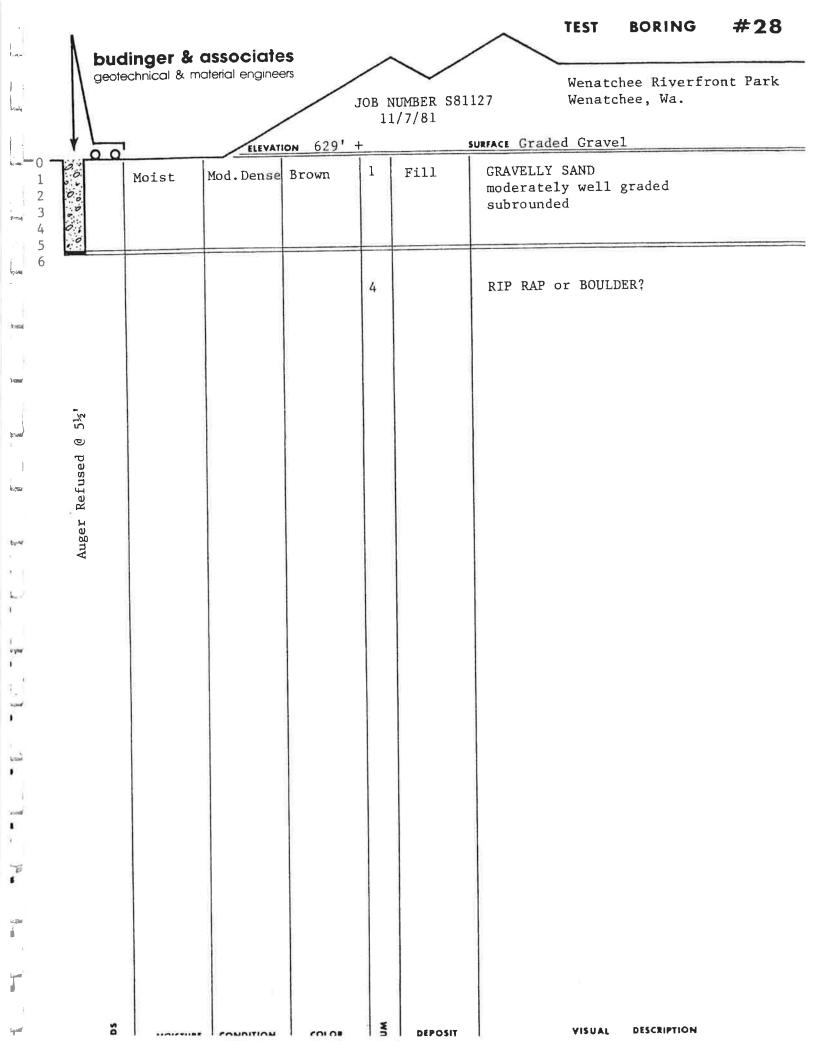
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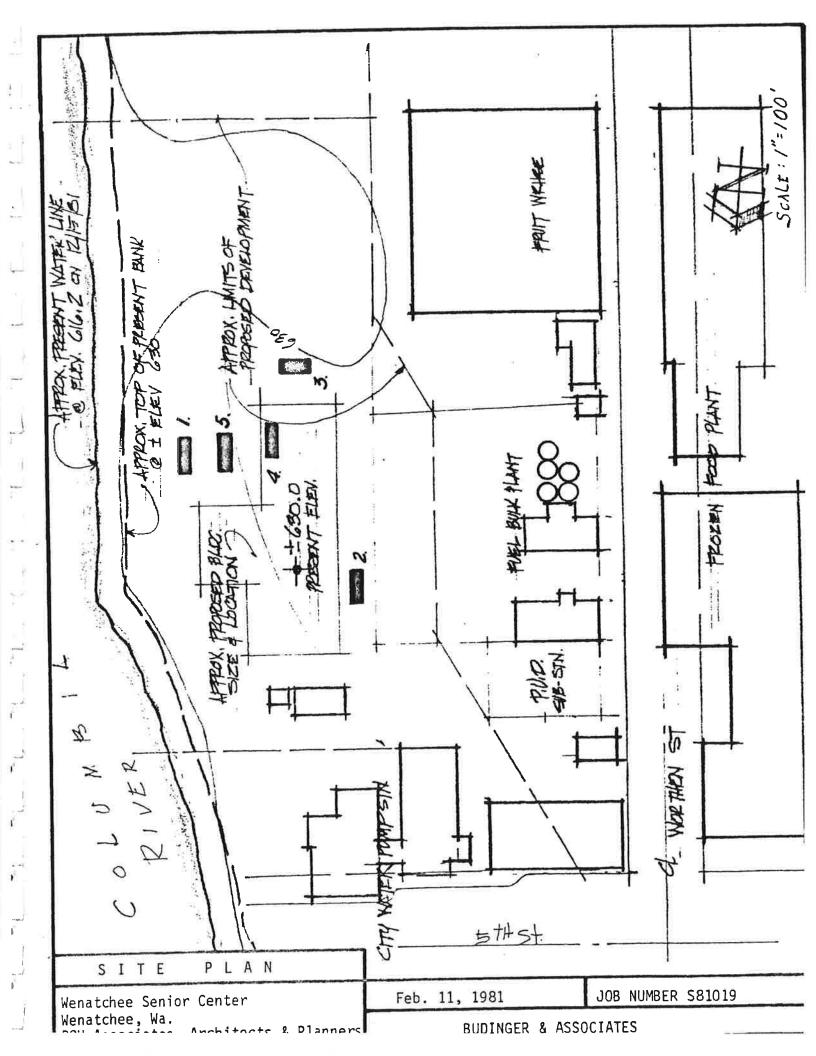




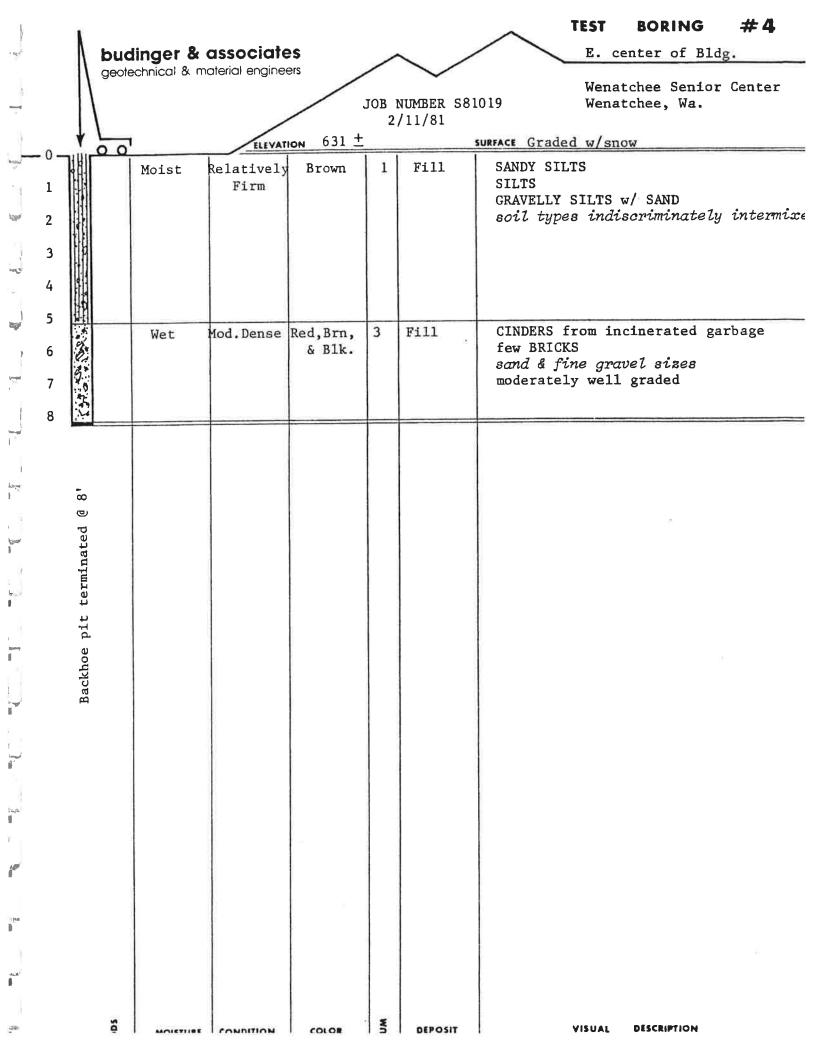


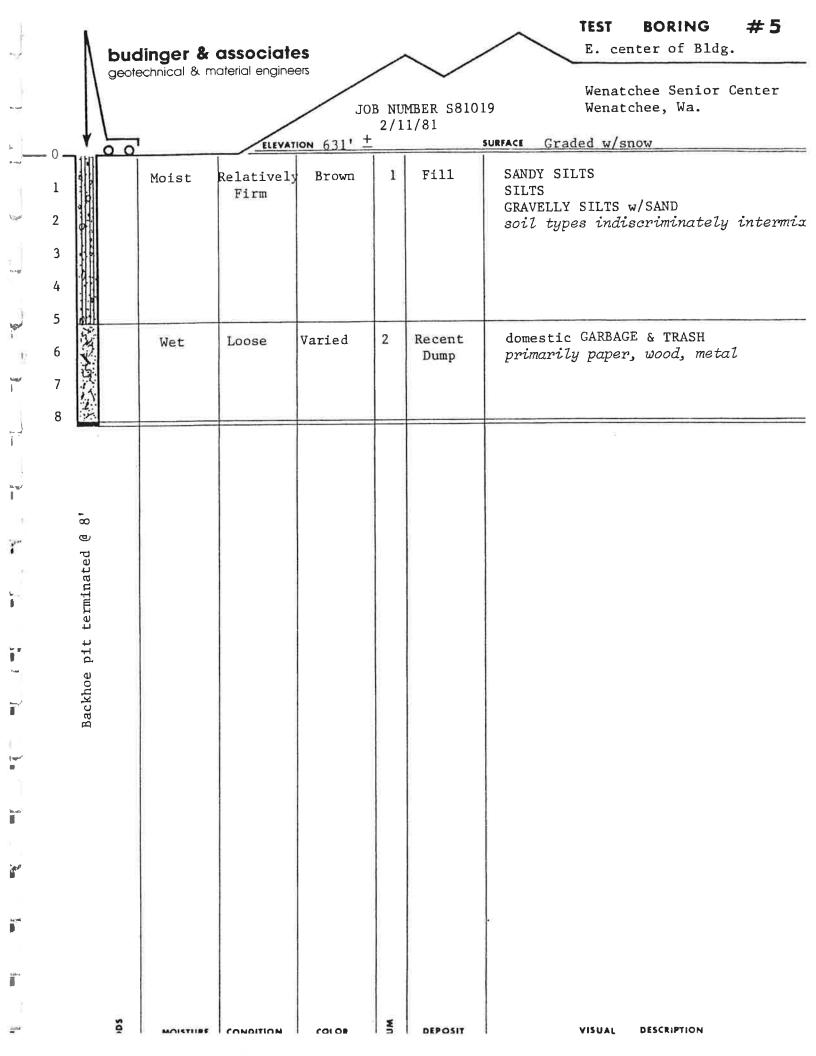






Wet Loose Varied 2 Recent domestic GARBAGE & TRASH primarily paper, wood, metal	1	bu e	dinger & echnical & m	associate	95 ers	/	<u>\</u>	TEST BORING #3 S. end of Building
Moist Relatively Brown 1 Fill SANDY SILTS SILTS GRAVELLY SILTS GRAVELLY SILTS GRAVELLY SILTS GRAVELLY SILTS W/SAND soil types indiscriminately intermited dump dump dump dump dump dump dump dum			•	/	621.1	2/		Wenatchee, Wa.
Net Loose Varied 2 Recent dump domestic GARBAGE & TRASH primarily paper, wood, metal appropriate the second	2 3	0 0	1	Relatively	ī	1	Fill	SANDY SILTS SILTS
Backhoe pit terminated @ 9'	6 7 8 A.		Wet	Loose	Varied	2		
MOISTURE CONDITION COLOR 15 DEPOSIT VISUAL DESCRIPTION	pit terminated @ 9'	SQ	MOISTURE	CONDITION	COLOR	WA	DEPOSIT	VISUAL DESCRIPTION





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Α	В	0	R	Α	T	0	R	Υ	I	N	٧	Ł	2	- 1	I	G	А	1	Ţ	U	N	

7.1.1 MOISTURE CONTENT

ASTM D2216

Moisture content was determined for disturbed samples representing the silty sand cover soil and are presented as a percentage of dry weight, as is the convention in geotechnical analyses.

7.1.2 DIRECT SHEAR_____

ASTM D3080

Direct shear strength was determined for a sample representing Stratum 1. Due to the disturbance of surface samples, a remolded test was performed. The test was conducted by the consolidated-underained method, with strain controlled under submerged conditions. The failure envelope was developed from the average of 3 points, sheared at normal stresses of 1, 2, and 3 ksf. The stress/strain curve is plotted for each point and presented graphically together with the Mohr-Coulomb shear envelope. It should be noted, that re-molded shear tests will yield slightly higher results for non-cohesive soils.

7.1.3 GRADATION_____

ASTM D421 & 422

Samples representing Stratum 1 were subjected to mechanical sieve and hydrometer analyses to determine their coarse and fine-grained particle size distributions respectively. The results present the percentage of each sample passing (smaller than), individual U.S. Sieve Sizes, or particle diameters, by dry weight. U.S. Sieve Sizes represent either nominal particle diameter, or meshes per inch. Particle sizes are also presented in metric units.

turned.		A r	CTM	E 7 0
7.1.4	- 11	- A.	2 I M	E70
/ . 1 . 4	DH			

Strata 1 & 2 materials were tested to determine their pH for evaluation for corrosive and vegatative impact potential. the pH is presented on the laboratory summary, based on a 14 point scale (1 acid - 14 base), with 7.0 representing neutral.

7.2.1 SOLID WASTE MOISTURE CONTENT_____

Standard Method

Moisture content for solid waste materials was determined in accordance with standard methods. Samples were subjected to moderate heat $(76\,^{\circ}\text{C})$ until their weight remained consistent. Moisture contents for solid waste are presented as a percentage of total initial (moist) weight.

Standard Method

Volatile solids content was determined for selected samples representing Stratum 2. These samples were fluxed at a temperature of 600°C for a period of 1 hour, after which, they were placed in a dessicator and allowed to cool for 24 hours. Volatile solids are represented on the laboratory summary as a percentage of initial dry weight lost through firing.

	SUMMARY O	F LABORATORY RE	SULTS	
		SOILS		
BORING # DEPTH	3 1' 2'	16 3' 4'	19 2' 3'	28 3' 4'
ELEVATION STRATUM	631' 1	631'	628' 1	626' 1
MOISTURE (%) pH	9.1 7.5	23.0 7.1	4.8 7.8	7.9 7.6
INTERNAL FRICTION (Ø) COHESION (C)				42° O psf
VOLATILE SOLIDS BY DRY WEIGHT SULPHUR (ppm) NITROGEN #/acre PHOSPHORUS(ppm) POTASSIUM (ppm) CALCIUM meq/100g SOLUABLE SALTS mmhos/cm	15 14 24 398 15.3	21 7 10 106 10.7	11 18 10 125 26.4	15 51 16 217 15.6
3/4" 1/2 3/8 #4 10 16 30 40 90 100 .005 .001	100% 98 97 87 78 73 64 60 44 33 30 14 10 3		100% 95 88 80 70 65 56 52 39 29 26 16 12 5	100% 97 95 89 82 78 71 66 51 42 25 12 8
UNIFIED SOIL CLASSIFICATION	SP		SP	SP

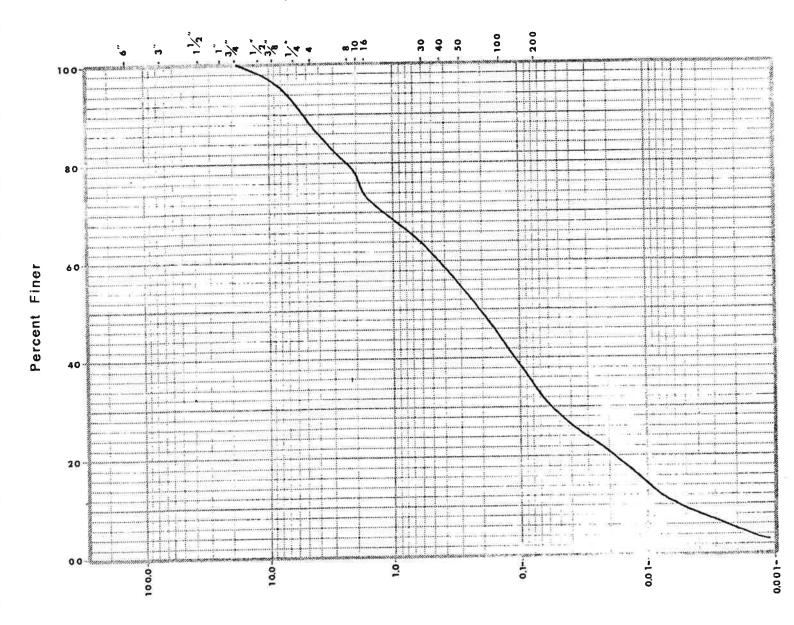
			SUMM	ARY OF I	LABORAT	ORY RES	SULTS				
BORING # DEPTH	5 compo- site	5 41 51	6 6 10'	3 5½' 7'	18 8' 10'	19 8' 9'	2 7' 9'	1c 9' 10	4 9' 10'	23 13' 14'	2 12' 13'
ELEVATION	631'	626'	626'	626'	625'	622'	621'	621'	621'	621'	620'
STRATUM	2	2	2	2	2	2	2	2	2	2	2
MOISTURE(%)	23.0	13.1	14.8	23.5	11.5	16.4	9.3	5.7	15.3	36.2	12.0
рН	7.4					7.7	7.8				
VOLATILE SOLIDS BY DRY WEIGHT	.d	6.8	17.6	31.1			*	3.1	7.1	23.5	7.4

			SUMM	MARY OF	LABORAT	ORY RES	SULTS				
BORING #	16 15'	25 16'	15 15'	1c 15'	12 12'	22'	10 17'	16 27'	7 18'	8 18'	4 30' 32'
STRATUM	17' 2	18'	20'	20'	2	24' 5	18' 3	29'	19'	19'	5
MOISTURE (%)	8.0	32.6	47.3	10.6	19.4	21.9	19.6	15.9	17.4	44.1	41.2
рН	7.5		6.0			7.5		7.3			7.6
VOLATILE SOLIDS BY DRY WEIGHT					3.8		7.7		6.9	17.6	

GRAIN SIZE DISTRIBUTION

						THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	
	COARSE	FINE	COARSE	MEDIUM	FINE		
COBBLE	GF	RAVEL	1	SAND		SILT	CLAY

U.S. STANDARD SIEVE SIZES

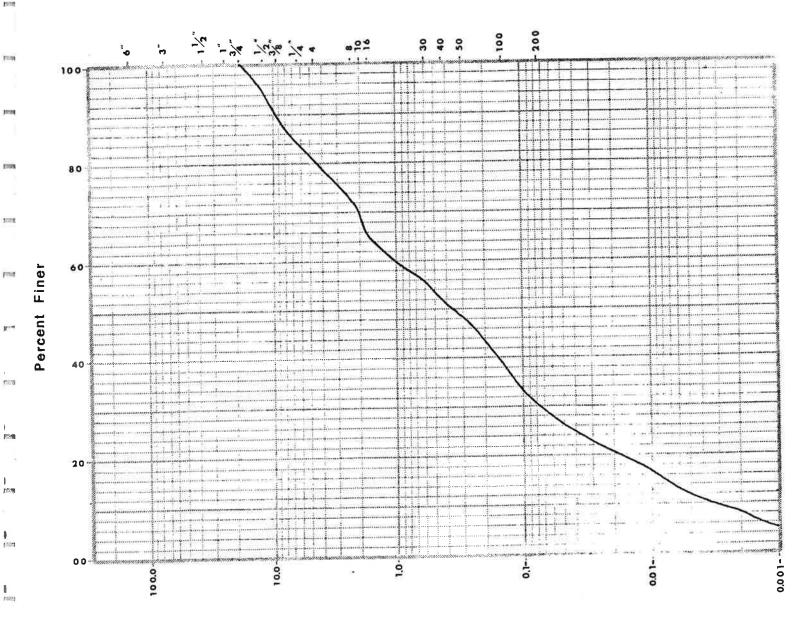


Grain Diameter / m.m.

GRAIN SIZE DISTRIBUTION

			G/1//	WORKS.			
-	COARSE	FINE	COARSE	MEDIUM	FINE		
COBBLE	GF	RAVEL	1 '	SAND	•	SILT	CLAY

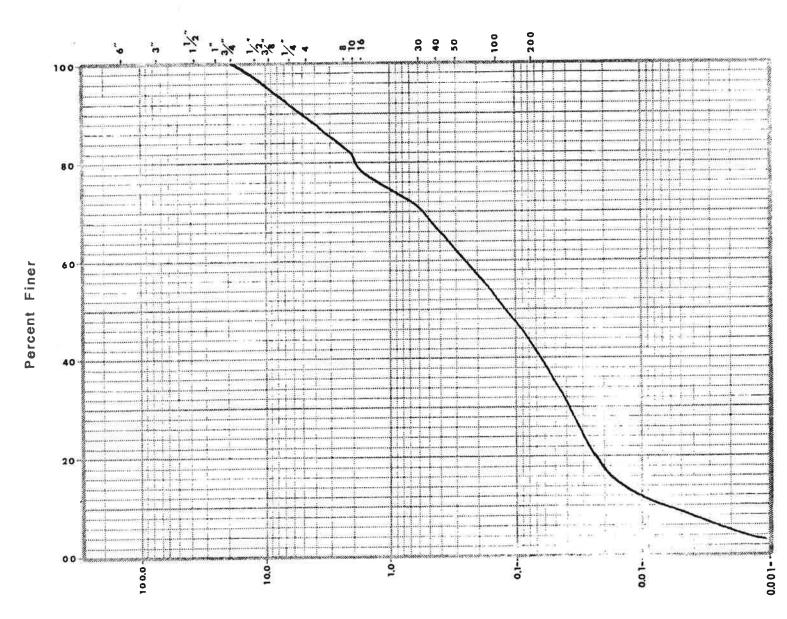
U.S. STANDARD SIEVE SIZES



Grain Diameter / m.m.

			GRAIN SIZ	E DISTRIB	UTION	JOB NUMBE	R S81127
COBBLE	COARSE	RAVEL	COARSE	SAND	FINE	SILT	CLAY

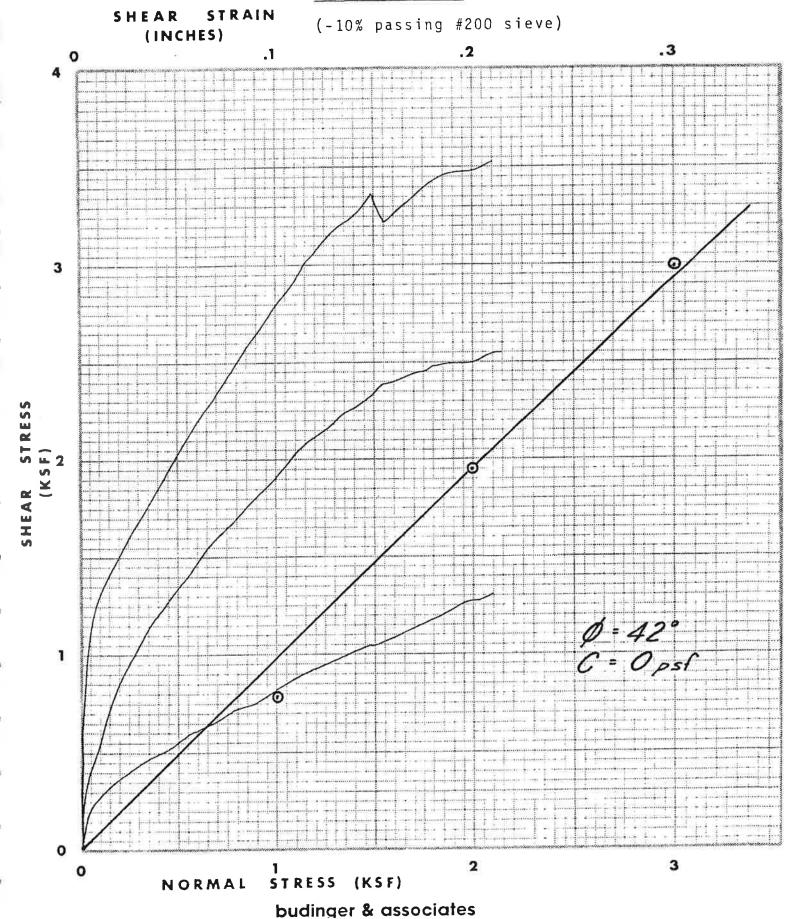
U.S. STANDARD SIEVE SIZES



Grain Diameter / m.m.

BORING #28 DEPTH 3'-4' JOB NUMBER S8112

RE-MOLDED SHEAR



Wenatchee Landfill Targeted Brownfields Assessment Report Wenatchee, Washington TDD: 98-11-0007

Contract: 68-W6-0008 June 2000

Region 10

START

Superfund Technical Assessment and Response Team

Submitted To: Joanne LaBaw, Task Monitor
United States Environmental Protection Agency
1200 Sixth Avenue
Seattle, WA 98101

WENATCHEE LANDFILL TARGETED BROWNFIELDS ASSESSMENT REPORT WENATCHEE, WASHINGTON

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LIST OF ACRONYMS

Acronym <u>Definition</u>

bgs below ground surface

CFR Code of Federal Regulations

CLARC Cleanup Levels and Risk Calculations

CL Pesticides Chlorinated Pesticides

CLP Contract Laboratory Program

CLPAS Contract Laboratory Program Analytical Service

DDD 4,4-dichlorodiphenyldichloroethane

DDE 4,4-dichlorodiphenyldichloroethylene

DDT 4,4-dichlorodiphenyltrichloroethane

DQOs data quality objectives

DUP duplicate

E & E Ecology & Environment, Inc.

EPA United States Environmental Protection Agency

F Fahrenheit

GeoprobeTM GeoprobeTM direct-push sampler

IDW investigation-derived waste

J The associated numerical value is an estimated quantity

MCL maximum contaminant level

μg/L micrograms per Liter

μg/kg micrograms per kilogrammg/kg milligrams per kilogram

MTCA Model Toxics Control Act

MS matrix spike

MSD matrix spike duplicate

PA Preliminary Assessment

PCDDs polychlorinated dibenzo-dioxins

PCDFs polychlorinated dibenzo-furans

PCBs polychlorinated biphenyls

PRGs Preliminary Remediation Goals

PWD Public Works Department

LIST OF ACRONYMS (CONTINUED)

Acronym **Definition** QA quality assurance QC quality control %R percent recovery \mathbf{R} the sample results are rejected RPD Relative Percent Difference

SQAP Sampling and Quality Assurance Plan

START Superfund Technical Assessment and Response Team

SVOC semivolatile organic compounds **TAL**

TBA Targeted Brownfields Assessment

TCLP Toxicity Characteristic Leaching Procedure

Target Analyte List

TEQ Toxic Equivalent Quantity

the Historical Landfill Chelan County Worthen Street Municipal Landfill

the site the Wenatchee Landfill site the City the City of Wenatchee

TM task monitor

U the associated numerical value is the sample quantitation limit

the detection limit is estimated because quality control criteria were not met UJ

USGS United States Geological Survey

VOC volatile organic compounds

WDOE Washington Department of Ecology

WRCC Western Regional Climate Center

WENATCHEE LANDFILL TARGETED BROWNFIELDS ASSESSMENT REPORT WENATCHEE, WASHINGTON

1. INTRODUCTION

Pursuant to United States Environmental Protection Agency (EPA) Superfund Technical Assessment and Response Team (START) Contract No. 68-W6-0008 and Technical Direction Document No. 98-11-0007, Ecology and Environment, Inc., (E & E) performed a Targeted Brownfields Assessment (TBA) at the Wenatchee Landfill site located in Wenatchee, Washington. The EPA's Brownfields Economic Redevelopment Initiative is designed to empower states, cities, tribes, communities, and other stakeholders in economic redevelopment to work together in a timely manner to prevent, assess, safely clean up, and sustainably reuse brownfields sites.

The City of Wenatchee Public Works Department (PWD) owns the property and operates on site. The City is considering the sale of the property for use as business office space and therefore requested a TBA.

This TBA consisted of limited on-site sampling at potential contaminant source areas for site characterization purposes. This report outlines the technical and analytical approaches that were employed by the START during TBA fieldwork and characterizes actual contaminants detected.

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2. SITE BACKGROUND

The information and descriptions provided in this section are based on a review of previous investigations and a START site visit conducted on March 22, 1999.

2.1 SITE LOCATION AND DESCRIPTION

The site is located at 25 North Worthen Street in Wenatchee, Washington (Figure 2-1), at latitude 47° 25′ 35″ North and longitude 120° 18′ 25″ West in Section 3, Township 22N, Range 20E, Willamette Meridian (USGS 1966).

The former Chelan County Worthen Street Municipal Landfill (the Historical Landfill) covered approximately 6 acres and is located adjacent to the Columbia River. The unlined Historical Landfill is located on the City of Wenatchee PWD and adjacent wastewater treatment plant property (WDOE 1985). The Historical Landfill occupies approximately 1.5 acres of the approximately 3.34 acres of mostly paved PWD property that also includes office, storage, and equipment maintenance buildings (Figure 2-2). The PWD constructed the office building in 1958. The storage and equipment maintenance buildings were constructed in the early 1970s after the closure and subsequent filling of the Historical Landfill. The Historical Landfill is located in the northeast and northwest portion of the PWD property and is covered by pavement and the storage building (Figure 2-2). Groundwater flow from the site is east toward the Columbia River. Seasonal groundwater fluctuations are expected to range from 10 to 30 feet bgs (WDOE 1985). The drainage area for the site likely consists of only the 3.34 acres of PWD property because of barriers such as sidewalks and curbs surrounding the property. The PWD property is generally flat with minimal slope except for the outline of the Historical Landfill, which is defined by settling of the pavement (approximately 4 to 6 inches below grade) in the PWD parking lot (Figure 2-2). The entire site is paved, and surface water runoff travels via sheet flow along the pavement to the six surface water collection points (Figure 2-2). All storm drains lead to an outfall at Riverfront Park and into the Columbia River. Any spills from current operations would likely flow into these collection points and therefore would not impact local groundwater.

The PWD property is fenced with two gated entrances along North Worthen Street. The land uses within 1 mile of the site are mainly industrial, commercial, recreational, and residential. Industrial

and commercial uses include shopping in the downtown retail district of Wenatchee, agricultural product processing, and operations at the wastewater treatment plant. Recreational activities include the use of Riverfront Park for walking and jogging and the Columbia River, which is used for boating and fishing. A total of 5,142 residences with 11,194 people are within 1 mile of the site (EPA 1999). The nearest residences are located approximately 0.25 mile west of the site. Under current conditions, there is little potential for direct contact with on-site soils and inhalation of windblown dust because of the pavement covering the Historical Landfill.

2.2 WENATCHEE REGIONAL CONDITIONS

Wenatchee is located in central Washington in the Cascade Mountains at an elevation of 620 to 900 feet (USGS 1966). The average temperatures in January range from 21.2° to 33.5° Fahrenheit (°F) and in July range from 60.1° to 87.1°F. Annual precipitation is 8.58 inches, with 33.0 inches of snowfall (WRCC 1999). The flood hazard due to the proximity of the site to the Columbia River is moderate as the site is located partially within a 100-year flood plain (WDOE 1985).

The primary municipal water supplies (approximately 99.99 percent) within the city are provided by the City of Wenatchee Water Department and the Chelan County Public Utilities Department water system (Curry 1999). These public systems draw water from an aquifer located on the east side of the Columbia River approximately 6 miles north of the site and east of the Rocky Reach Dam. Public water is treated and piped throughout the city (Curry 1999; Erickson 1999; Walker 1999). Groundwater at the site is not used for drinking water. All known wells within 3 miles of the site are located across the Columbia River, which serves as a hydrological barrier (WDOE 1985). The nearest known drinking water well is located 0.5 miles east of the site.

2.3 SITE OWNERSHIP HISTORY

The Historical Landfill began operations in 1952 as a municipal landfill owned and operated by the City (WDOE 1985). The Historical Landfill ceased operations in the early 1970s. The City has owned the property since 1952, however, ownership before that date is unknown.

2.4 SITE OPERATIONS AND WASTE CHARACTERISTICS

The Historical Landfill operated from 1952 until the early 1970s (EPA 1981). Site operations included disposal and occasional open burning of residential solid wastes. There are no records of hazardous material disposal (WDOE 1985), trash separation areas, or specific burn pit locations within

the landfill. Waste monitoring records were not maintained during operation of the Historical Landfill, therefore suspected potential contaminants of concern include volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs); chlorinated pesticides (CL Pesticides)/polychlorinated biphenyls (PCBs); Target Analyte List (TAL) metals, and, based on the reported incineration of on-site waste, polychlorinated dibenzo-dioxins (PCDDs) and polychlorinated dibenzo-furans (PCDFs).

2.4.1 Previous Investigations

No records of hazardous wastes were found during a non-sampling Preliminary Assessment (PA) conducted at the Historical Landfill in 1985 by the WDOE. No leachate was observed migrating from the Historical Landfill during the PA (WDOE 1985), and groundwater was estimated to range between 10 and 30 feet below ground surface (bgs).

2.4.2 START Site Visit

On March 22, 1999, the EPA task monitor (TM) and START project manager conducted a site visit and interviewed City personnel, including the director of the Department of Community Development and the Street/Fleet and Facilities manager for the PWD, to collect information regarding historical, current, and potential future use of the property. The EPA and START personnel toured the property with the City personnel and observed the approximate outline of the Historical Landfill based on the settling in the pavement as described by City employees (Woodke 1999). Most of the historical site usage information was obtained from the PA Report (WDOE 1985).

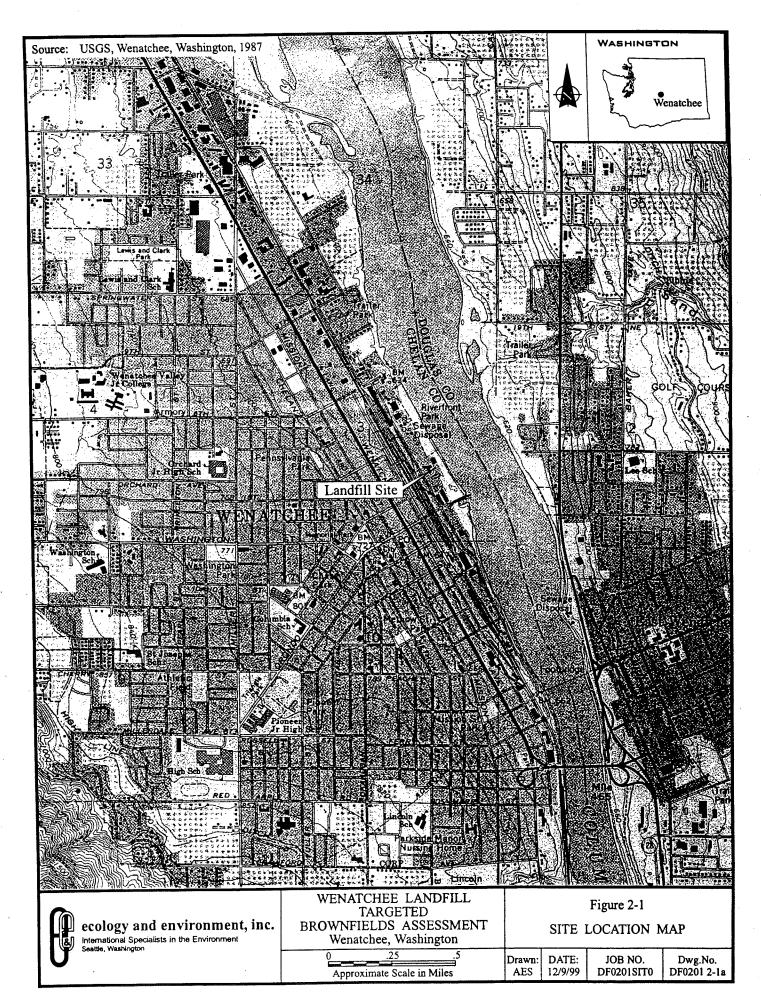
2.4.3 Potential Future Property Uses

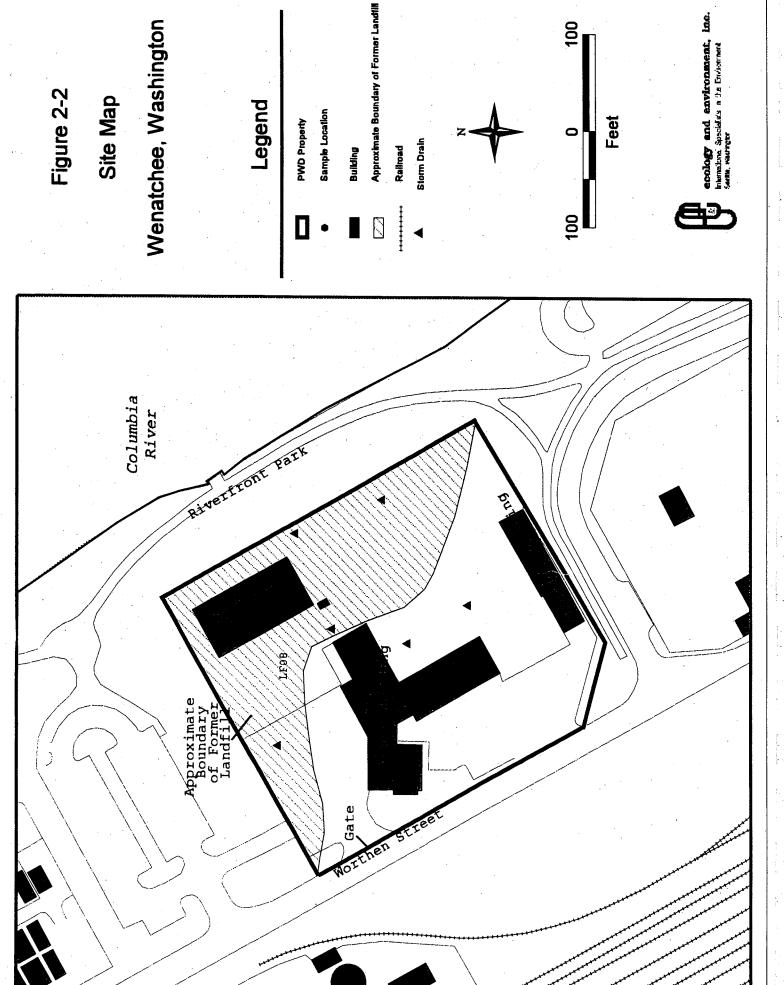
City personnel have indicated that the PWD property may be sold to outside parties interested in redeveloping the property, potentially as a business park or hotel location (Woodke 1999), however specific information on potential development(s) at the PWD property have not been provided to the START.

2.4.4 Areas of Potential Contamination

Sampling was conducted at those areas considered to be potential contamination sources and at on-site areas that may have been contaminated through migration of hazardous substances from sources on site. Based on a review of background information and discussions with site representatives, the following areas were planned for evaluation under the Wenatchee Landfill TBA:

- Historical Landfill Soil/Waste: An unknown quantity of undocumented domestic solid wastes was disposed of at the Historical Landfill. Burning of wastes also was documented. Potential contaminants of concern include VOCs, SVOCs, CL Pesticides/PCBs, TAL metals, and PCDDs/PCDFs;
- <u>Historical Landfill Groundwater</u>: An unknown quantity of undocumented domestic solid wastes was disposed of at the Historical Landfill. Contaminants associated with the solid waste are potentially migrating to groundwater. Potential contaminants of concern include VOCs, SVOCs, CL Pesticides/PCBs, TAL metals, and PCDDs/PCDFs;
- PWD Property (Non-Landfill) Soil: Soil on the PWD property outside of the Historical Landfill area may be impacted by leachate migrating from the Historical Landfill. Potential contaminants of concern include VOCs, SVOCs, CL Pesticides/PCBs, TAL metals, and PCDDs/PCDFs;
- <u>PWD Property (Non-Landfill) Groundwater</u>: Groundwater from the Historical Landfill area is potentially impacted from the Historical Landfill. Potential contaminants of concern include VOCs, SVOCs, CL Pesticides/PCBs, TAL metals, and PCDDs/PCDFs; and
- Riverfront Park Seeps: Because of the proximity of the site to the Columbia River, contaminants from the Historical Landfill can potentially leach downgradient to Riverfront Park and into the Columbia River via seeps; however, seep samples were not collected because seeps were not present near the PWD property during the TBA.





Wenatchee, Washington

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3. BROWNFIELDS INVESTIGATION AND RESULTS

3.1 FIELD ACTIVITIES

TBA field activities were conducted at the site during the weeks of June 28 and July 5, 1999. Photographic documentation of site activities is presented in Appendix A. All sampling was conducted in accordance with the EPA-approved Sampling and Quality Assurance Plan (SQAP) dated June 23, 1999 (E & E 1999). Deviations from the SQAP included not collecting samples at Riverfront Park seeps because seeps were not present at the time of sample collection. The Sample Plan Alteration Form summarizes these deviations (Appendix B). Quality assurance (QA)/quality control (QC) information, laboratory analytical data, and QA review memoranda are provided in Appendix C. Global Positioning System coordinates were obtained for locations of all samples collected during the TBA and are provided in Appendix D.

3.2 REGULATORY STANDARDS AND REPORTING

The goals of TBAs are to empower states, cities, tribes, communities, and other stakeholders in economic redevelopment to work together in a timely manner to prevent, assess, safely clean up, and sustainably reuse brownfields. In order to interpret analytical results, conservative screening levels and background concentrations were used for comparison.

Both Washington Department of Ecology (WDOE) Model Toxics Control Act (MTCA) cleanup levels (WDOE 1996) and EPA Region 9 Preliminary Remediation Goals (PRGs) were used as conservative, screening levels to assess whether contaminants present pose a potential threat to human health under a variety of exposure conditions. Residential concentrations were used preferentially for evaluation purposes for maximum beneficial uses of the property. The industrial concentrations also were provided for informational purposes and were used as an alternative cleanup goal for soils.

Washington MTCA levels are presented according to three categories: Methods A, B, and C. Method A levels are generally the most conservative, may or may not be risk-based, and are intended for use at simple sites with a limited number of contaminants. Method A values are available for groundwater (assuming human consumption), residential soil, and industrial soil. Generally, if a Method A value is available for a given contaminant, it should be used as the screening level for that

contaminant. However, some Method A values may be inappropriate at a given site because they are based on pathways that are not important (e.g., migration to groundwater). When the Method A value is determined to be inappropriate, then the corresponding Method B or Method C value should be used for residential or industrial scenarios, respectively.

Method B levels are based on residential land use; consequently, groundwater cleanup levels are based on household use of groundwater as a drinking water source while soil levels assume high frequency of contact in a residential setting. Method B cleanup levels account for exposures to children. Method B cleanup levels correspond to a one in 1,000,000 excess lifetime cancer risk for carcinogens or a hazard quotient of 1 for noncarcinogens. (A hazard quotient is a ratio between the level to which someone may be exposed to a contaminant in the environment and the level deemed "safe" by regulatory agencies. This "safe" exposure level is usually referred to as a reference dose or reference concentration.)

Method C levels are based on commercial or industrial land use; consequently, soil and groundwater cleanup levels are based on adult contact only. The risk levels for Method C are an excess lifetime cancer risk of one in 100,000 for carcinogens and a hazard quotient of 1 for noncarcinogens. While MTCA has provided tables of Method B and C values in their Cleanup Levels and Risk Calculations (CLARC) tables, the equations used to derive these levels are provided in Chapter 173-340 Washington Administrative Code so that levels for existing chemicals in the table or additional chemicals can be calculated as new toxicity data becomes available. Because of the limited scope of the TBA, levels available in the 1996 version of the CLARC table were used where available.

When MTCA levels were not available, the most recent EPA Region 9 PRG table (EPA 1999b) was used as the source of screening levels. EPA Region 9 PRGs are risk-based levels that are useful as screening values at sites to determine whether levels of contaminants pose a potential threat to human health. PRGs are based on an excess lifetime cancer risk of one in 1,000,000 for carcinogens and a hazard quotient of 1 for noncarcinogens. Soil PRGs are available for residential exposure scenarios (including children) and industrial exposure scenarios (adults only). Tap water PRGs can be used for comparison to groundwater, assuming the groundwater is used for domestic purposes in a residential exposure setting (i.e., drinking, washing clothing and dishes, bathing, etc.).

At the EPA TM's direction, site-specific background samples were not collected, however metals results were compared to Washington State natural background levels as listed in *Natural Background Soil Metals Concentrations in Washington State*, Toxics Cleanup Program, WDOE, October, 1994 (WDOE 1994).

For this section's analytical summary tables, analytical concentrations were evaluated using the following guidelines:

- Analytes that were not detected in any sample within a given medium were deleted from the table;
- All detected analytes were bolded;
- Analytes detected at concentrations above one or more screening levels or Washington State natural background levels were considered elevated and are underlined; and
- In the absence of applicable screening levels, analytical concentrations were included in the tables but could not be quantitatively evaluated.

Based on EPA, Region 10, policy, evaluation of aluminum, calcium, iron, magnesium, potassium, and sodium (i.e., common earth crust metals) generally is employed only in water mass tracing, which is beyond the scope of this report. Additionally, calcium, iron, magnesium, potassium, and sodium are not associated with toxicity to humans under normal circumstances (EPA 1996c). For these reasons, these elements are not discussed in the report.

3.3 ANALYTICAL PROTOCOL, SAMPLING METHODS, AND RATIONALE

This section describes the subsurface soil and groundwater sample collection conducted for the TBA. Surface soil samples were not collected due to the presence of pavement throughout the site. Following collection, all samples were stored in iced coolers and maintained under chain of custody. Forty-six samples, excluding QA samples (rinsate blanks and trip blanks), were collected during the TBA. Sample types and the methods of collection are described below. Sample locations were determined based on background information and were designed to investigate the areas of concern identified in Section 2.4.4. A list of all samples collected for laboratory analysis during the TBA is presented in Table 3-1. Alphanumeric identification numbers applied to each sample location (e.g., LF01) are the sample location identifiers used in the report. Approximate sample locations are shown in Figure 3-1.

3.3.1 Subsurface Soil Sampling

Subsurface soil samples, mixed with varying amounts of landfill waste and designated as soil samples in this report, were analyzed for combinations of the following parameters as specified in the approved SQAP: VOCs (Contract Laboratory Program Analytical Service [CLPAS] OLM03.2), SVOCs

(CLPAS OLM03.2), CL Pesticides/PCBs (CLPAS OLM03.2), TAL metals (CLPAS ILM04.0), and PCDDs/PCDFs (EPA SW-846 Method 8290). Subsurface soil samples were collected using a Geoprobe[™] direct-push sampler (Geoprobe[™]) and split-spoon stainless steel samplers with acetate liners. The samples were collected at the designated depths (except as noted in Table 3-1) of 0 to 4 feet bgs, 8 to 12 feet bgs, 18 to 22 feet bgs, and 28 to 32 feet bgs; were homogenized thoroughly using dedicated stainless steel spoons and dedicated stainless steel bowls (except for aliquots for VOC analyses, which were placed directly into the sample containers); and were placed into prelabeled sample containers using the same dedicated stainless steel spoons. The Geoprobe[™] sampler was decontaminated with soapy water and rinsed with a steam cleaner between sample locations as outlined in the SQAP. After sample collection, the boreholes were backfilled with bentonite grout.

3.3.2 Groundwater Sampling

The groundwater samples were analyzed for the following parameters as specified in the approved SQAP: VOCs (CLPAS OLM03.2), SVOCs (CLPAS OLM03.2), CL Pesticides/PCBs (CLPAS OLM03.2), TAL metals (CLPAS ILM04.0), and PCDDs/PCDFs (EPA SW-846 Method 8290). Groundwater samples were collected using the GeoprobeTM, dedicated Teflon-lined tubing, and an inertia pump with a check valve attached. The groundwater seep samples that were planned to be collected from Riverfront Park were not collected because of the absence of observable seeps. The check valves went through a six-step decontamination process between sample locations as outlined in the SQAP. Groundwater was pumped directly into the prelabeled sample containers and then preserved as appropriate. After sample collection, the boreholes were backfilled with bentonite grout. The abandonment of each borehole that reached groundwater was observed by a registered State of Washington Professional Engineer.

3.4 SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Samples collected during the TBA were analyzed for the parameters listed in Table 3-1. Sample collection depths are also provided in Table 3-1.

3.4.1 Landfill Area

Subsurface soil samples were collected from ten soil borings (locations LF01 through LF03 and LF07 through LF13) in the Historical Landfill area on the PWD property (Figure 3-1). Two to four soil samples were collected from each borehole location depending on sample recovery. Subsurface soil

sample results are provided in Table 3-2 and a summary of subsurface soil results compared to screening levels is provided in Table 3-3. Groundwater samples were collected from three soil borings (LF02, LF03, and LF11). Groundwater sample results are provided in Table 3-4 and a summary of groundwater results compared to screening levels is provided in Table 3-5.

3.4.1.1 Subsurface Soil Samples

A total of 33 subsurface soil samples were collected from the Historical Landfill area. Six VOCs, 17 SVOCs, 15 CL Pesticides, two PCBs, 17 TAL metals, and 15 PCDD/PCDF congeners were detected in the subsurface soil samples. Screening levels were exceeded in 26 of 33 samples. The following analytes exceeded one or more screening level concentrations:

<u>Analyte</u>	Sample Locations with Exceedances	Exceedance Concentration Range
Chrysene	One	540 μg/kg
Arsenic	Four	20.7 to 43.9 mg/kg
Beryllium	Twenty six	0.24 to 0.68 mg/kg
Lead	Two	385 to 437 mg/kg

Each of the subsurface soil sample screening level exceedances were greater than the applicable residential standards but were less than the applicable industrial standards. Due to the single exceedance of chrysene at a depth of 8 to 12 feet bgs, chrysene does not appear to warrant additional investigation. The inorganic exceedances occurred throughout the property. The beryllium exceedances are all below the Washington State natural background average of 2 mg/kg as listed in *Natural Background Soil Metals Concentrations in Washington State*, Toxics Cleanup Program, WDOE, October, 1994 (WDOE 1994). Because the site is likely to be developed for commercial purposes in the future and because contamination is present in the subsurface samples, additional evaluation is not warranted at this time. However, if future development results in transport of subsurface contamination to the surface and if the land use changes, additional evaluation should be performed to ensure that contamination does not pose a health risk under new land uses.

3.4.1.2 Groundwater Samples

Three groundwater samples were collected from the Historical Landfill area. Eight VOCs, seven SVOCs, two CL Pesticides, one PCB, 16 TAL metals, and four PCDD/PCDF congeners were detected in the groundwater samples. Screening levels were exceeded at all three locations. The following analytes exceeded one or more screening level concentrations:

Sample Locations with Exceedances	Exceedance Concentration Range
One	21 μg/L
One	420 μg/L
One	1.3 μg/L
One	0.61 μg/L
One	0.41 μg/L
Three	7.1 to 45.6 μg/L
Two	1,330 to 1,930 μg/L
Two	0.82 to $2~\mu g/L$
One	5.2 μg/L
Three	74.9 to 541 μg/L
Three	16.5 to 487 μg/L
Two	2,430 to 2,470 μg/L
One	363 μg/L
One	1.6 pg/L
One	192 μg/L
	One One One One One One Three Two One Three Three Three Three Three One One

Each of the groundwater sample screening level exceedances were greater than MTCA Method A or B residential levels. These exceedances may not be significant if groundwater does not represent an exposure medium for current or future receptors. Groundwater underlying the site is not currently used as a domestic water supply and does not appear to be hydrologically connected to an aquifer used for drinking water. Therefore, additional consideration of groundwater contamination may not be required at this time.

3.4.2 Non-Landfill Area

Subsurface soil samples were collected from four soil borings (locations LF04, LF05, LF06, and LF14) on PWD property away from the Historical Landfill (Figure 3-1). Two to four soil samples were collected from each borehole location depending on sample recovery. Subsurface soil sample results are provided in Table 3-6 and a summary of subsurface soil results compared to screening levels is provided in Table 3-7. Groundwater samples were collected from two soil borings (LF04 and LF14). Groundwater sample results are provided in Table 3-8 and a summary of groundwater results compared to screening levels is provided in Table 3-9.

3.4.2.1 Subsurface Soil Samples

A total of eight subsurface soil samples were collected from the non-landfill area. Sample LF06SB04B was collected from approximately the same location and depth as sample LF06SB04 and was submitted only for PCDD/PCDF analysis in the absence of a PCDD/PCDF aliquot for location LF06SB04. Two VOCs, 20 SVOCs, three CL Pesticides, 16 TAL metals, and eight PCDD/PCDF congeners were detected in the subsurface soil samples. Screening levels were exceeded at all eight locations. The following analytes, including frequency of screening level exceedance and concentration ranges, exceeded one or more screening level concentrations:

Analyte	Sample Locations with Exceedances	Exceedance Concentration Range
Beryllium	Eight	0.25 to 0.36 mg/kg
Benzo(a)anthracene	One	2,200 μg/kg
Benzo(a)pyrene	One	1,100 μg/kg
Benzo(b)fluoranthene	One	1,200 μg/kg
Chrysene	One	3,200 μg/kg
Dibenz(a,h)anthracene	One	420 μg/kg
Indeno(1,2,3-cd)pyrene	One	1,200 μg/kg

The beryllium exceedances are all below the Washington State natural background average of 2 mg/kg as listed in *Natural Background Soil Metals Concentrations in Washington State*, Toxics Cleanup Program, WDOE, October, 1994 (WDOE 1994). Each of the subsurface soil sample screening level exceedances were greater than the applicable residential standards but were less than the applicable

industrial standards. Each organic analyte exceedance occurred at sample location LF14 at 8 to 12 feet bgs. Due to the isolated exceedance results and because detected concentrations were less than industrial levels, soil in the non-landfill area does not appear to warrant additional investigation.

3.4.2.2 Groundwater Samples

Two groundwater samples were collected from the non-landfill area. Five VOCs, two CL Pesticides, one PCB, 15 TAL metals, and two PCDF congeners were detected in the groundwater samples. Screening levels were exceeded at both locations. The following analytes, including frequency of screening level exceedance and exceedance ranges, exceeded one or more screening level concentrations:

<u>Analyte</u>	Sample Locations with Exceedances	Exceedance Concentration Range
Methylene Chloride	One	23 μg/L
Aroclor 1260	One	0.37 μg/L
Arsenic	Two	18.3 to 28.4 μ g/L
Barium	Two	1,390 to 1,930 μg/L
Beryllium	Two	2.8 μg/L
Chromium	Two	234 to 762 μ g/L
Lead	Two	45.1 to 86.3 μg/L
Manganese	Two	5,190 to 6,240 μg/L
Nickel	One	565 μg/L
Vanadium	Two	155 to 222 μg/L

Each of the groundwater sample screening level exceedances were greater than MTCA Method A or B residential levels. These exceedances may not be significant if groundwater does not represent an exposure medium for current or future receptors. Groundwater underlying the site is not currently used as a domestic water supply and does not appear to be hydrologically connected to an aquifer used for drinking water. Therefore, additional consideration of groundwater contamination may not be required at this time.

	Z	Analyses	VOCs	VOCs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	
Table 3-1	SAMPLE COLLECTION INFORMATION WENATCHEE, WASHINGTON	Sample Description	Trip blank	Trip blank	Dry gray to brown sand/gravel fill	Moist brown sand with silt and gravel; Red brick 9' - 10'; Wood at 10'.	Dry gray clay 18'; medium brown sand 19' - 20'; fine gray sand 22'	Dry brown sand, little silt	Dry brown silt and sand, clay to 9'; dry white coarse sand 9' - 10'; dry brown silt and sand 10' - 11'	Dry brown/gray sand	Dry brown/gray sand	Groundwater	Dry brown and gray sand with gravel	Brown sand, little gravel, clay, and silt; wood fragments 10' - 10.5'	Dry black sand, rocks, and wood; wet at 22'; some garbage debris	Wet black organic sand with brown sand at 30' grading to gray sand at bottom; few fines	
	SAMPLE	Denth*	N/A	Y.N	0' - 4' bgs	8' - 12' bgs	18' - 22' bgs	0' - 4' bgs	8' - 12' bgs	18' - 22' bgs	28' - 32' bgs	32' bgs	0' - 4' bgs	8' - 12' bgs	18' - 22' bgs	28' - 32' bgs	
		Matrix	Water	Water	Subsurface	Subsurface	Subsurface soil	Subsurface	Subsurface	Subsurface	Subsurface	Groundwater	Subsurface	Subsurface	Subsurface soil	Subsurface soil	
		Ctotion ID	Station 1D	LFUITEN	LF01SB04	LF01SB12	LF01SB22	LF02SB04	LF02SB12	LF02SB22	LF02SB32	LF02GW32	LF03SB04	LF03SB12	LF03SB22	LF03SB32	
		Ë	ami I	0800	0800	1000	1030	1120	1145	1215	1430	1545	0060	0920	1740	1800	
		,	Date	6/26/66	6/29/99	6/56/99	6/56/99	6/56/99	6/53/66	6/23/99	6/23/99	6/23/99	66/08/9	66/30/99	66/06/9	66/08/9	

Key is at the end of the table.

Key is at the end of the table.

	7.	Analyses	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs,	PCDDs/PCDFs	IAL metals, vocs, svocs, or restoration	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	VOCs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	T. Darticidae (PCBs	TAL metals, VOCs, SVOCs, CL restructor CDS, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs	VOCs	
Table 3-1 (CONTINUED)	SAMPLE COLLECTION INFORMATION WENATCHEE, WASHINGTON	Sample Description	Rinsate blank	Rinsate Mank	Dry brown sand, gravel and silt	DIY OLOWII Saile, Branci	Dry brown sand, gravel and silt	Groundwater	Trip blank	Dry brown and gray sand		Dry dark gray/black sand with brown and white glass; charcoal 9' - 11'	Dry gray sand and gravel to cobbles 18' - 21'; gray gravel 21' - 22'	Groundwater	Dry dark gray sand with a small interval of electric blue debris	Moist dark gray sandy loam	Dry gray sandy silt 18' - 20'; white quartzitic sand 20' - 20.5'; poorly sorted gray sand 20.5' - 22'	Dry quartzitic gravel and very fine well-sorted sand; Geoprobe TM refusal at 29'	Trip blank	
	SAMPLE		N/A	C/N	N/A	U - 4 0gs	8' - 12' bgs	24' bgs	V N	0' - 4' bgs		8' - 12' bgs	18' - 22' bgs	24' bgs	0' - 4' bgs	8' - 12' bgs	18' - 22' bgs	25' - 29' bgs	N/A	
	·		Matrix	water	Water	Subsurtace soil	Subsurface soil	Groundwater	11/2401	Subsurface	soil	Subsurface soil	Subsurface	Groundwater	Subsurface	Subsurface	Subsurface	Subsurface	Water	
			Station ID	LF01RB00	LF01RB01	LF14SS00	LF14SB08	LF14GW24		LF11SS00		LF11SB12	LF11SB22	LF11GW24	LF12SB04	LF12SB12	LF12SB22	LF12SB29	LF01TB05	
			Time	0839	0845	1625	1720	1000		1000		1505	1540	1625	0160	0920	0935	1000	0080	4
			Date	7/2/99	7/2/99	66/9/L	66/9/L	66/L/L		967/7		66L/L	66L/L	96L/L	66/8/L	66/8/1	66/8/L	66/8/L	2/8/99	

Key is at the end of the table.

					Table 3-1 (CONTINUED)	
				SAMPI	SAMPLE COLLECTION INFORMATION WENATCHEE, WASHINGTON	Z
Date	Time	Station ID	Matrix	Depth.	Sample Description	Analyses
66/8/1	1340	LF13SB04	Subsurface soil	0' - 4' bgs	Dry dark gray sand with gravel 0' -2'; dry dark brown well-sorted sand 2' - 3'; dry light brown fine sand 3' - 4'; I" diameter quartzitic rock	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs
66/8/L	1400	LF13SB12	Subsurface soil	8' - 12' bgs	Dry dark gray very fine sand 8' - 10'; dry light brown quartzitic sand 10' - 12'	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs
66/8/L	1440	LF13SB22	Subsurface soil	18' - 22' bgs	Dry brown gravel 18' - 18.5'; Moist gray fine sorted sand 18.5' - 22';	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs
66/8/L	1625	LF13SB32	Subsurface soil	24' - 25' bgs	Moist dark gray well-sorted sand	TAL metals, VOCs, SVOCs
66/8//	1745	LF06SB04B	Subsurface soil	0' - 4' bgs	Dry brown sand with little gravel	PCDDs/PCDFs
66/6/L	0060	LF09SB04	Subsurface soil	0' - 3' bgs	Dry fine sand and cobbles with white quartzitic rocks	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs
66/6/L	0945	LF09SB12	Subsurface soil	8' - 12' bgs	Dry gray fine sand and pebbles 8' - 9.5'; Dry red-stained soil 9.5' - 10'; Dry gray fine well-sorted sand 10'-12'	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs
66/6/2	0930	LF09SB22	Subsurface soil	18' - 21' bgs	Dry dark brown sand and gravel; cobbles up to 3" diameter with white and black ground up quartzitic granite	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs
66/6/L	0020	LF01TB06	Water	N/A	Trip blank	VOCs
66/6/L	0705	LF01TB07	Water	N/A	Trip blank	VOCs
66/6/L	1350	LF01RB03	Water	N/A	Rinsate blank	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs
.66/6/L	1500	LF10SB04	Subsurface soil	0' - 4' bgs	Asphalt, gravel and sand	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs
66/6/1	1530	LF10SB12	Subsurface soil	8' - 12' bgs	Woody debris	TAL metals, VOCs, SVOCs, CL Pesticides/PCBs, PCDDs/PCDFs

	Table 3-1 (CONTINUED) SAMPLE COLLECTION INFORMATION WENA TCHEE, WASHINGTON	Time Chatian ID Matrix Denth	Tille Station 1D mains Depart	7/9/99 1600 1.F011DWA Water N/A Investigation-derived waste TAL metals, VOCs, SVOCs, CL Pesticides/PCBs		1 F011DWB Water N/A Investigation-derived waste TAL metals, VOCs, SVOCs, CL Pesticides/PCBS	2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2
Date 7/9/99		E	11111	1600	20		

The soil samples were composite samples except as listed in Section 3.3.1 for the VOC aliquots

Key:

bgs CL Pesticides

Below ground surface.Chlorinated pesticides. CLP EPA Geoprobe™

Contract Laboratory Program.
 United States Environmental Protection Agency.
 GeoprobeTM direct-push sampler.
 Identification.

Not applicable.

Polychlorinated biphenyls.Polychlorinated dibenzo-dioxins.

= Polychlorinated dibenzo-furans.

N/A PCBs PCDDs PCDFs SVOCs TAL VOCs

Semivolatile organic compounds.
 Target analyte list.
 Volatile organic compounds.

				Table 3-2					
T	LANDFILL SU		ACE SOIL	SAMPLE AL	VALYTICAL	BSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY	SUMMARY	k .	
	Recidential	Inductrial	WENAI	WENAICHEE, WASHINGION	HINGION				
LOCATION ID	Cleanup	`	LF01SB04	LF01SB12	LF01SB22	LF02SB04	LF02SB12	LF02SB22	LF02SB32
рертн	Standards	Standards	0 - 4 ft bgs	. 8 - 12 ft bgs	18 - 22 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft bgs	28 - 32 ft bgs
VOCs (µg/kg)									
2-Butanone	6,900,000	27,000,000 ^d	4 J	3 J	13 J	2 J	11 U	31	2 J
Acetone	8,000,000 ^b	350,000,000	32 U	14 U	150 U	12 U	U 11	110	11 U
Benzene	500ª	500ª	11 U	12 U	14 U	11 U	11 U	13 U	11 U
Chlorobenzene	1,600,000 ^b	70,000,000°	11 U	12 U	14 U	11 U	D.11	4 J	11 U
Ethylbenzene	20,000ª		11 U	2 J	14 U	11 U	11 U	f 8	11 U
Xylene (total)	20,000ª	20,000	3 J	14	14 U	2 J	2 J	43	11 U
SVOCs (pg/kg)									
2-Methylnaphthalene	-	-	350 UJ	f 66	460 U	350 U	350 U	420 U	380 U
Acenaphthene	4,800,000 ^b	210,000,000	350 UJ	400 UJ	460 U	350 U	350 U	420 U	380 U
Anthracene	24,000,000 ^b 100	100,000,000	350 UJ	400 UJ	460 U	350 U	350 U	420 U	380 U
Benzo(a)pyrene	137 ^b	18,000°	£8 J	400 UJ	460 U	350 U	350 U	44 J	380 U
Benzo(b)fluoranthene	137 ^b	18,000°	350 UJ	400 UJ	460 U	350 U	350 U	48 J	380 U
Benzo(k)fluoranthene	137 ^b	18,000°	350 UJ	400 UJ	460 U	350 U	350 U	48 J	380 U
Bis(2-ethylhexyl)phthalate	71,400 ^b	9,370,000°	f 06	460 J	460 U	350 U	350 U	120 J	380 U
Butylbenzylphthalate	16,000,000 ^b 700	700,000,000	350 UJ	400 UJ	460 U	350 U	350 U	420 U	380 U
Carbazole	50,000 ^b	6,560,000°	350 UJ	400 UJ	460 U	350 U	350 U	420 U	380 U
Chrysene	137 ^b	18,000°	350 UJ	1 2 L	460 U	350 U	350 U	420 U	380 U
Di-n-butylphthalate	8,000,000 ^b	350,000,000	350 UJ	400 UJ	460 U	350 U	350 U	420 U	380 U
Dimethylphthalate	80,000,000 ⁶ 350	350,000,000	350 UJ	400 UJ	460 U	350 U	350 U	420 U	380 U
Fluoranthene	3,200,000 ^b	140,000,000	350 UJ	f 09	460 U	350 U	350 U	48 J	380 U
Fluorene	3,200,000 ^b	140,000,000	350 UJ	20 J	460 U	350 U	350 U	420 U	380 U
Naphthalene	3,200,000 ^b 140	140,000,000	350 UJ	160 J	460 U	350 U	350 U	420 U	380 U
Phenanthrene	1	1	350 UJ	140 J	460 U	350 U	80 J	420 U	380 U
Ругепе	2.400.000 ^b 105.	105.000.000	S9 J	87 J	460 U	350 U	52 J	57 J	380 U

			Table	Table 3-2 (CONTINUED)	NUED)				
LA	LANDFILL SU		ACE SOIL SAMPI WENATCHEE.	AMPLE AN	BSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON	RESULTS	SUMMAR	٨.	
CT D INCODE ANTE NITMER	Residential	Industrial							
TOCATION ID	Cleanup	Cleanup	LF01SB04	LF01SB12	LF01SB22	LF02SB04	LF02SB12	LF02SB22	28 32 ft bas
DEPTH	Standards	Standards	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	säg 11 77 - 81	cgo 11 7C = 07
Pesticides/PCBs (µg/kg)								1 200	0 0 1 T
4.4-DDD	4,170 ^b	547,000°	21	98	8.1	48	47	L 052	0.71
4. DDE	2.940 ^b	386,000°	12	100	6.1 J	42	23	180	0.87
4 4'-DDT	1,000	5.000ª	43	4.0 U	3.0 J	3.5 J	52	18	0.67 5
Aldrin	98 85	7.720°	2.1 J	2.0 U	2.4 U	1.8 U	1.8 U	8.2	1.9 U
Alnha-BHC	159	20.800°	1.8 U	2.0 U	2.4 U	1.8 U	1.8 U	4.4 U	1.9 U
Alpha-chlordane	969L	101.000	1.8 U	4.5	1.1 J	3.7 J	1.8 U	6.1 J	1.9 U
Aroclor1242	1 000	10,000	35 U	40 U	46 U	35 U	35 U	85 U	38 U
Aroclor1254	1.000	10,000	35 U	40 U	46 U	35 U	35 U		38 U
Beta-BHC	988 988	72 900°	1.8 U	2.2 J	2.4 U	1.8 U	1.8 U	5 J	1.9 U
Delta-RHC	,	,	1.8 U	2.0 U	2.4 U		1.8 U	5.0 J	1.9 U
Dieldrin	62.5 ^b	8,200°	5.6	7.1 J	4.6 U		3.5 U	21	3.8 U
Endosulfan I	480.000 ^b	21,000,000°	5.2	2.0 U	2.4 U	1.8 U	1.8 U	51	0 6.1
Endosulfan sulfate			4.9 J	4.0 U			3.5 U	8.5 U	3.8 U
Endrin	24,000 ^b	1,050,000°	9.0 J	4.0 U		_	3.5 U	8.5 U	3.8 U
Endrin aldehyde	,	,	3.5 U	4.0 U	4.6 U		4.6 J	8.5 U	3.8 U
Endrin ketone	1	-	11 J	4.0 U	4.6 U	3.5 U	3.5 U	8.5 U	3.8 U
Gamma chlordane	•	1	1.9 J	7.6 J	1.8 J	3.0	2.0 J	13	1.9 U
Inorganics (pg/kg)								,	9
Antimony	30 ^d	750 ^d	R	R	R	R	R	¥	K
Arsenic	204	200.0	6.7 J	17.3 J	7.1 J	11.9 J	6.6 J	19.4 J	3.9 J
Barium	5,600 ^b	245,000°	92.1	112	202	94.8	92.9	137	169
Beryllium	0.233 ^b	30.5°	0.26 J	0.24 J	0.34 J	<u>0.29</u> J	0.24 J	<u>0.27</u> J	0.49 J
Cadmium	2ª	10.0	0.11 U	0.27 J	0.12 U	0.11 U	0.11 U	0.13 U	0.13 U
Chromium	100	\$00.0ª	20.4	22.8	62.5	18.4	19.1	26	29.7
Cobalt	3,300 ^d	29,000 ^d	f 8.9	6.4 J	13.7	f 6.9	6.7 J	7.9 J	14.7
Key is at the end of the table.									•

LANDFILL SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON WENATCHEE, WASHINGTON WENATCHEE, WASHINGTON Cleamp Cleamp LF018Bu4 L				Tahla	3.2 (CONT.	(NITED)				
Canada C				I ADIL		(MELONII)				
VONCK-ANIC NUMBER Residential Industrial Industri	L.	ANDFILL		ACE SOIL WENAT	SAMPLE ARCHEE, WAS	NALYTICAL HINGTON	RESULTS	SUMMAR		
Cleanup Cleanup LP01SB04 LP01SB02 LP01SB04 LP02SB12	CLP INORGANIC NUMBER		Industrial							
Hamiltonia Standards Sta	LOCATION ID	Cleanup	Cleanup	LF01SB04	LF01SB12	LF01SB22	LF02SB04	LF02SB12	LF02SB22	LF02SB32
Particle (1998) Particle (Standards	Standards	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft bgs		1 1	18 - 22 ft bgs	28 - 32 ft bgs
1,000,0 16,2 10,3 10,3 15,4 14,5										
120° 1,000° 146 163 163 162 149 127 127 120	Copper	2,960 ^b	130,000°	16.2	20.2	40.3	15.4	14.5	24.2	26.2
ry 10° 490,00° 316 344 462 349 369 420 1 ry 10° 10° 0.13 0.05 U 0.06 U 0.05 U 0.05 U 0.06 U 0.06 U ry 10° 10° 11,20° 14.9 15.0 1.1 U 1.2 U 1.1 U 1.2 U 0.05 U 0.06 U 0.06 U m 40° 17,50° 0.45 J 0.65 J	Lead	250ª	1,000.0ª	64.6 J	103 J	39.3 J	62.2 J	29.8 J	127 J	24.3 J
ty 1,0° 1,0° 0,13 0,05 U 0,05 U 0,05 U 0,05 U 0,05 U 0,05 U 0,06 U 0,05 U 0,06 U 0,06 U 0,05 U 0,06 U 0,06 U 0,05 U 0,06 U 0,06 U 0,05 U 0,07 U	Manganese	11,200 ^b	490,000°	316	344	462	349	308	420	1,780
um 400° 70,000° 14.9 15.0 61.9 13.7 12.0 23.6 um 400° 17,500° 1.4 U 1.7 U 2.5 U 1.5 U 1.4 U 2.3 m 400° 17,500° 0.56 J 0.69 J 1.1 J 1.0 J 0.65 J 1.1 J m 5.6° 24,500° 36.2 37.4 1.1 B 3.58 35.6 41.2 Maurans (ng/kg) 24,000° 1,050,000° 58.0 J 93.2 J 1.60 5.9 J 54.7 J 11.8 J All-HCDD - - 1782 J 11.487 1.235 2.586 2.735 J 41.2 5.7.8-HCDD - - 1782 J 11.487 1.235 2.586 2.735 J 1.393 7.8-HCDD - - 1.76 U 0.694 U 1.629 J 0.274 U 0.642 U 1.393 7.8-HCDD - - 1.776 U 0.694 U 1.629 J 0.274 U 0.642 U 1.743 U	Mercury	1.0 ^a	1.0ª	0.13	U 20.0	0.06 U	0.05 U	0.05 U	0.06 U	0.06 U
mm 400b 17,500° 1.4 U 1.7 U 2.5 U 1.5 U 1.4 U 2.3 U 1.5 U 1.4 U 2.5 U 1.5 U 1.1 J 1.1 J 1.0 J 0.64 J 0.62 J 1.1 J 1.1 J 1.0 J 0.65 J 0.87 J 1.1 J 1.1 J 1.0 J 0.64 J 0.62 J 1.1 J 1.1 J 1.0 J 0.66 J 1.1 J 1.1 J 1.0 J 0.65 J 1.1 J 1.1 J 1.0 J 0.65 J 1.1 J 1.1 J 1.0 J 0.65 J 0.93 J 1.1 J	Nickel	1,600 ^b	70,000°	14.9	15.0	61.9	13.7	12.0	23.6	31.5
mm 5.6b 12.5c 0.65 J 1.1 J 1.7 J 0.64 J 0.62 J 1.1 J mm 5.6b 245° 0.87 J 1.1 J 1.7 J 1.0 J 0.66 J 0.65 J 1.1 J 1.7 J 1.0 J 0.66 J 0.63 J simm 5.6b 24,500° 36.2 37.4 7.18 3.58 3.56 41.2 sc.78-HpCDD - - 1782 J 55.50 17.65 8.73 6.54 1.18 J s.78-HpCDF - - 1782 J 55.50 17.65 8.73 6.546 67.457 s.78-HpCDF - - 1782 J 1.183 J 1.237 2.286 2.736 J 1.023 J s.8-HpCDF - - 1.749 J 1.183 J 1.239 J 0.273 J 1.103 J s.4-HpCDF - - 0.381 J 1.132 J 2.354 J 2.168 J 2.354 J s.4-HpCDF - - 0.249 J 0.157 J 0.234 J	Selenium	400b	17,500°	1.4 U	1.7 U	2.5 U	1.5 U	1.4 U	2.3	2.2
mm 5.6b 245° 0.87 J 1.1 J 1.7 J 1.0 J 0.96 J 0.93 J 41.2 ium 56b 24,50° 36.2 37.4 71.8 35.8 35.6 41.2 ium 56b 24,500° 36.1 93.2 J 120 J 53.9 J 35.6 41.2 sc/78-mem 24,000° 1,050,00° 58.0 J 93.2 J 120 J 59.9 J 54.7 J 186 J sc/78-HpCDD - - 1778 J 55.30 17.60 J 8.273 6.546 67.457 sc/78-HpCDF - - 1.776 J 0.644 J 1.629 J 0.274 J 0.471 J 7.8-HxCDF - - 1.776 J 0.654 J 1.183 J 0.274 J 0.471 J 7.8-HxCDF - - 0.581 J 1.132 J 0.734 J 0.184 J 0.184 J 0.135 J 7.8-HxCDF - - 0.257 J 0.164 J 0.164 J 0.164 J 0.164 J 0.164 J	Silver	400 _b	17,500°	0.56 J	f 69'0	1.2 J	0.64 J	0.62 J	1.1 J	1.3 J
ium 560b 24,500c 36.2 37.4 71.8 35.8 35.6 41.2 SSDITATION 24,000b 1,050,000c 58.0 J 93.2 J 120 J 59.9 J 54.7 J 186 J SA,Ratemental (ng/kg) 1,050,000c 58.0 J 35.530 17.605 8.273 6.546 67.457 SA,R-HpCDD - - 1,776 U 0.644 U 1.629 J 0.274 U 0.642 U 1.393 J,R-HpCDF - - 1,776 U 0.644 U 1.629 J 0.274 U 0.642 U 1.393 J,R-HpCDF - - 0.581 U 3.754 J 1.183 U 0.273 U 0.642 U 1.393 J,R-HACDF - - 0.581 U 3.374 J 1.183 U 0.274 U 0.418 U 0.414 U 0.414 U 0.418 U 0.155 U J,R-HACDF - - 0.449 U 0.156 U 0.241 U 0.158 U 0.175 U J,R-HACDF - - 0.449 U 0.180 U 0.25	Thallium	5.6 ^b	245°	0.87 J	1.1 J	1.7 J	1.0 J	f 96.0	0.93 J	2.1 J
SATION PARTICINE 1,050,000° 58.0 J 93.2 J 120 J 59.9 J 54.7 J 186 J 5.7,8-HpCDD - - 17,823 J 55.530 17,665 8.273 6,546 67.457 5.7,8-HpCDF - - 1775 U 0.694 U 1,629 J 0.274 U 0.642 U 1.393 7,8-HpCDF - - 0.581 U 3.754 J 1,183 U 0.274 U 0.642 U 1.393 7,8-HxCDD - - 1,776 U 0.694 U 1,629 J 0.274 U 0.642 U 1.393 7,8-HxCDF - - 2,749 J 4,377 J 1,183 U 0.273 U 0.290 U 0.471 U 7,8-HxCDF - - 0.581 U 0.176 U 0.785 U 0.184 U 0.184 U 0.718 U 0.175 U 8-PeCDD - 0.652 U 0.205 U 1.044 0.730 U 0.738 U 0.775 U 8-PeCDF - 0.652 U 0.205 U 1.044 0.730 U 0.740 U 0.	Vanadium	₂ 095	24,500°	36.2	37.4	71.8	35.8	35.6	41.2	74.1
6,7,8-HpCDD - 17823 J 55.530 17.605 8.273 6.546 67.457 56,7,8-HpCDD - - 17823 J 55.530 17.605 8.273 6.546 67.457 7,8,9-HpCDF - - 1.776 U 0.694 U 1.629 J 0.274 U 0.642 U 1.393 7,8-HpCDF - - - 0.581 U 3.754 J 1.183 U 0.274 U 0.642 U 1.393 7,8-HpCDF - - - 2.749 J 4.377 J 1.183 U 0.274 U 0.642 U 1.393 7,8-HpCDF - - - 2.749 J 4.377 J 1.3473 J 2.354 J 2.168 J 8.953 J 7,8-HpCDF - - 0.391 U 1.329 J 0.797 U 0.195 U 1.713 8,9-HpCDF - - 0.499 U 0.176 U 0.241 U 0.534 U 0.755 U 8,9-HpCDF - - 0.652 U 0.206 U 1.044 0.730 U 0.730 U	Zinc	24,000 ^b	1,050,000€	58.0 J	93.2 J	120 J	£ 6.65	54.7 J	f 981	73.0 J
6,7,8-HpCDD - 17,823 J 55,530 17,605 82,73 6,546 67,457 6,7,8-HpCDF - - 3,854 J 11,487 12,375 2,586 2,736 J 20,229 7,8,9-HpCDF - - 1,776 U 0,694 U 1,629 J 0,274 U 0,642 U 1,393 7,8-HpCDF - - - 0,581 U 3,754 J 1,183 U 0,274 U 0,641 U 0,471 U 7,8-HxCDF - - - 0,581 U 1,373 J 2,354 J 2,168 J 8,953 J 7,8-HxCDF - - 0,570 U 0,176 U 0,584 U 0,181 U 0,911 U 0,214 U 0,185 U 8,9-HxCDF - - 0,449 U 0,181 U 0,913 U 0,214 U 0,181 U 8,9-HxCDF - - 0,557 U 0,206 U 1,044 U 0,330 U 0,310 U<	Dioxins/Furans (ng/kg)									
5,67,8-HpCDF - 3.854 J 11.487 12.375 2.586 2.736 J 20229 7,78,9-HpCDF - - 1.776 U 0.694 U 1.629 J 0.274 U 0.642 U 1.393 7,78-HxCDD - - 2.749 J 3.754 J 1.183 U 0.230 U 0.471 U 7,78-HxCDD - - 2.749 J 4.377 J 1.183 U 0.234 J 0.471 U 7,78-HxCDF - - 0.391 U 1.329 J 0.797 U 0.195 U 1.173 7,78-HxCDF - - 0.391 U 1.329 J 0.797 U 0.184 U 0.195 U 1.175 U 8,9-HxCDD - - 0.449 U 0.181 U 0.913 U 0.224 U 0.730 U 0.730 U 0.775 U 8,-PcCDD - - 0.652 U 0.206 U 1.044 U 0.730 U	1,2,3,4,6,7,8-HpCDD	-	•	17.823 J	55.530	17.605	8.273	6.546	67.457	0.374
7,8,9-HpCDF - - 1,776 U 0.694 U 1,629 J 0.274 U 0.642 U 1,393 7,3-HxCDD - - 0.581 U 3,754 J 1.183 U 0.273 U 0.290 U 0.471 U 7,8-HxCDF - - 2,749 J 4,377 J 13,473 J 2,354 J 2,168 J 8,953 J 7,8-HxCDF - - 0,391 U 1,329 J 0,797 U 0,184 U 0,195 U 1,713 8,9-HxCDF - - 0,657 U 0,176 U 0,565 U 0,461 U 0,130 U 1,055 J 8,9-HxCDF - - 0,649 U 0,181 U 0,913 U 0,214 U 0,775 U 8,-PcCDD - 0,650 U 1,027 J 1,975 U 0,230 U 0,775 U 8,-PcCDF - 0,530 U 1,109 J 0,251 U 0,391 J 1,851 J 1-CDD - 0,538 U 0,224 U 0,775 U 0,144 U 0,398 J 0,392 U 1-CDF - 0,224 UJ	1,2,3,4,6,7,8-HpCDF	,	•	3.854 J	11.487	12.375	2.586	2.736 J	20.229	U 5600
7,78-HXCDD - - 0.581 U 3.754 J 1.183 U 0.273 U 0.290 U 0.471 U 7,78-HXCDF - - 2.749 J 4.377 J 11.83 U 0.234 J 2.168 J 8.953 J 7,8-HXCDF - - 0.391 U 1.329 J 0.797 U 0.184 U 0.195 U 1.713 7,8-HXCDF - - 0.557 U 0.176 U 0.565 U 0.461 U 0.133 U 1.055 J 1.055 J 8,9-HXCDF - - 0.449 U 0.181 U 0.913 U 0.214 U 0.224 U 0.876 J 8,9-HXCDF - - 0.449 U 0.181 U 0.913 U 0.214 U 0.224 U 0.738 U 0.775 U 8,PeCDD - - 0.652 U 0.206 U 1.044 0.730 U 0.301 J 1.851 J 1,CDD - - 0.238 U 0.224 U 0.724 U 0.724 U 0.384 J 0.378 U 1,CDF - - 0.224 UJ 0.724 UJ	1,2,3,4,7,8,9-HpCDF	•	•	1.776 U	0.694 U	1.629 J	0.274 U	0.642 U	1.393	0.133 U
7,8-HxCDF - 2.749 J 4.377 J 13.473 J 2.354 J 2.168 J 8.953 J 7,8-HxCDD - - 0.391 U 1.329 J 0.797 U 0.184 U 0.195 U 1.713 7,8-HxCDD - - 0.557 U 0.176 U 0.565 U 0.461 U 0.433 U 1.055 J 8,9-HxCDD - - 0.449 U 0.181 U 0.913 U 0.211 U 0.224 U 0.870 8,9-HxCDD - - 0.449 U 0.181 U 0.913 U 0.224 U 0.870 8,PeCDD - - 0.530 U 1.027 J 1.975 U 0.238 U 0.730 U 0.730 U 0.730 U 0.730 U 0.730 U 0.730 U 0.305 U 1.361 J 1.851 J 1.851 J 1.851 J 1.851 J 1.850 J 0.225 U 0.224 U 0.721 U 0.730 U 0.349 U 0.3798 U 0.325 U 0.749 U 0.749 U 0.3798 U 0.324 U 0.750 U 0.749 U 0.749 U 0.749 U 0.749 U 0.749 U	1,2,3,4,7,8-HxCDD	,	1	0.581 U	3.754 J	1.183 U	0.273 U	0.290 U	0.471 U	0.200 U
7,8-HXCDD - 0.391 U 1.329 J 0.797 U 0.184 U 0.195 U 1.713 7,8-HXCDF - - 0.557 U 0.176 U 0.565 U 0.461 U 0.433 U 1.055 J 1.055 J 8,9-HXCDD - - 0.449 U 0.181 U 0.913 U 0.224 U 0.870 1.075 U 0.730 U 0.775 U 8-PeCDD - - 0.652 U 0.206 U 1.044 0.730 U 0.730 U 0.775 U 8-PeCDF - - 0.652 U 0.206 U 1.044 U 0.506 U 1.361 J 8-PeCDF - - 0.306 U 1.119 J 0.251 U 0.144 U 0.301 J 1.851 J TCDD - 0.224 UJ 0.7219 1.705 0.499 0.3798 1.880 TCDF - - 178.019 J 756.461 269.807 79.196 71.891 827.747 - - 5.307 23.689 30.361 3.73 4.122 53.484	1,2,3,4,7,8-HxCDF	•	-	2.749 J	4.377 J	13.473 J	2.354 J	2.168 J	8.953 J	0.091 U
8,9-HxCDF -	1,2,3,6,7,8-HXCDD	1	-	0.391 U	1.329 J	0.797 U	0.184 U	0.195 U	1.713	0.135 U
8-PeCDD - 0.449 U 0.181 U 0.913 U 0.211 U 0.224 U 0.870 8-PeCDD - - 0.530 U 1.027 J 1.975 U 0.243 U 0.398 U 0.775 U 8-PeCDF - - 0.652 U 0.206 U 1.044 U 0.506 U 1.361 1-CDB - - 0.538 UJ 0.372 U 1.693 U 0.209 U 0.301 J 1.851 J 1-CDB - - 0.306 U 1.119 J 0.251 U 0.144 U 0.388 J 0.322 U 1-CDF - - 178.019 J 756.461 269.807 71.891 827.747 - - 178.019 J 756.461 269.807 71.891 827.747 - - 5.307 2.3.689 30.361 3.743 4.122 53.484 Acity equivalency 6.67b 875° 0.675 4.03 3.09 0.432 0.924 4.28	1,2,3,6,7,8-HXCDF			0.557 U	0.1% U	0.565 U	0.461 U	0.433 U	1.055 J	0.068 U
7.8-HkCDF - - 0.532 U 0.205 U 1.044 0.730 U 0.538 U 0.775 U 7.8-HkCDF - - 0.652 U 0.206 U 1.044 0.730 U 0.506 U 1.361 18-PeCDF - - 0.538 UJ 0.372 U 1.693 0.209 U 0.301 J 1.851 J TCDD - - 0.306 U 1.119 J 0.251 U 0.144 U 0.388 J 0.322 U TCDF - - 0.224 UJ 0.7219 1.705 0.499 0.3798 1.880 TCDF - 178.019 J 756.461 269.807 79.196 71.891 827.747 - - 5.307 23.689 30.361 3.743 4.122 53.484 xicity equivalency 6.67b 875c 0.675 4.03 3.09 0.432 0.924 4.28	1 2 3 7 8 Doctor	ł :	•	0.449 U	1.027 #	1.075 11	0.211 U	0.224 U	0.870	0.155 U
R-PeCDF - </td <td>1,4,5,1,0-1 CODD</td> <td>,</td> <td>•</td> <td>0.0550</td> <td>1.027</td> <td></td> <td>0.243 U</td> <td>0.398 U</td> <td>0.775 U</td> <td>0.180 U</td>	1,4,5,1,0-1 CODD	,	•	0.0550	1.027		0.243 U	0.398 U	0.775 U	0.180 U
CODE - - 0.336 UJ 0.312 U 1.693 0.209 U 0.301 J 1.851 J 1.851 J TCDD - - 0.306 U 1.119 J 0.251 U 0.144 U 0.388 J 0.322 U TCDF - - 0.224 UJ 0.7219 1.705 0.499 0.3798 1.880 - 178.019 J 756.461 269.807 79.196 71.891 827.747 xicity equivalency 6.67° 875° 0.675 4.03 30.361 3.743 4.122 53.484 xicity equivalency 6.67° 875° 0.675 4.03 3.09 0.432 0.924 4.28	2,3,4,6,7,8-HXCDF	'	•	0.652 U	0.206 U	1.044	0.730 U	0.506 U	1.361	0.080 U
-1CDD 0.306 U 1.119 J 0.251 U 0.144 U 0.388 J 0.322 U 0.17DF 0.224 UJ 0.7219 1.705 0.499 0.3798 1.880 1.880	2,3,4,7,0-recur	•	•	U. 35C.U	0.372 U	1.693	0.209 U	0.301 J	1.851 J	0.093 U
-1CDF 0.224 UJ 0.7219 1.705 0.499 0.3798 1.880 1.880	2,3,7,8-1CDD	1	•	0.306 U	1.119 J	0.251 U			0.322 U	0.097 U
178.019 J 756.461 269.807 79.196 71.891 827.747 - 5.307 23.689 30.361 3.743 4.122 53.484 xicity equivalency 6.67 ^b 875 ^c 0.675 4.03 3.09 0.432 0.924 4.28	2,3,7,8-1CDF		•	0.224 UJ	0.7219	1.705	0.499	0.3798	1.880	0.414
23.689 30.361 3.743 4.122 53.484 oxicity equivalency 6.67 ^b 875 ^c 0.675 4.03 3.09 0.432 0.924 4.28	OCDD	-	•	178.019 J	756.461	269.807	79.196	71.891	827.747	3.764 U
3.09 0.432 0.924 4.28 3.09 0.432 0.924 4.28	OCDF	-	•	5.307	23.689	30.361	3.743	4.122	53.484	0.212 U
	I otal toxicity equivalency	6.67°	875°	0.675	4.03	3.09	0.432	0.924	4.28	0.045

Cocation Residential Industrial Indus				Table	Table 3-2 (CONTINUED)	NUED)				
Residential Industrial Indu	L^	ANDFILL S		ACE SOIL S WENATO	AMPLE AN THEE, WAS	AALYTICAI HINGTON	RESULTS	SUMMARY		
Cleanup Cleanup Liousebad Liouseba		Residential	Industrial							
Standards Stan	LOCATION ID	Cleanup	Cleanup	LF03SB04	LF03SB12	LF03SB22	LF03SB32	LF07SB04	LF07SB12	LF07SB22
6,900,000° 27,000,000° 28 32 21 26 11 U 12 U 130 130 11 U 12 U 130 130 11 U 11 U 12 U 18 U 13 U 11 U 11 U 11 U 12 U 18 U 13 U 11 U	DEPTH			1 1	1	18 - 22 ft bgs	28 - 32 ft bgs	0 - 4 ft bgs	8 - 17 tt pgs	18 - 44 H USS
6,500,000 ² 27,000,000 ⁴ 28 32 110 110 12 110 12 110 12 110 12 110 12 110 12 110 12 110 110 110 12 12	VOCs (ug/kg)	10000								101
8,000,000¢ 350,000,000 110 12 U 18 U 13 U 11	2-Butanone	6,900,000 ^d	2	28	32	21	26	11 0		r or
11	Acetone	8,000,000°	35	120	100	150		11 U	72 U	64 U
Parcele	Benzene	500ª		11 U	12 U	. 18 U	13 U	11 U	11 U	12 U
20,000° 20,000° 11 U 12 U 18 U 13 U 11 U 11 U 11 U 12 U 18 U 13 U 11 U 11 U 11 U 11 U 12 U 18 U 13 U 11 U 12 U 18 U 13 U 11 U 1	Chlorobenzene	1.600.000 ^b	70,000,000°	U 11	12 U	18 U				12 U
11	Ethylbenzene	20.000ª	20,000ª		12 U	18 U	13 U	11 U	11 U	12 U
ene 24,000,000 ^b 210,000,000 360 U 380 U 91 J 420 U 720 U 350	Xulene (total)	20,000	20 000	11 U	12 U	U 8 I	13 U	11 U	11 U	12 U
ene -	Affelie (total)	20,000	20,000							
ente 4,800,000b 210,000,000 360 U 380 U 91 J 420 U 720 U 350 U 24,000,000b 100,000,000 360 U 380 U 420 UJ 720 U 720 U 350 U tene 137b 18,000° 360 U 380 U 420 UJ 420 U 720 U 350 U tene 137b 18,000° 360 U 380 U 420 UJ 420 U 720 U 350 U phthalate 71,400b 9,370,000° 360 U 380 U 420 UJ 720 U 330 U late 16,000,000b 700,000,000 360 U 380 U 1600 J 720 U 350 U so,000b 6,560,000° 360 U 380 U 150 J 420 U 720 U 350 U te 8,000,000b 360 U 380 U 160 J 420 U 720 U 350 U te 8,000,000b 360 U 380 U 160 J 420 U 720 U 350 U e 8,000,000b 140,000,000				11 076	11 080	1 000	420 11	720 U	f 99	58 J
thene 4,800,000° 210,000,000 360 U 380 U 91J 420 U 720 U 350 U 350 U 137° I8,000° 360 U 380 U 420 UJ 720 U 720 U 350 U 350 U 350 U 420 UJ 420 UJ 720 U 350 U 350 U 350 U 420 UJ 420 UJ 720 U 350 U 350 U 350 U 420 UJ 420 UJ 720 UJ 350 U 350 U 350 U 420 UJ 420 UJ 720 UJ 350 U 350	2-Methylnaphthalene	<u> </u>	1	2000	2000		11 007	11 002	350 11	410 U
ene 24,000,000° 100,000,000° 360 U 380 U 91 J 420 U 720 U 350 U Opyrene 137° 18,000° 360 U 380 U 420 UJ 420 U 720 U 350 U Ofluoranthene 137° 18,000° 360 U 380 U 420 UJ 420 U 720 U 350 U Ofluoranthene 137° 18,000° 360 U 380 U 420 UJ 420 U 720 U 350 U Ofluoranthene 137° 18,000° 360 U 380 U 420 UJ 420 U 720 U 350 U Itylhevyl)phthalate 16,000,000° 360 U 380 U 160 J 420 U 720 U 350 U Je 1137° 18,000° 360 U 380 U 150 J 420 U 720 U 350 U Je 1137° 18,000° 360 U 380 U 420 U 720 U 350 U Je 1137° 1120 J 420 U 720 U 350 U 350 U Atbildhthalate	Acenaphthene	4,800,000 ^b	210,000,000	360 U	380 0	6 16	0 024	0 07/	2000	11 011
Opyrene 137b 18,000° 360 U 380 U 420 UJ 420 U 720 U 350 U 54 J Ophroranthene 137b 18,000° 360 U 380 U 420 UJ 420 U 720 U 54 J Othroranthene 137b 18,000° 360 U 380 U 420 UJ 720 U 720 U 350 U Anzylphthalate 71,400b 9,370,000° 360 U 380 U 420 U 720 U 350 U Anzylphthalate 16,000,000b 700,000,000 360 U 380 U 420 U 720 U 350 U Angle 18,000,000b 3560 U 380 U 420 U 720 U 350 U Atylphthalate 8,000,000b 350,000,000 360 U 380 U 420 U 720 U 350 U Atylphthalate 8,000,000b 350,000,000 360 U 380 U 420 U 720 U 350 U Atylphthalate 8,000,000b 350,000 360 U 380 U 420 U 720 U 350 U Atell <td>Anthracene</td> <td>24,000,000^b</td> <td>100,000,000</td> <td>O 09E</td> <td>380 U</td> <td>91 J</td> <td>420 U</td> <td>720 U</td> <td>320 U</td> <td>410 0</td>	Anthracene	24,000,000 ^b	100,000,000	O 09E	380 U	91 J	420 U	720 U	320 U	410 0
137b 18,000° 360 U 380 U 420 UJ 420 U 720 U 350 U 35	Вепхо(а)ругепе	137 ^b	18,000°	O 09E	380 U	420 UJ		720 U	350 U	410 U
thylhexyl)phthalate 71,400b 9,370,000° 620 380 U 420 UJ 420 U 720 U 330 J 530 U 50000	Benzo(b)fluoranthene	137 ^b	18,000°	360 U	380 U	420 UJ		720 U	54 J	410 U
thylhexyl)phthalate 71,400b 9,370,000c 620 380 U 4,900 J 140 J 720 U 330 J 330 U nzylphthalate 16,000,000cb 700,000,000 360 U 360 U 1,600 J 420 U 720 UJ 350 U 350 U ne 137b 18,000c 360 U 360 U 380 U 120 J 420 U 720 U 350 U 350 U ntylphthalate 8,000,000b 350,000,000 360 U 380 U 420 U 720 U 350 U 350 U ylphthalate 8,000,000b 350,000,000 360 U 380 U 420 U 720 U 350 U 350 U thene 3,200,000b 140,000,000 360 U 380 U 160 J 420 U 720 U 350 U 350 U ee 3,200,000c 140,000,000 360 U 380 U 160 J 420 U 720 U 350 U 350 U ie 3,200,000c 140,000,000 360 U 380 U 160 J 420 U 720 U 36 J	Benzo(k)fluoranthene	137 ^b	18,000€	U 09E	380 U	420 UJ		720 U	350 U	410 U
razylphthalate 15,000,000 b 700,000 b 700,000 b 750 U 350 U 350 U 350 U sle 50,000 b 6,560,000 c 360 U 380 U 190 J 420 U 720 UJ 350 U re 137 b 18,000 c 360 U 380 U 150 J 420 U 720 U 350 U rylphthalate 8,000,000 b 350,000,000 360 U 380 U 420 U 720 U 350 U whene 3,200,000 b 140,000,000 360 U 380 U 130 J 420 U 720 U 350 U re 3,200,000 b 140,000,000 360 U 380 U 160 J 420 U 720 U 350 U re 3,200,000 b 140,000,000 360 U 380 U 160 J 420 U 720 U 350 U alene 3,200,000 b 140,000,000 360 U 380 U 160 J 420 U 720 U 38 J threne 3,200,000 b 140,000,000 360 U 380 U 160 J 420 U	Bis/2-ethylhexyl)phthalate	71.400°	9.370.000	620	380 U	4,900 J	140 J	720 U	330 J	270 J
le 50,000 b 6,560,000 360 U 380 U 120 J 420 U 720 U 350 U 350 U le trylphthalate 8,000,000 350,000 360 U 380 U 130 J 420 U 720 U 350 U 350 U sthene 3,200,000 140,000,000 360 U 380 U 150 J 420 U 720 U 720 U 350 U sthene 3,200,000 140,000,000 360 U 380 U 160 J 420 U 720 U 720 U 350 U stee 3,200,000 140,000,000 360 U 380 U 160 J 420 U 720 U 350 U 350 U stee 3,200,000 140,000,000 360 U 380 U 160 J 420 U 720 U 350 U 350 U threne 3,200,000 140,000,000 360 U 380 U 380 U 160 J 420 U 720 U 350 U 350 U threne 2,400,000 105,000 360 U	Butylbenzylohthalate	16 000 000	700,000,000	U 09E	J 380 U	1,600 J	420 U	320 J	350 U	410 U
tep 137b 18,000c 360 U 57 J 120 J 420 U 720 U 350 U 350 U typhthalate 8,000,000b 350,000,000 360 U 380 U 420 UJ 420 U 720 U 350 U 350 U thene 3,200,000b 140,000,000 360 U 380 U 130 J 420 U 720 U 350 U te 3,200,000b 140,000,000 360 U 380 U 160 J 420 U 720 U 350 U alene 3,200,000b 140,000,000 360 U 380 U 160 J 420 U 720 U 54 J threne - 3500,000 360 U 380 U 160 J 420 U 720 U 38 J threne - 360 U 380 U 610 J 420 U 720 U 38 J 2400,000b 105,000,000 360 U 380 U 420 U 720 U 38 J	Carbazole	50.000 ^b	6,560,000°		380 U	190 J	420 U	720 U.		410 U
trylphthalate 8,000,000	Chrysene	137 ^b	18.000°		57 J	120 J	420 U	720 U		410 U
Applithalate 80,000,000b 350,000,000 360 U 380 U 420 UJ 420 U 720 U 350 U 350 U Ithene 3,200,000b 140,000,000 360 U 380 U 130 J 420 U 720 U 350 U 350 U alene 3,200,000b 140,000,000 360 U 380 U 160 J 420 U 720 U 54 J alene 3,200,000b 140,000,000 360 U 380 U 610 J 420 U 720 U 38 J threne - 360 U 360 U 360 U 360 U 720 U 720 U 38 J	Di-n-butvlohthalate	8 000 000 a	350,000,000	360 U	380 U		420 U	720 U	350 U	410 U
thene 3,200,000 b 140,000,000 360 U 380 U 210 J 420 U 120 J 350 U 350 U le 3,200,000 b 140,000,000 360 U 380 U 160 J 420 U 720 U 350 U 54 J alene 3,200,000 b 140,000,000 360 U 380 U 610 J 420 U 720 U 38 J 38 J threne - 360 U 360 U 360 U 360 U 720 U 720 U 38 J 79 J	Dimethylphthalate	80 000 000	350,000,000	360 U	380 U				350 U	410 U
le 3,200,000	Fluoranthene	3 200.000 ^b	140,000,000	360 U	380 U	210 J	420 U	120 J	350 U	410 U
alene 3,200,000b 140,000,000 360 U 380 U 160 J 420 U 720 U 54 J 45 J threne - - 360 U 380 U 610 J 420 U 720 U 38 J 38 J 2,400,000b 105,000,000 360 U 39 J 230 J 420 U 210 J 79 J 79 J	Fluorene	3,200,000 ^b	140,000,000	360 U	380 U	130.J	420 U	720 U	350 U	410 U
threne - 360 U 380 U 610 J 420 U 720 U 38 J 38 J 2400,000 105,000,000 360 U 39 J 420 U 210 J 79 J	Naphthalene	3,200,000 ^b	140,000,000	O 09E	380 U	160 J	420 U	720 U	54 J	410 U
2,400,000 ^b 105,000,000 360 U 39 J 230 J 420 U 210 J 79 J	Phenanthrene			360 U	380 U		420 U			f 99
	Pyrene	2,400,000 ^b	105,000,000	Ω 09ε		230 J	420 U		79 J	410 U

			Table	Table 3-2 (CONTINUED)	INUED)				
T	LANDFILL SU		ACE SOIL	TE SOIL SAMPLE ANALYTICA	NALYTICA HINGTON	IBSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE WASHINGTON	SUMMAR		
CLP INORGANIC NUMBER	Residential	Industrial		1					
LOCATION ID	Cleanup	Cleanup	LF03SB04	LF03SB12	LF03SB22	LF03SB32	LF07SB04	LF07SB12	LF07SB22
DEPTH	Standards	Standards	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft bgs	28 - 32 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft bgs
Pesticides/PCBs (µg/kg)									
4,4'-DDD	4,170 ^b	547,000°	38	120	099	0.51 J	13	51	110
4,4'-DDE	2,940 ^b	386,000°	6	210	95 J	0.63 J	92	19	33
4,4'-DDT	1,000	5,000	8.5	8.7	9.3 J	5.7	7.3 J	7.7	5.9 J
Aldrin	58.8 ^b	7,720°	1.8 U	4.0 U	2.2 U	2.2 U	1.8 U	1.8 U	2.1 U
Alpha-BHC	159 ^b	20,800°	1.8 U	4.0 U	22 J	0.22 U	1.8 U	1.8 U	4.2
Alpha-chlordane	₄ 69 <i>L</i>	101,000°	1.8 U	4.0 U	f 9.6	2.2.U	1.8 U	1.8 U	2.1 U
Aroclor1242	1,000	10,000	36 U	Ω //	42 U	42 U	19E	35 U	41 U
Aroclor1254	1,000	10,000	36 U	Ω 44	470	42 U	36 U	35 U	40 J
Beta-BHC	556 ^b	72,900°	1.8 U	4.0 U	16 J	2.2 U	1.8 U	3.4 J	10 J
Delta-BHC	-	-	1.8 U	4.0 U	2.2 U	2.2 U	1.8 U	1.8 U	2.1 U
Dieldrin	62.5 ^b	8,200°	6.1	L 2.7	10 J	4.2 U	5.5	3.5 U	4.1 U
Endosulfan I	480,000 ^b	21,000,000°	1.8 U	4.0 U	2.2 U	2.2 U	1.8 U	1.8 U	2.1 U
Endosulfan sulfate	ı	1	3.6 U	7.7 U	11 J	4.2 U	3.7 J	3.5 U	4.1 U
Endrin	24,000 ^b	1,050,000°	3.6 U	U 7.7 U	4.2 U	0.97 J	3.6 U	3.5 U	4.1 U
Endrin aldehyde	1	•	3.6 U	U 7.7 U	4.2 U	4.2 U	5.4 J	3.5 U	4.1 U
Endrin ketone	-		3.6 J	7.7 U	4.2 U	4.2 U	8.1 J	3.5 U	4.1 U
Gamma chlordane	-		1.8 U	2.2 J	18 J	2.2 U	1.8 U	1.8 U	2.1 U
Inorganies (11g/kg)									
Antimony	30 _d	750 ^d	R	R	2.5 J	R	R	1.7 J	2.9 J
Arsenic	20ª	200.0ª	20.7 J	43.9 J	9.3 J	1.6 J	<u>28.9</u> J	12.1 J	13.4 J
Barium	5,600 ^b	245,000°	9.68	126	182	137	94.2	99.5	284
Beryllium	0.233 ^b	30.5°	0.23 J	<u>0.36</u> J	0.16 J	0.32 J	0.30 J	0.28 J	0.33 J
Cadmium	2ª	10.0ª	0.11 J	0.44 J	0.24 J	0.13 U	0.11 U	0.11 U	1.2
Chromium	100ª	. 500.0ª	17.4	17.5	28.8	19.1	17.3	19.4	28.2
Cobalt	3,300 ^d	29,000 ^d	6.6 J	f 9.9	8.8 J	11.0 J	f 8.9	6.7 J	8.7 J
Key is at the end of the table.									

			Table	Table 3-2 (CONTINUED)	NUED)				
LA	LANDFILL SU		ACE SOIL SAMP) WENATCHEE.	AMPLE AN	E ANALYTICAL WASHINGTON	BSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHFE, WASHINGTON	SUMMARY		
CI D INORCANIC NIMBER	Residential	Industrial							
LOCATION ID	Cleanup	Cleanup		LF03SB12	LF03SB22	LF03SB32	LF07SB04	LF07SB12	18 - 22 ft has
DEPTH	Standards	Standards	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft bgs	28 - 32 tt bgs	0 - 4 It ngs	0 - 12 10 23	10 - 44 to 5
Inorganics (H2/kg)							96,	111	7 20
Соррег	2,960 ^b	130,000°	15.1	15.3	35.8	18.3	13.0	1/.1	93.7
Tead	2504	1.000.0	88.8 J	<u>385</u> J	165 J	13.2 J	132	35.6	437
Manganese	11 200 ^b	490,000°	395	420	377	547	352	325	477
Mercury	100	1.0	0.05 U	0.05 U	0.06 U	0.06 U	0.05 U	0.05 U	0.08 J
Nickel	1 600 ^b	70 000°	13.0	12.8	23.3	26.4	26.8 J	22.6 J	30.5 J
Solonium	400p	17 500°	1.5 U	1.7 U	2.6 U	1.8 U	1.5	1.1	2.2
Scientin	quor	17 500	0.79 J	0.71 J	1.3 J	0.93 J	f 69.0	0.84 J	1.6 J
Thelling	44.5	2450	0.71 U	1.2 J	2.2 J	1.4 J	0.70 U	0.71 U	1.0 J
Inamum	0.0	2005	956	36.4	37.4	9.09	33.4	34.8	43.8
Vanadium	200	24,300	1 1 1 2	1 200	1 870	I 0 69	78.3	160	505
Zinc	24,000°	1,050,000	ر ۲۰/۵	C /77	P 047	0 0.00			
Dioxins/Furans (ng/kg)									
11 2 3 4 6 7 8-HnCDD	-	,	25.827	8.306	NA	1.091	NA	NA	NA
1 2 4 6 7 8-HnCDF	1	-	5.727	3.609	NA	0.090 U	NA	NA	NA
1 2 3 4 7 8 9-HnCDF		-	0.940 U	0.370 U	NA	0.127 U	NA	NA	NA
1 2 3 4 7 8-H×CDD	,	-	0.414 U	0.259 U	NA	0.145 U	NA	NA	NA
11 2 3 4 7 8-HxCDF	1	-	3.382 J	1.630 J	NA	0.096 U	NA	NA	NA
1 2 3 6 7 8-HxCDD		-	0.279 U	0.174 U	NA	0.098 U	NA	NA	NA
1 2 3 6 7 8-HxCDF	-	1	0.190 U	0.133 U		0.072 U	NA	NA	NA
1.2.3.7.8.9-HxCDD	-		0.320 U	0.200 U	NA	0.112 U	NA	NA	NA
1.2.3.7.8-PeCDD	.1	ı	0.384 U	0.280 U	NA	0.102 U	NA	NA	NA
2.3.4.6.7.8-HxCDF			0.222 U	0.156 U	NA	0.084 U	NA	NA	NA
2.3.4.7.8-PeCDF	1	,	0.265 U	0.123 U	NA	0.077 U	NA	NA	NA
2,3,7,8-TCDD	1	1	U 271.0	0.183 U	NA .	0.091 U	NA	NA	NA
2,3,7,8-TCDF	1	1	0.200 U	0.173 U	NA	0.417	NA	NA	NA
OCDD	,t	1	1 688.95E	67.347	NA	7.548 U	NA	NA	NA
OCDF	-	-	15.725	7.591	NA	0.168 U	NA	NA	NA
Total toxicity equivalency	6.67 ^b	875°	1.02	0.357	NA	0.001	NA	NA	NA
Key is at the end of the table.									_

			Table	Table 3-2 (CONTINUED)	(NUED)		1		
	LANDFILL SU		ACE SOIL WENAT	BSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON	(ALYTICA) HINGTON	L RESULTS	SUMMARY		
	Residential	Industrial							
LOCATION ID	Cleanup	+-	LF08SB04	LF08SB12	LEITSSOO	T D11CD12	T THE S CONTRACT		
DEPTH	Standards	-	0 - 4 ft bgs	8 - 12 ft bgs	0 - 4 ff bas	8 - 12 ft han	10 32 6.1	LF12SB04	LF12SB12
VOCs (µg/kg)				Ġ	90	· 1833	sgg 11 77 - oI	0 - 4 ft bgs	8 - 12 ft bgs
2-Butanone	6,900,000 ^d	27,000,000 ^d	11 U	3.5	21.17	1 1	11 11		
Acetone	8,000,000°	_	11 U	11 61	11 001	11.31	0 11	11 UJ	f 6
Benzene	. 500ª		11 U	12 U	11 11	11 11	43		37 U
Chlorobenzene	1,600,000 ^b	9	11 U	12 U		11.11	11 0		2 J
Ethylbenzene	20,000ª	_	11 0	11 11	17		11 0	0 II 0	12 U
Xylene (total)	20.000ª	20,000	11 11	21 21	11	0 11	O II	11 U	24
) OOK	20,000	70,000	0 11	0 7I	46	11 U	11 U	11 U	90
STATE OF THE PARTY									
2-Methylnaphthalene	,		350 U	410 U	290 J	1 76 1 T	350 11	111 026	. 00,
Acenaphthene	4,800,000 ^b	210,000,000	350 U	410 U	350 U	380 11	350 11	360 U	17007
Anthracene	24,000,000 ^b 100,	100,000,000	350 U	410 U	350 11	380 11	250 0	0 000	400 0
Benzo(a)pyrene	137 ^b	18,000€	350 U	410 U	350 11	380 11	250 01	360 0	400 U
Benzo(b)fluoranthene	137 ^b	18 000°	350 11	410 II	350 11	2000	0.000	390 0	400 0
Benzo(k)fluoranthene	137b	10,000	350 11	11017	0 055	52.5	350 U	360 U	100 J
Bis(2-ethylhexyl)phthalate	13/ 71 400b	0 370 0006	2000	410 0	350 0	380 U	350 U	360 U	87 J
Butylbenzylphthalate	17,000,000 J	700,000,000	500 TI	f 89	72 J	300 J	230 J	64 J	820
Carbazole	10,000,000 /00,000,000	700,000,000	0 000	410 0	350 0	380 U	350 U	360 U	92 J
Chrisena	00,000	6,560,000°	350 0	410 U	350 U	380 U	350 U	360 U	400 U
Out your	137°	18,000°	350 U	410 U	350 U	71 J	350 U	360 U	130 J
U-it-butyipumalate	8,000,000°	350,000,000	350 U	410 U	350 U	380 U	350 U	360 U	50 J
Umetnylphthalate	80,000,000° 350,000,000	350,000,000	350 U	410 U	350 U	380 U	350 U	360 U	400 11
Fluoranthene	3,200,000 ^b 140,000,000	140,000,000	350 U	410 U	350 U	120 J	350 U	360 U	J. 57
Fluorene	3,200,000 ^b	140,000,000	350 U	410 U	140 J	380 U	350 U	360 11	11 007
Naphthalene	3,200,000 ^b 1	140,000,000	350 U	410 U	48 J	150 J	350 U	11 098	1 021
Phenanthrene	1	-	350 U	410 U	250 U	92 J	350 11	360 11	1 20
Pyrene	2.400.000 ^b 105.000.000	05,000,000	350 U	410 U	36 J	120.1	350 11	360 11	00 5
Key is at the end of the table						, , , , ,	0.000	0 000	L 06

			Table	Table 3-2 (CONTINUED)	NUED)				
Ľ	ANDFILL S	SUBSURFA	ACE SOIL SAMPI WENATCHEE.	SAMPLE AN	LE ANALYTICAI WASHINGTON	RESULTS	LANDFILL SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON		
CT D INOP CANITY NITH BER	Residential	Industrial						·	
LOCATION ID	Cleanup	Cleanup	LF08SB04	LF08SB12	LF11SS00	LF11SB12	LF11SB22	LF12SB04	LF12SB12
DEPTH	Standards	Standards	0 - 4 ft bgs	8 - 12 ft bgs	0 - 4 ft bgs	8 - 12 It bgs	säa 11 77 - 81	0 - 4 11 0gs	0 - 17 11 69
Pesticides/PCBs (µg/kg)							1136	12	46
4,4'-DDD	4,170 ^b	547,000°	29	100	37	31	3.3 U	37	2
4DDE	2.940 ^b	386,000°	52	24	17	17	2.6 J	54	36
4.4-DDT	1,000	5,000 ^a	3.5 U	7.2 J	3.5 U	2.1 J	3 J	2.2 J	
Aldrin	58.8 _b	7.720°	1.8 U	2.1 U	1.8 U	2.0 U	1.8 U	1.9 U	2.1 U
Alpha-BHC	159 ^b	20,800°	1.8 U	2.1 U	1.8 U	2.0 U	1.8 U	1.9 U	2.1 U
Alpha-chlordane	469L	101.000	2.0	26 J	5.5 J	2.0 U	1.8·U	1.9 UJ	3.4 J
Aroclor 1242	1 000ª	10.000	35 U	41 U	35 U	38 U	35 U	36 U	150 J
Aroclor 1254	1.000	10,000	35 U	41 U	35 U	38 U	35 U	36 U	
Beta-BHC	556 ^b	72,900€	1.8 U	3.3 J	1.9 U	4.1 J	1.8 U	1.9 U	
Delta_RHC	-		1.8 U	2.1 U	1.8 U	2.0 U	1.8 U	1.9 U	2.1 U
Dieldrin	62.5 ^b	8,200°	1.6 J	5.8 J	2.7 J	1.1 J	3.5 U	3.6 U	4.2
Endosulfan I	480,000 ^b	21,000,000	1.8 U	2.1 U	1.8 U	2.0 J	1.8 U	1.9 U	2.1 U
Endosiifan siilfate	, ,	ı	3.5 U	4.1 U	3.5 U	3.8 U	3.5 U	3.6 U	4.0 U
Endrin	24,000 ^b	1,050,000°	3.5 U	. 4.1 U	3.5 U	3.8 U	0.95 J	3.6 U	4.0 U
Fudrin aldehyde	-	1	3.5 U	4.1 U	3.5 U	3.8 U	3.5 U	3.6 U	4.0 U
Endrin ketone	1	-	3.5 U	4.1 U	3.5 U	3.8 U	3.5 U	3.6 U	4.0 U
Gamma chlordane	- 1	•	2.6 J	28	6.2 J	2.6	1.8 U	1.9 U	4.6
Inorganics (112/kg)									-
Antimony	309	P057	R	R	R	1.0 J	1.5 J	æ	저
Arsenic	208	200.0	7.1 J	7.4 J	6.5 J	7.1 J	4.6 J	9.3 J	13.6 J
Barium	5.600 ^b	245,000	93.5	394	102	120	96.1	92.8	107
Beryllium	0.233 ^b	30.5°	0.32 J	0.48 J	0.25 J	0.23 J	0.21 J	<u>0.36</u> J	0.46 J
Cadmium	2ª	10.0	0.11 U	0.11 U	0.11 U	0.24 J	0.11 U	0.11 U	
Chromium	100	500.0	21.6	34.9	21.6 J	21.4 J	18.3 J	18.7 J	18.2 J
Cobalt	3,300 ^d	29,000 ^d	F.8.9	8.6 J	f 8.9	6.6 J	6.7 J	6.7 J	7.1 J
Key is at the end of the table.									

CLCATIONICALIVE NUMBER Residential Industrial Ind				Table	Table 3-2 (CONTINUED)	NUED)				
Color Colo	Γ_{L}	ANDFILL	SUBSURE	ACE SOIL S	SAMPLE AN CHEE, WAS	ALYTICA HINGTON	L RESULTS	SUMMARY	λ.	
ATION ID Cleanup Cleanup LF08SB04 LF0SB12 LF11SB12 LF11SB12 LF11SB14 L	CLP INORGANIC NUMBER	Residential	Industrial							
Internation Standards St	LOCATION ID	Cleanup	Cleanup	LF08SB04	LF08SB12	LF11SS00	LF11SB12	LF11SB22	LF12SB04	I.F12SB12
State Stat		Standards	Standards	0 - 4 ft bgs	- 12	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs
1,000 16,1 42,7 26,3 42,9 23,2 15,5										0
1,200	Copper	2,960 ^b	130,000°	16.1	42.7	26.3	42.9	23.2	15.5	22.9
1,200° 490,00° 313 353 310 299 201 260 260 261 260 261 260 262 211 260 262 211 262 212	Lead	250ª	1,000.0	92.3	164	230 J	104 J	20.2 J		121.1
1,0° 1,0°	Manganese	11,200 ^b	490,000°	313	353	310	299	201		284
1 1,600b 70,000° 14.5 J 26.2 J 18.2 27.6 19.8 14.3 1.4 1.5 mm 400b 17,500° 1.6 1.9 1.6 1.7 1.4 1.5 1.4 1.5 1.6 1.7 1.4 1.5 1.5 1.5 1.5 1.6 1.1 1.0 0.7 0.70 0.99 J 1.5 1.1 0.7 0.7 0.99 J 1.5 1.5 0.7 0.7 0.99 J 1.5 1.5 0.7 0.7 0.99 J 1.5 0.7 0.7 0.99 J 1.5 0.7	Mercury	1.0ª	1.0ª	0.05 U	0.05 U	0.05 U	0.90	0.05 U	0.05 11	11 90 0
um 400° 17,50° 1.6 1.9 1.6 1.7 1.4 1.5 1.6 1.7 1.4 1.5 1.6 1.1 1.0 0.77 1.5 1.5 1.5 1.6 1.1 1.0 0.77 0.75 0.95 1 1.1 1.0 0.77 0.75 0 9.5 24,5°° 0.98 1.6 1.1 1.0 0.77 0.77 0.75 0 9.5 1 1.1 1.0 0.77 0 0.99 1 film 5.6° 24,50° 32.7 41.2 31.8 37.4 34.1 34.2 34.2	Nickel	1,600 ^b	70,000°	14.5 J	26.2 J	18.2	27.6	19.8	14.3	15.4
um 5.6° 0.87 J 1.1 J 0.75 J 1.3 J 0.77 J 0.75 J lim 5.6° 245° 0.98 J 1.6 J 1.1 J 1.0 J 0.70 J 0.99 J lim 5.6° 24,500° 32.7 41.2 31.8 37.4 34.1 34.1 1.6.7.8-HpCDD - NA NA 1.38 J 269 J 36.7 J 36.5 J 1.5.5.8-HpCDF - NA NA 1.381 J 2.551 J 0.553 J 0.857 U 1.5.8-HpCDF - NA NA 1.381 J 2.551 J 0.553 J 0.857 U 1.2.8-HxCDF - NA NA NA 1.131 J 2.554 J 0.213 U 0.730 U 1.7.8-HxCDF - NA NA NA 1.113 J 2.254 J 0.278 U 0.730 U 1.7.8-HxCDF - NA NA 1.113 J 2.254 J 0.218 U 0.210 U 1.7.8-HxCDF - NA NA NA	Selenium	400b	17,500°	1.6	1.9	1.6	1.7	1.4	1.5	1.7
um 5.6° 245° 0.98 J 1.6 J 1.1 J 1.0 J 0.7 U 0.99 J lim 560° 24,500° 32.7 41.2 31.8 37.4 34.1 34.1 34.1 list 24,000° 1,050,000° 59.4 151 96.8 J 26.9 J 36.7 J 34.1 34.1 34.1 list 3.4,8-HpCDD - - NA NA 11.381 23.511 6.53 0.857 U list 3.4,8-HpCDP - - NA NA 11.381 23.511 6.53 0.857 U list 3.4-HpCDP - - NA NA 11.381 23.511 6.53 0.857 U list 3.4-HpCDF - - NA NA NA 1.1381 23.511 6.553 0.857 U list 1.3-HyCDF - - NA NA 1.173 1.144 U 0.135 U 0.273 U list 1.3-HyCDF -<	Silver	400b	17,500°	0.87 J	1.1 J	0.76 J	1.3 J	0.77 J	L 57.0	1.0.1
tinn 560 ^b 24,500 ^c 32.7 41.2 31.8 37.4 34.1 34.1 34.1 tiss/fairans (tig/light) 24,000 ^b 1,050,000 ^c 59.4 151 96.8 J 26.9 J 80.7 J 30.5 J 16,7.8-HpCDD - NA NA 11.381 23.511 0.533 0.857 U 1.207 U 1,5.2-HpCDF - - NA NA 11.381 23.511 0.533 0.857 U 1,7.8-HpCDF - - NA NA NA 1.05 U 0.223 U 1.207 U 1,7.8-HpCDF - - NA NA NA 25.284 J 4.121 J 0.235 U 0.837 U 1,7.8-HpCDF - NA NA 1.713 J 2.254 J 0.213 U 0.735 U 1,7.8-HpCDF - NA NA 1.713 J 2.254 J 0.235 U 0.735 U 1,7.8-HpCDF - NA NA 1.713 J 2.254 J 0.235 U 0.235 U	Thallium	5.6 ^b	245°	0.98 J	1.6 J	1.1 J	1.0 J	0.7 U	J. 66.0	11 17 0
15.5 January 151 96.8 January 26.9 January 80.7 January 50.5 January 16.7 S-HpCDD - NA NA 51.369 106.124 January 1.333 January 44.210 January 1, 58 S-HpCDF - NA NA 11.381 23.511 0.553 0.857 U 1, 78 S-HpCDF - NA NA 1.1381 23.511 0.523 U 1.207 U 1, 78 S-HpCDF - NA NA 1.1381 23.511 0.523 U 1.207 U 1, 78 S-HpCDF - NA NA NA 20.36 U 1.205 U 1.207 U 1, 78 S-HxCDF - NA NA 1.712 J 2.254 J 0.273 U 0.739 U 1, 78 S-HxCDF - NA NA 1.744 J 0.238 U 0.238 U 2, 28 S-HxCDF - NA NA 1.744 J 0.230 U 0.237 U 0.230 U 28 S-ECDF - NA NA 0.543 U 0.253 U 0.238 U	Vanadium	₄ 095	. 24,500°	32.7	41.2	31.8	37.4	34.1	34.1	32.8
16.57.8-HpCDD - NA NA 51.369 106.124 J 1.333 J 44.210 J 1.65.78-HpCDF - - NA NA 11.381 23.511 0.553 0.857 U 1.78.9-HpCDF - - NA NA 11.381 23.511 0.553 0.857 U 1.78.9-HpCDF - - NA NA 11.381 23.511 0.553 0.857 U 1.78.4-HpCDF - - NA NA 25.284 J 4.127 J 1.097 U 1.78.4-HpCDF - - NA NA 1.712 J 2.254 J 0.278 U 0.739 U 1.78.4-HpCDF - - NA NA 1.144 U 0.185 U 0.739 U 1.78.4-HpCDF - NA NA 1.174 J 0.278 J 0.739 U 1.8.4-ECDF - NA NA NA 0.530 U 0.530 U 0.530 U 1.7DF - NA NA 0.341 U 0.530 U	Zinc	24,000 ^b		59.4	151	f 8.96	269 J	80.7 J		134 J
1,6,7,8-HpCDD - NA NA 51.369 106.124 J 1.333 J 44.210 J 1,6,7,8-HpCDF - NA NA NA 11.381 23.511 0.553 0.857 U 1,7,8-HpCDF - NA NA NA 1.656 U 0.225 U 1.207 U 1,7,8-HxCDD - NA NA NA 4.127 J 1.521 J 0.571 U 1,7,8-HxCDD - NA NA NA 4.127 J 1.521 J 0.571 U 1,7,8-HxCDF - NA NA NA 1.144 U 0.185 U 0.738 U 1,5,8-HxCDF - NA NA 1.144 U 0.185 U 0.428 U 1,8-HxCDF - NA NA 1.144 J 0.930 U 0.185 U 1,8-HxCDF - NA NA 1.144 J 0.930 U 0.340 U 1,8-HxCDF - NA NA 1.744 J 0.930 U 0.217 U 0.660 U 1,CDB -	Dioxins/Furans (ng/kg)									
1,6,7,8-HpCDF - NA NA 11.381 23.511 0.553 0.857 U 1,7,8-HpCDF - - NA NA 2.036 U 1.656 U 0.225 U 1.207 U 1,7,8-HxCDD - - NA NA 1.205 U 0.413 U 1.097 U 1,7,8-HxCDD - - NA NA 1.173 J 1.521 J 0.571 U 5,7,8-HxCDF - - NA NA 1.173 J 1.521 J 0.571 U 5,7,8-HxCDF - - NA NA 1.144 U 0.185 U 0.738 U 5,8-HxCDF - - NA NA 1.144 U 0.185 U 0.728 U 5,8-HxCDF - - NA NA 1.144 U 0.185 U 0.758 U 5,8-HxCDF - - NA NA 1.744 J 0.930 U 0.340 U 0.660 U 5,8-HxCDF - - NA NA 0.543 U 0.530 U 0.550 U <td>1,2,3,4,6,7,8-HpCDD</td> <td>•</td> <td>•</td> <td>NA</td> <td>NA</td> <td>51.369</td> <td>106.124 J</td> <td>1.333 J</td> <td>44.210 J</td> <td>55.006</td>	1,2,3,4,6,7,8-HpCDD	•	•	NA	NA	51.369	106.124 J	1.333 J	44.210 J	55.006
1,7,8,9-HpCDF - NA NA 2,036 U 1,656 U 0.225 U 1,207 U 1,7,8-HxCDD - - NA NA 0,602 U 1,205 U 0,413 U 1,097 U 1,7,8-HxCDD - - NA NA 1,712 J 2,254 J 0,513 U 0,571 U 1,7,8-HxCDD - - NA NA 1,173 J 1,144 U 0,185 U 0,739 U 2,3,8-HxCDD - - NA NA 1,144 U 0,185 U 0,428 U 8,9-HxCDD - - NA NA 1,144 U 0,185 U 0,428 U 8,9-HxCDD - - NA NA 1,144 U 0,185 U 0,340 U 1,28-HxCDF - NA NA NA 0,998 U 0,694 U 0,340 U 0,660 U 1,28-HxCDF - NA NA 0,341 U 0,237 U 0,660 U <td< td=""><td>1,2,3,4,6,7,8-HpCDF</td><td>,</td><td>ı</td><td>NA</td><td>NA</td><td>11.381</td><td>23.511</td><td>0.553</td><td>0.857 11</td><td>7.549</td></td<>	1,2,3,4,6,7,8-HpCDF	,	ı	NA	NA	11.381	23.511	0.553	0.857 11	7.549
1,7,8-HxCDD - NA NA 0.602 U 1.205 U 0.413 U 1.097 U 1,7,8-HxCDF - - NA NA 25.284 J 4.127 J 1.521 J 0.571 U 1,7,8-HxCDF - - NA NA 1.712 J 2.254 J 0.278 U 0.739 U 8,9-HxCDF - - NA NA 1.744 J 0.930 U 0.185 U 0.428 U 8,9-HxCDF - - NA NA NA 0.340 U 0.185 U 0.660 U 8,9-HxCDB - - NA NA NA 0.694 U 0.185 U 0.660 U 8,9-HxCDB - - NA NA NA 0.694 U 0.340 U 0.660 U 1,7-8-HxCDB - - NA NA NA 0.530 U 0.277 U 0.663 U 1,7-1CDB - - NA NA 3.6197 0.180 0.180 0.180 1,1CDB - -<	1,2,3,4,7,8,9-HpCDF	ŧ	•	NA	NA	2.036 U	1.656 U	0.225 U	1.207 U	0.904 U
1,7,8-HxCDF - NA NA A.127 J 1.521 J 0.571 U 0.571 U 1,7,8-HxCDD - NA NA 1.112 J 2.254 J 0.278 U 0.739 U 1,3,8-HxCDD - NA NA 1.144 U 0.185 U 0.739 U 1,3,9-HxCDD - NA NA 1.144 U 0.185 U 0.428 U 1,3,9-HxCDD - NA NA 1.144 U 0.185 U 0.660 U 1,3,9-HxCDD - NA NA NA 0.930 U 0.310 U 0.847 U 1,3,8-FeCDD - NA NA NA 0.530 U 0.257 U 0.663 U 2,8-FeCDF - NA NA 0.331 U 0.530 U 0.369 U - NA NA 3.6197 0.341 U 0.148 U 0.268 U - NA NA 19.036 J 1,255.142 J 8.960 373.33 J - NA NA NA 36.664 J 1,255.142 J <td>1,2,3,4,7,8-HxCDD</td> <td>,</td> <td>·</td> <td>NA</td> <td>NA</td> <td>0.602 U</td> <td>1.205 U</td> <td>0.413 U</td> <td>1.097 U</td> <td>1.120 U</td>	1,2,3,4,7,8-HxCDD	,	·	NA	NA	0.602 U	1.205 U	0.413 U	1.097 U	1.120 U
5,7,8-HXCDD - NA NA 1.712 J 2.254 J 0.278 U 0.739 U 5,7,8-HXCDF - - NA NA 1.173 1.144 U 0.185 U 0.428 U 5,8-HXCDF - - NA NA 0.930 U 0.319 U 0.847 U 5,8-PcCDD - NA NA 0.930 U 0.319 U 0.660 U 5,8-PcCDD - NA NA 0.694 U 0.340 U 0.660 U 5,8-PcCDD - NA NA 0.694 U 0.340 U 0.660 U 5,8-PcCDF - NA NA 0.531 U 0.257 U 0.663 U - NA NA 0.531 U 0.553 U 0.369 U 0.369 U - NA NA NA 3.6197 0.148 U 0.148 U - NA NA 19.036 J 1,255.142 J 8.960 373.38 J - NA NA 19.036 J 0.423 U 0.423 U	1,2,3,4,7,8-HxCDF			NA	NA	25.284 J	4.127 J	1.521 J	0.571 U	1.706 J
5,58-HXCDF - - NA NA 1.173 1.144 U 0.185 U 0.428 U 0.428 U 5,89-HXCDD - - NA NA 1.744 J 0.930 U 0.319 U 0.847 U 5,8-ECDD - - NA NA 0.998 U 0.694 U 0.340 U 0.660 U 5,78-HXCDF - - NA NA NA 0.530 U 0.217 U 0.560 U 5,78-HXCDF - - NA NA NA 0.530 U 0.257 U 0.663 U - NA NA NA 0.553 U 0.257 U 0.663 U - NA NA 0.341 U 0.148 U 0.369 U - NA NA 386.564 J 1,255.142 J 8.960 373.338 J 64 - NA NA NA 19.036 J 35.485 J 0.180 0.180 0.180	1,2,3,6,7,8-HXCDD	ı	•	NA NA	NA		2.254 J	0.278 U	0.739 U	0.754 U
5,8,9-HXCDD - - NA NA 1.744 J 0.930 U 0.319 U 0.847 U 0.847 U 5,8-PeCDD - - NA NA 0.998 U 0.694 U 0.340 U 0.660 U 0.660 U 7,8-PeCDF - - NA NA NA 0.530 U 0.217 U 0.663 U 0.663 U - NA NA NA 0.531 U 0.257 U 0.663 U 0.663 U - NA NA NA 0.331 U 0.553 U 0.369 U 0.369 U - NA NA NA 0.341 U 0.148 U 0.288 U - NA NA 19.036 J 1,255.142 J 8.960 373.338 J 64 - NA NA 19.036 J 35.485 J 0.423 U 8.921 J 8.921 J - NA NA A.332 3.225 0.180 0.824 J 9.821 J	1,2,3,6,7,8-HXCDF	1		NA	NA	1.173	1.144 U	0.185 U	0.428 U	0.766 U
3.F-ECDD - NA NA 0.998 U 0.694 U 0.340 U 0.660 U 0.600 U 7,8-HxCDF - - NA NA 3.079 1.337 U 0.217 U 0.500 U 0.500 U 8-PeCDF - - NA NA 0.543 U 0.530 U 0.257 U 0.663 U 0.663 U TCDD - NA NA NA 0.531 U 0.148 U 0.369 U 0.288 U TCDF - - NA NA 3.6197 0.148 U 0.148 U 0.288 U TCDF - NA NA NA 19.036 J 3.5485 J 0.423 U 8.921 J Axicity equivalency 6.67b 875° NA NA A.332 0.180 0.180 0.824	1,2,3,7,8,9-HXCDD	-	•	NA NA	NA	1.744 J	0.930 U	0.319 U	0.847 U	0.864 U
3.78-HxCDF - - NA NA 3.079 1.337 U 0.217 U 0.500 U 0.500 U 3.8-PcCDF - - NA NA 0.543 U 0.530 U 0.257 U 0.663 U - NA NA NA 0.553 U 0.308 U 0.369 U 0.369 U - NA NA NA 3.6197 0.341 U 0.148 U 0.288 U 0.288 U - NA NA NA 19.036 J 1,255.142 J 8.960 373.338 J 64 xicity equivalency 6.67b 875° NA NA A.332 0.180 0.180 0.824	1,2,3,/8-FeCDD	-		NA	NA	0.998 U	0.694 U	0.340 U	U 099.0	0.930 U
As-FeCDF - NA NA 0.543 U 0.530 U 0.257 U 0.663 U 0.663 U -TCDD - - NA NA 0.311 U 0.553 U 0.308 U 0.369 U 0.369 U -TCDF - - NA NA 386.564 J 1,255.142 J 8.960 373.338 J 64 - NA NA NA 19.036 J 35.485 J 0.423 U 8.921 J xicity equivalency 6.67b 875c NA NA A.332 3.225 0.180 0.824	2,3,4,6,7,8-HxCDF	•	1	NA	NA	3.079	1.337 U	0.217 U	0.500 U	0.895 U
-1CDD - - NA NA 0.353 U 0.369 U 0.369 U -TCDF - - NA NA 3.6197 0.341 U 0.148 U 0.288 U 6.288 U - - NA NA NA 19.654 J 1,255.142 J 8.960 373.338 J 64 xicity equivalency 6.67b 875° NA NA A.332 3.225 0.180 0.824	2,3,4,7,8-PeCDF	•	-	NA	NA		0.530 U	0.257 U	0.663 U	0.428 U
-ICDF NA NA 3.6197 0.341 U 0.148 U 0.288 U NA NA 386.564 J 1,255.142 J 8.960 373.338 J 64 NA NA NA 19.036 J 35.485 J 0.423 U 8.921 J NA NA NA 4.332 3.225 0.180 0.824	2,3,7,8-1CDD	•	. •	NA	NA		0.553 U	0.308 U	0.369 U	0.413 U
- NA NA 386.564 J 1,255.142 J 8.960 373.338 J 64 - NA NA 19.036 J 35.485 J 0.423 U 8.921 J 64 xicity equivalency 6.67 ^b 875 ^c NA NA 4.332 3.225 0.180 0.824	2,3,7,8-TCDF	1	,	NA	NA	3.6197		0.148 U	0.288 U	0.328 UJ
- NA NA 19,036 J 35,485 J 0,423 U 8,921 J xxicity equivalency 6.67° 875° NA NA 4.332 3.225 0.180 0.824	OCDD	-	'	NA	NA	386.564 J		8.960	373.338 J	649.029
3.225 6.67° 875° NA NA 4.332 3.225 0.180 0.824	OCDF	•		NA	NA	19.036 J	35.485 J	0.423 U	8.921 J	28.63
	I otal toxicity equivalency	6.67 ^b	875°	NA	NA	4.332	3.225	0.180	0.824	1.474

			Table	Table 3-2 (CONTINUED)	NUED)				
LA	LANDFILL SU		ACE SOIL S WENATO	E SOIL SAMPLE ANALYTICA WENATCHEE, WASHINGTON	ALYTICAI HINGTON	JBSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON	SUMMARY		
	Residential	Industrial							
LOCATION ID	Cleanup	Cleanup	LF12SB22	LF12SB29	LF13SB04	F13	F13	드	LF09SB04
	Standards	Standards	18 - 22 ft bgs	25 - 29 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft bgs	24 - 25 ft bgs	0 - 3 tt bgs
VOCs (µg/kg)								<u> </u>	
2-Butanone	6,900,000	27,000,000 ^d	10 U	12 U	11 U	15 U	11 U	12 UJ	40 J
Acetone	8,000,000 ^b	350,000,000	13 U	14 U	11 U	15 U	29 U		170
Benzene		500	10 U	12 U	11 U	15 U	11 U	12 U	11 U
Chlorobenzene	1,600,000 ^b	6	10 U	12 U	11 U	15 U	11 U	12 U	11 U
Ethylbenzene	20,000		10 U	12 U	11 U	U 21	11 U	12 U	11 U
Xylene (total)	20,000	20,000	1 J	12 U	11 U	15 U	11 U	12 U	11 U
SVOCemoteor									
2-Methylnanhthalene	- -	-	350 U	390 U	350 U	O 005	370 U	380 U	350 U
Acenaphthene	4.800.000 ^b	210,000,000	350 U	390 U	350 U	D 005	370 U	380 U	350 U
Anthracene	24 000 000 ^b	ΙΞ	350 U	390 U	350 U	200 U	370 U	380 U	350 U
Вепсо(а)ругепе	137 ^b	18,000°	350 U	390 U	350 U	200 U	370 U	380 U	350 U
Benzo(b)fluoranthene	137 ^b	18,000°	350 U	390 U	350 U	200 U	370 U	380 U	350 U
Benzo(k)fluoranthene	137 ^b	18,000°	350 U	390 U	350 U	500 U	370 U	380 U	350 U
Bis(2-ethylhexyl)phthalate	71.400°	9,370,000°	50 J	44 J	41 J	f 68	49 J	43 J	64 J
Butylbenzylphthalate	16,000,000 ^b	1	350 U	390 U	350 U	200 U	370 U	380 U	350 U
Carbazole	50,000 ^b	I	350 U	390 U	350 U	200 U	370 U	380 U	350 U
Chrysene	137 ^b	18,000°	350 U	390 U	350 U	200 U	370 U	380 U	350 U
Di-n-butylphthalate	8,000,000°	3,	350 U	390 U	350 U	500 U	370 U	380 U	350 U
Dimethylphthalate	80,000,000	3	350 U	390 U	350 U	200 U	370 U	80 J	350 U
Fluoranthene	3,200,000 ^b	140,000,000	350 U	390 U	350 U	N 005	370 U	380 U	350 U
Fluorene	3,200,000 ^b		350 U	390 U	350 U	200 U	370 U	380 U	350 U
Naphthalene	3,200,000 ^b	_	350 U	390 U	350 U	200 U	370 U	380 U	350 U
Phenanthrene			350 U	390 U	350 U	200 U	370 U	380 U	350 U
Pyrene	2,400,000 ^b	105,000,000	350 U	390 U	350 U	200 U	370 U	380 U	350 U
Key is at the end of the table		11							

			Table	Table 3-2 (CONTINUED)	NUED)				
	LANDEILLSI	STIRSTIBE	ACE COIL 6	SANATE AN		OT HEAT			
			WENAT	WENATCHEE, WASHINGTON	HINGTON	WENATCHEE, WASHINGTON	SUMMAK	_	
CLP INORGANIC NUMBER	Residential	Industrial							
LOCATION ID	Cleanup	Cleanup	LF12SB22	LF12SB29	LF13SB04	LF13SB12	LF13SB22	LF13SB32	LF09SB04
DEPTH	Standards	Standards	18 - 22 ft bgs	25 - 29 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft hgs	24 - 25 ft bgs	0 - 3 ft bgs
Pesticides/PCBs (µg/kg)								ò	0
4,4'-DDD	4,170 ^b	547,000°	11	3.9 U	14	5.0 U	3.2 J	NA	2.7.1
4,4'-DDE	2,940 ^b	386,000°	18	3.9 U	28	2.2 J	4.8	AN	6.9
4,4'-DDT	1,000	5,000ª	7.4	2.1 J	3.5 U	5.0 U	0.89 J	NA	2.6 J
Aldrin	58.8 ^b	7,720°	1.8 U	2.0 U	1.8 U	2.6 U	1.9 U	AN	1.8 U
Alpha-BHC	159 ^b	20,800°	1.8 U	2.0 U	1.8 U	2.6 U	1.9 U	NA	1.8 U
Alpha-chlordane	₄ 69L	101,000°	U.8.U	2.0 U	1.8 U	2.6 U	1.9 U	NA	1.8 U
Aroclor1242	1,000	10,000ª	35 U	39 U	35 U	50 U	37 U	NA	35 U
Aroclor1254	1,000ª	10,000ª	35 U	39 U	35 U	50 U	37 U	NA	35 U
Beta-BHC	556 ^b	72,900°	1.8 U	2.0 U	1.8 U	2.6 U	1.9 U	NA	2.3 J
Delta-BHC	1	1	1.8.U	2.0 U	1.8 U	2.6 U	1.9 U	ΑN	11.8.11
Dieldrin	62.5 ^b	8,200°	3.5 U	3.9 U	3.5 U	5.0 U	3.7 U	ΝΑ	
Endosulfan I	480,000 ^b	21,000,000°	1.8 U	2.0 U	1.8 U	2.6 U	U 6.1	NA	1.8 U
Endosulfan sulfate	1	•	3.5 U	3.9 U	3.5 U	5.0 U	3.7 U	NA	3.5 U
Endrin	24,000 ^b	1,050,000	5.5	0.80 J	3.5 U	5.0 U	3.7 U	AN	3.5 U
Endrin aldehyde	ı	•	3.5 U	3.9.U		5.0 U	3.7 U	AN	3.5 U
Endrin ketone	-	-	0.65 J	3.9 U	3.5 U	5.0 U	3.7 U	AN	3.5 U
Gamma chlordane	-	-	1.8 U	2.0 U	1.8 U	2.6 U	1.9 U	NA	1.8 U
Inorganies (112/kg)									
Antimony	30 _q	7504	R	R	1.8 J	R	1.3 J	R	R
Arsenic	20ª	200.0ª	3.2 J	0.68 U	<u>41.4</u> J	6.1 J	7.0 J	U 69.0	2.7 J
Barium	5,600 ^b	245,000°	70.4	52.8	194	130	93.0	90.8	106
Beryllium	0.233 ^b	30.5°	0.20 J	0.22 J	0.68 J	0.53 J	0.43 J	0.30 J	0.31 J
Cadmium	2ª	10.0ª	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.12 U	0.11 U
Chromium	100a	500.0ª	8.8 J	16.8 J	45.8	31.6	24.8	30.2	17.0
Cobalt	3,300 ^d	29,000 ^d	4.5 J	f 9.9	7.5 J	8.3 J	7.5 J	6.5 J	6.6 J
Key is at the end of the table.									

and the second

CLP PropiceANTC NUMBER Residential Industrial Ind				Table	Table 3-2 (CONTINUED)	NUED)				
Chemp Cleanup LF128B2 LF128B2 LF128B2 LF138B4 LF138B2 LF138B2 LF138B2 LF138B2 LF138B2 LF138B3 LF138B2 LF138B3 LF13B3	Ľ,	ANDFILL !		ACE SOIL S WENATO	AMPLE AN	ALYTICAI HINGTON	RESULTS	SUMMARY		
Chemical Cleanup Clean	CT D INODCANIC NIIMBER	Residential	Industrial							
Siandards Standards 18-27 ft bgs 2-27 ft bgs 18-21 ft bg	LOCATION ID	Cleanup	Cleanup	LF12SB22	LF12SB29	LF13SB04	LF13SB12	LF13SB22	LF13SB32	LF09SB04
15.6 10.0000° 10.00 22.7 21.4 15.8 16.5 9.4 15.5 15.50° 15.0000° 18.3 4.5 J 39.6 8.7 18.7 35.5 15.0000° 10.000 22.0 217 401 251 283 242 242 25.6 1.0000° 1.000 0.06 U 0.07 U 0.07 U 1.5 J 0.07 U 0	DEPTH	Standards	Standards	18 - 22 ft hgs	25 - 29 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	18 - 22 ft bgs	24 - 25 It bgs	0-311083
Participa 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,000° 10,00° 10,000° 10,000° 10,00°	Ingresiniry (119/kg)									
1,000, 18,3 4,5 39,6 8,7 18,7 345	Conner	9096 C	130.000°	10.0	22.7	21.4	15.8	16.5	9.4	15.1
1,200 4,0000 220 217 401 251 283 242	T ead	250	1 000 0ª	18.3 J	4.5 J	39.6	8.7	18.7	3.5	23.4
1,500 1,500 11,400 11,400 11,400 11,400 11,400 11,400 11,400 11,400 11,400 11,400 11,400 11,500 11,	Mondage	11 200 ^b	490 000	220	217	401	251	283	242	284
ty 11,500 70,000 11.4 11.3 26.2 J 18.1 J 26.6 J 17.1 J mm 400b 17,500° 0.99 J 1.3 20 1.9 1.5 </td <td>Mangailese</td> <td>1 08</td> <td>100,000</td> <td>0.06 U</td> <td>0.06 U</td> <td>0.05 U</td> <td>0.06 U</td> <td>0.06 U</td> <td>U 90.0</td> <td>0.05 U</td>	Mangailese	1 08	100,000	0.06 U	0.06 U	0.05 U	0.06 U	0.06 U	U 90.0	0.05 U
um 400° 7,500° 0,90 J 1.3 2.0 1.9 1.5 1.6 1.0 1	(vietcuty	1.00	70,000	11.4	11.3	26.2 J	18.1 J	26.6 J	17.1 J	23.5 J
unn 400 17,500 0.43 J 0.72 J 0.99 J 0.81 J 0.71 J 0.71 J unn 400 17,500 0.43 J 0.72 J 1.5 J 1.0 J 1.0 J 1.0 J imm 56 b 24,500° 23.8 34.1 60.0 46.3 33.5 40 imm 56 b 24,500° 23.8 34.1 60.0 46.3 33.5 40 imm 56 b 24,500° 23.8 34.1 60.0 46.3 33.5 40 imm 56 b 24,500° 43.3 44 J 72.7 53.6 77.2 39.7 imm 56 b 1,050,000° 43.3 NA 0.510 U 34.8 NA 0.510 U NA NA inference	INICKEI	000,1	17 500°	I. 09 0	1.3	2.0	1.9	1.5	1.5	1.1
min 400 17,500 0.05 U 0.74 U 1.5 J 1.0 J 1.0 J 1.0 J 1.0 J imm 5.6b 245c 245c 0.74 U 1.5 J 1.5 J 1.0 J 1.0 J 1.0 J imm 5.6b 24,500c 23.8 34.1 60.0 46.3 33.5 40 46.78-HpCDD - - 2489 J NA 0.511 U 3.48 NA NA 45.78-HpCDD - - 0.531 U NA 0.510 U 0.130 U NA NA 4,78-HpCDF - - 0.457 U NA 0.510 U 0.130 U NA NA 4,78-HpCDF - - 0.457 U NA 0.617 U 0.130 U NA NA 5,78-HpCDF - - 0.348 U NA 0.102 U NA NA 5,78-HpCDF - - 0.348 U NA 0.345 U 0.145 U NA NA 5,78-HpCDF	Selenium	400	17,500	1 EF U	0.72 J	J 66.0		0.71 J	0.71 J	09.0
Signature Sign	Silver	400 <u>°</u>	17,500	0.69 11	0.74 U	1.5 J		1.0 J	1.0 J	0.70 U
STATE STATE OF S	Luainum	5.0 5.0b	24.5000	23.8	34.1	0.09	46.3	33.5	40	24.7
StEurans (ngLtg) A.3.3 J T.9.5 J	Vanadium	200	24,300			7.77	985	77.2	39.7	50.8
SFB in in strict (10 Mg) - 2.489 J NA 0.511 U 3.448 NA NA 6,7/8-HpCDD - - 0.591 NA 0.505 U 0.405 J NA NA 6,7/8-HpCDF - - 0.534 U NA 0.617 U 0.130 U NA NA 7/8-HxCDF - - 0.457 U NA 0.617 U 0.249 U NA NA 7/8-HxCDF - - - 0.457 U NA	Zinc	24,000°	1,050,000°		C 44	1.5.1	0.00	211		
6.7.8 HpCDD - - 2.489 J NA 0.511 U 3.448 NA NA 6.7.8 HpCDD - - 0.551 U 0.465 J NA	Dioxins/Furans (ng/kg)									
6,7,8-HpCDF - - 0,591 NA 0,505 U 0,405 J NA NA 7,8-HpCDF - - - 0,354 U NA 0,112 U 0,130 U NA NA 7,8-HxCDD - - 0,457 U NA 0,617 U 0,249 U NA NA 7,8-HxCDD - - 0,348 U NA 1,012 J 0,168 U NA NA 7,8-HxCDD - - 0,308 U NA 0,415 U 0,295 NA NA 7,8-HxCDD - - 0,261 U NA 0,415 U NA NA 8,9-HxCDD - - 0,333 U NA 0,476 U 0,195 U NA NA 8,9-HxCDD - - 0,303 U NA 0,458 U NA NA 7,8-HxCDF - - 0,305 U NA 0,458 U NA NA 7,8-HxCDF - - 0,310 U NA	1 2 3 4 6 7 8-HpCDD	•	-	2.489 J	NA .	0.511 U	3.448	NA	NA	NA
7.8.9-HpCDF - - 0.354 U NA 0.712 U 0.130 U NA NA 7.8.14-CDDF - - 0.457 U NA 0.617 U 0.249 U NA NA 7.8-HxCDF - - 0.348 U NA 1.012 J 0.168 U NA NA 7.8-HxCDF - - 0.308 U NA 0.415 U 0.295 NA NA 7.8-HxCDF - - 0.261 U NA 0.415 U 0.126 U NA NA 7.8-HxCDF - - 0.251 U NA 0.126 U NA NA 8.9-HxCDF - - 0.303 U NA 0.278 U 0.147 U NA NA 7.8-HxCDF - - 0.305 U NA 0.235 U 0.165 U NA NA 7.8-HxCDF - - 0.210 U NA 0.235 U 0.165 U NA NA 8-PeCDF - <	1 2 3 4 6 7 8-HnCDF			0.591	NA	0.505 U	[NA	NA	NA
7.8-HXCDD - - 0.457 U NA 0.617 U 0.249 U NA NA 7.8-HXCDD - - - 0.348 U NA 1.012 J 0.168 U NA NA 7.8-HXCDD - - 0.308 U NA 0.415 U 0.168 U NA NA 7.8-HXCDD - - 0.261 U NA 0.415 U NA NA 8.9-HXCDD - - 0.261 U NA 0.476 U 0.192 U NA NA 8.9-HXCDD - - 0.303 U NA 0.578 U NA NA 7.8-HXCDF - - 0.305 U NA 0.235 U NA NA 7.8-HXCDF - - 0.210 U NA 0.235 U NA NA 7.8-HXCDF - - 0.210 U NA 0.235 U NA NA 8-PeCDF - - 0.370 U NA 0.164 U NA NA <td>1.2.3.4.7.8.9-HpCDF</td> <td></td> <td>1</td> <td>0.354 U</td> <td>NA</td> <td>0.712 U</td> <td></td> <td>NA</td> <td>NA</td> <td>NA</td>	1.2.3.4.7.8.9-HpCDF		1	0.354 U	NA	0.712 U		NA	NA	NA
7,8-HxCDF - 0.348 U NA 1.012 J 0.168 U NA NA 7,8-HxCDF - - 0.308 U NA 0.415 U 0.295 NA NA 7,8-HxCDF - - 0.261 U NA 0.340 U 0.126 U NA NA 8,9-HxCDF - - 0.303 U NA 0.476 U 0.192 U NA NA 8-PeCDD - - 0.303 U NA 0.578 U 0.147 U NA NA 7,8-HxCDF - - 0.305 U NA 0.235 U NA NA 8-PeCDF - - 0.210 U NA 0.235 U NA NA NA TCDD - - 0.421 U NA 0.164 U NA NA TCDF - - 0.421 U NA 0.164 U NA NA TCDF - - 0.421 U NA 0.164 U NA NA	1 2 3 4 7 8-HxCDD		,	0.457 U	NA	0.617 U		NA	NA	NA
7,8-HxCDD - 0.308 U NA 0.415 U 0.295 NA NA NA 7,8-HxCDF - - 0.261 U NA 0.340 U 0.126 U NA NA 8,9-HxCDF - - 0.303 U NA 0.476 U 0.192 U NA NA 8-PeCDD - - 0.303 U NA 0.578 U NA NA NA 7,8-HxCDF - - 0.305 U NA 0.145 U NA NA 8-PeCDF - - 0.210 U NA 0.235 U 0.165 U NA NA TCDD - 0.421 U NA 0.305 U 0.146 U NA NA TCDF - 0.421 U NA 0.365 U 0.146 U NA NA TCDF - 0.421 U NA 0.649 U 0.146 U NA NA NA - - 0.425 U NA 0.146 U NA NA	1 2 3 4 7 8-HxCDF	1	1	0.348 U	NA	1.012 J	١	NA	NA	NA
7,8-HxCDF - - 0.261 U NA 0.340 U 0.126 U NA NA 8,9-HxCDD - - - 0.353 U NA 0.476 U 0.192 U NA NA 8-PeCDD - - 0.303 U NA 0.578 U 0.147 U NA NA 7,8-HxCDF - - 0.305 U NA 0.398 U 0.147 U NA NA 8-PeCDF - - 0.210 U NA 0.235 U 0.165 U NA NA TCDD - 0.370 U NA 0.305 U 0.164 U NA NA TCDF - 0.421 U NA 0.305 U 0.146 U NA NA TCDF - 1.357 J NA 0.634 U 1.157 NA NA Accity equivalency 6.67b 875° 0.067 NA 0.114 0.107 NA NA NA	1.2.3.6.7.8-HxCDD	1	1	0.308 U	NA	0.415 U	0.295	NA	NA	NA
8,9-ExcDD - - 0.353 U NA 0.476 U 0.192 U NA NA 8-PecDD - - 0.303 U NA 0.578 U 0.211 U NA NA 7,8-ExcDD - - 0.305 U NA 0.398 U 0.147 U NA NA 8-PecDF - - 0.210 U NA 0.235 U 0.165 U NA NA TCDD - 0.370 U NA 0.305 U 0.146 U NA NA TCDF - 0.421 U NA 0.305 U 0.146 U NA NA TCDF - 1.357 J NA 0.634 U 1.157 NA NA Axicity equivalency 6.67b 875° 0.067 NA 0.114 0.107 NA NA NA		,	ı	0.261 U	NA	0.340 U		NA	NA	NA
8-PecDD - - 0.303 U NA 0.578 U 0.201 U NA NA 7,8-HxCDF - - 0.305 U NA 0.398 U 0.147 U NA NA 8-PecDF - - 0.210 U NA 0.235 U 0.165 U NA NA TCDD - - 0.370 U NA 0.408 U 0.164 U NA NA TCDF - - 0.421 UJ NA 0.305 U 0.146 U NA NA NA TCDF - - 0.421 UJ NA 12.649 37.974 NA NA TCDF - - 1.357 J NA 0.634 U 1.157 NA NA Axicity equivalency 6.67b 875° 0.067 NA 0.114 0.107 NA NA NA	1,2,3,7,8,9-HxCDD	1		0.353 U	NA	0.476 U	ı	NA	NA	NA
7,8-HxCDF - - 0.305 U NA 0.398 U 0.147 U NA NA<	1,2,3,7,8-PeCDD	1	1	0.303 U	NA	0.578 U		NA	NA	NA
PeCDF - - 0.210 U NA 0.235 U 0.165 U NA	2.3.4.6.7.8-HxCDF		1	0.305 U	. AN	0.398 U		NA	NA	NA
TCDD - - 0.421 UJ NA 0.408 U 0.164 U NA	2,3,4,7,8-PeCDF	1	1	0.210 U	NA	0.235 U		NA	NA	NA
TCDF - - 0.421 UJ NA 0.305 U 0.146 U NA NA - - - 34.759 NA 12.649 37.974 NA NA xicity equivalency - 1.357 J NA 0.634 U 1.157 NA NA NA	2,3,7,8-TCDD	1	ı	0.370 U	NA	0.408 U		. NA	NA	NA
- - - 34.759 NA 12.649 37.974 NA NA - 1.357 J NA 0.634 U 1.157 NA NA xicity equivalency 6.67 ^b 875 ^c 0.067 NA 0.114 0.107 NA NA	2,3,7,8-TCDF	1	1	0.421 UJ				NA	NA	NA
Axicity equivalency 6.67 ^b 875 ^c 0.067 NA 0.114 0.107 NA NA	OCDD			34.759		12.649	37.974	NA	NA	NA
39 6.67 ^b 875° 0.067 NA 0.114 0.107 NA NA NA	OCDF	1	•	1.357 J	NA		1.157	NA	NA	NA
	Total toxicity equivalency	6.67 ^b	°578	0.067	NA	0.114	0.107	NA	NA	NA

CAL RESULTS SUMMARY ON			Table 3-2 (C	Table 3-2 (CONTINUED)			
Residential Industrial Residential Residen	LANDFILL SUBSU	JRFACE SO	OIL SAMP	V.E ANALV	TICAL DEG	TE STILL	24
Cleanup Clea		WEI	NATCHEE.	, WASHING	TON	OLIS SUM	VIAK I
ATION ID Cleanup Cleanup Cleanup Cleanup Standards S		Residentia	Industrial				
Standards Stan	LOCATION ID	Cleanup	Cleanup	LF09SB12	LF09SB22	L.F10SB04	I PIOCE12
Section Sect	рертн	Standards	-	8 - 12 ft bgs	18 - 21 ft bgs	0 - 4 ft høs	8 - 12 ft ha
none 6,900,000 ⁴ 27,000,000 ⁴ 11 UJ 12 UJ 11 UJ ne 8,000,000 ⁴ 350,000,000 62 U 37 U 78 U ne 500 ⁴ 500 ⁴ 500 ⁴ 11 U 12 U 11 U obenzene 20,000 ⁵ 20,000 ⁶ 20,000 ⁶ 11 U 12 U 11 U e(total) 20,000 ⁶ 20,000 ⁶ 20,000 ⁶ 11 U 12 U 11 U e(total) 20,000 ⁶ 20,000 ⁶ 20,000 ⁶ 11 U 12 U 11 U phthaphthalene - 360 U 390 U 350 UJ 4 cene 137 ^b 18,000 ^c 360 U 390 U 350 UJ 4 Aphthaphthalene 137 ^b 18,000 ^c 360 U 390 U 350 UJ 4 Aphthalene 137 ^b 18,000 ^c 360 U 390 U 350 UJ 4 Aphthalene 137 ^b 18,000 ^c 360 U 390 U 350 UJ 4 Aphthalene 1	VOCs (ug/kg)					9	9
1,500,000 250,000,000 11 U	2-Butanone	6,900,000 ^d		. 11 UJ	12 UJ	11 UJ	13.1
11 12 11 11 12 11 11 11	Acetone	8,000,000 ^b	350,000,000	62 U	37 U	78 U	13.1
1,600,000° 20,000° 11 U 12 U 11 U	Benzene	500ª	500ª	11 U	12 U	11 U	13.0
C Stitute C D0,000° D0,000	Chlorobenzene	1,600,000 ^b	70,000,000°	11 U	12 U	11 U	13 U
Cs (total) 20,000° 20,000° 11 U 12 U 11 U Cs (total) Cs (total) 20,000° 20,000° 11 U 12 U 11 U Phythaphthalene - - - 360 U 390 U 750 J 1 phthene - - - 360 U 390 U 750 J 4 cene 24,000,000° 210,000,000 360 U 390 U 350 UJ 4 (a)Pyrene 137° 18,000° 360 U 390 U 350 UJ 4 (a)Pyrene 137° 18,000° 360 U 390 U 350 UJ 4 (a)Pyrene 137° 18,000° 360 U 390 U 350 UJ 4 (b)Burranthene 137° 18,000° 360 U 390 U 350 UJ 4 (c)Burranthene 137° 18,000° 360 U 390 U 350 UJ 4 (c)Burranthene 137° 18,000° 360 U 390 U 350 UJ 4	Ethylbenzene	20,000	20,000	U 11	12 U	11 U	13 U
hylnaphthalene	Xylene (total)	20,000ª	20,000	11 U	12 U	11 U	13 U
hylnaphthalene	SVOGs (µg/kg)						
phthene 4,800,000° 100,000,000 360 U 390 U 350 UJ (a) pyrene 24,000,000° 100,000,000 360 U 390 U 350 UJ (a) pyrene 137° 18,000° 360 U 390 U 350 UJ (b) fluoranthene 137° 18,000° 360 U 390 U 350 UJ (c) fluoranthene 137° 18,000° 360 U 390 U 350 UJ (c) fluoranthene 137° 18,000° 360 U 390 U 350 UJ (c) fluoranthene 137° 18,000° 360 U 390 U 350 UJ (c) fluoranthene 137° 18,000° 360 U 390 U 350 UJ (c) fluoranthene 137° 18,000° 360 U 390 U 350 UJ (c) fluoranthene 137° 18,000° 360 U 390 U 350 UJ (c) fluoranthene 137° 18,000° 360 U 390 U 350 UJ (c) fluoranthene 13,200,000° 140,000,000 360 U 390 U 350 UJ (c) fluoranthene 13,200,000° 140,000,000 360 U 390 U 390 U 350 UJ (c) fluoranthene 13,200,000° 140,000,000 360 U 390 U 390 U 350 UJ (c) fluorene 13,200,000° 140,000,000 360 U 390 U 390 U 350 UJ (c) fluorene 10,000,000 10,0	2-Methylnaphthalene	-	1	360 U	390 U	T 1 052	160 1
tochene 24,000,000b 100,000,000 360 U 390 U 350 UJ (a)pyzene 137b 18,000c 360 U 390 U 350 UJ (b)fluoranthene 137b 18,000c 360 U 390 U 350 UJ Athylhexyl)phthalate 71,400b 9,370,000c 360 U 2,400 350 UJ enzylphthalate 71,400b 0,370,000c 360 U 390 U 350 UJ ole 50,000b 700,000,000 360 U 390 U 350 UJ ne 137b 18,000c 360 U 390 U 350 UJ utylphthalate 8,000,000b 350,000,000 360 U 390 U 350 UJ wiphthalate 8,000,000b 140,000,000 360 U 390 U 350 UJ thene 3,200,000b 140,000,000 360 U 390 U 350 UJ thene 3,200,000b 140,000,000 360 U 390 U 350 UJ threne - - - - - 1 - - - - - - 1 -	Acenaphthene	4,800,000 ^b	210,000,000	360 U	390 U	350 UJ	420 U
(a) Pyrene 137b 18,000° 360 U 390 U 350 UJ (b) fluoranthene 137b 18,000° 360 U 390 U 350 UJ (c) fluoranthene 137b 18,000° 360 U 390 U 350 UJ ethylhexyl phthalate 71,400b 9,370,000,000 360 U 2,400 350 UJ enzylphthalate 50,000b 700,000,000 360 U 390 U 350 UJ ale 137b 18,000° 360 U 390 U 350 UJ utylphthalate 8,000,000b 350,000,000 360 U 390 U 350 UJ athene 3,200,000b 140,000,000 360 U 390 U 350 UJ thene 3,200,000b 140,000,000 360 U 390 U 350 UJ alene 3,200,000b 140,000,000 360 U 390 U 350 UJ threne - 360 U 390 U 49 J	Anthracene	24,000,000 ^b	100,000,000	360 U	390 U	350 UJ	420 U
(b)filuoranthene 137b 18,000° 360 U 390 U 350 UJ (k)filuoranthene 137b 18,000° 360 U 390 U 350 UJ enzylphthalate 71,400° 9,370,000° 360 U 2,400 350 UJ sole 50,000° 700,000,000° 360 U 390 U 350 UJ ne 137b 18,000° 360 U 390 U 350 UJ utylphthalate 8,000,000° 350,000 360 U 390 U 350 UJ ithene 3,200,000° 140,000,000 360 U 390 U 350 UJ e 3,200,000° 140,000,000 360 U 390 U 350 UJ thene 3,200,000° 140,000,000 360 U 390 U 350 UJ threne 3,200,000° 140,000,000 360 U 390 U 350 UJ threne - 360 U 390 U 49 J	Benzo(a)pyrene	137 ^b	18,000°	360 U	390 U	350 UJ	J0 J
(k)fluoranthene 137b 18,000° 360 U 390 U 350 UJ chylhexyl)phthalate 71,400b 9,370,000° 360 U 2,400 350 UJ cerzylphthalate 16,000,000b 700,000,000 360 U 390 U 350 UJ ne 137b 18,000° 360 U 390 U 350 UJ utylphthalate 8,000,000b 350,000 360 U 350 UJ 350 UJ wilphthalate 80,000,000b 350,000,000 360 U 390 U 350 UJ wilphthalate 3,200,000b 140,000,000 360 U 390 U 350 UJ ee 3,200,000b 140,000,000 360 U 390 U 180 J ithene 3,200,000b 140,000,000 360 U 390 U 350 UJ threne - 360 U 390 U 49 J	Benzo(b)fluoranthene	137 ^b	18,000°	360 U	390 U	350 UJ	420 U
ethylhexyl)phthalate 71,400b 9,370,000° 360 U 2,400 350 UJ ole 50,000b 700,000,000° 360 U 390 U 350 UJ ole 50,000b 6,560,000° 360 U 390 U 350 UJ utylphthalate 8,000,000b 350,000,000 360 U 390 U 350 UJ wthene 3,200,000b 140,000,000 360 U 390 U 350 UJ e 3,200,000b 140,000,000 360 U 390 U 350 UJ e 3,200,000b 140,000,000 360 U 390 U 350 UJ de 3,200,000b 140,000,000 360 U 390 U 350 UJ threne 3,200,000b 140,000,000 360 U 390 U 350 UJ threne - 360 U 390 U 49 J	Benzo(k)fluoranthene	137 ^b	18,000°	360 U	390 U	350 UJ	420 U
cenzylphthalate 16,000,000b 700,000,000 360 U 390 U 350 UJ nole 50,000 6,560,000° 360 U 390 U 350 UJ ne 137b 18,000° 360 U 390 U 350 UJ atylphthalate 8,000,000 350,000,000 360 U 390 U 350 UJ shphthalate 80,000,000 350,000,000 360 U 390 U 350 UJ nthene 3,200,000 140,000,000 360 U 390 U 350 UJ shene 3,200,000 140,000,000 360 U 390 U 350 UJ shene 3,200,000 140,000,000 360 U 390 U 350 UJ shene 3,200,000 140,000,000 360 U 390 U 390 U 350 UJ shene 3,200,000 105,000 360 U 390 U 390 U 49 J	Bis(2-ethylhexyl)phthalate	71,400 ^b	9,370,000°	360 U	2,400	350 UJ	420 U
ne 50,000b 6,560,000c 360 U 390 U 350 UJ utylphthalate 8,000,000b 350,000,000 360 U 390 U 350 UJ vylphthalate 80,000,000b 350,000,000 360 U 390 U 350 UJ ithene 3,200,000b 140,000,000 360 U 390 U 350 UJ e 3,200,000b 140,000,000 360 U 390 U 350 UJ alene 3,200,000b 140,000,000 360 U 390 U 350 UJ threne 3,200,000b 140,000,000 360 U 390 U 350 UJ threne 3,200,000b 140,000,000 360 U 390 U 350 UJ	Butylbenzylphthalate	16,000,000 ^b	700,000,000	360 U	390 U	350 UJ	420 U
ne 137b 18,000ch 360 U 390 U 350 UJ utylphthalate 8,000,000b 350,000,000 360 U 390 U 350 UJ vilphthalate 80,000,000b 140,000,000 360 U 390 U 350 UJ ithene 3,200,000b 140,000,000 360 U 390 U 350 UJ alene 3,200,000b 140,000,000 360 U 390 U 180 J threne - 360 U 390 U 350 UJ threne - 360 U 390 U 350 UJ	Carbazole	50,000 ^b	6,560,000°	360 U	390 U	350 UJ	420 U
utylphthalate 8,000,000b 350,000,000 360 U 390 U 350 UJ nthene 3,200,000b 140,000,000 360 U 390 U 350 UJ nthene 3,200,000b 140,000,000 360 U 390 U 350 UJ le 3,200,000b 140,000,000 360 U 390 U 350 UJ alene 3,200,000b 140,000,000 360 U 390 U 180 J threne - 360 U 390 U 49 J	Chrysene	137 ^b	18,000°	360 U	390 U	350 UJ	540
vylphthalate 80,000,000b 350,000,000 360 U 390 U 350 UJ ithere 3,200,000b 140,000,000 360 U 390 U 350 UJ se 3,200,000b 140,000,000 360 U 390 U 350 UJ alene 3,200,000b 140,000,000 360 U 390 U 180 J threne - 360 U 390 U 350 UJ 2,400,000b 105,000,000 360 U 390 U 49 J	Di-n-butylphthalate	8,000,000°	350,000,000	360 U	390 U	350 UJ	420 U
ithene 3,200,000 ^b 140,000,000 360 U 390 U 350 UJ ie 3,200,000 ^b 140,000,000 360 U 390 U 350 UJ alene 3,200,000 ^b 140,000,000 360 U 390 U 180 J threne - 360 U 390 U 350 UJ 2,400,000 ^b 105,000,000 360 U 390 U 49 J	Dimethylphthalate	80,000,000,08	350,000,000	360 U	390 U	350 UJ	420 U
le 3,200,000 b 140,000,000 360 U 390 U 350 UJ alene 3,200,000 b 140,000,000 360 U 390 U 180 J threne - 360 U 390 U 350 UJ 2,400,000 b 105,000,000 360 U 390 U 49 J	Fluoranthene		140,000,000	360 U	390 U	350 UJ	420 U
alene 3,200,000 ^b 140,000,000 360 U 390 U 180 J threne 360 U 390 U 350 UJ 350 UJ 350 UJ 390 U 390 U 390 U	Fluorene		40,000,000	360 U	390 U	350 UJ	420 U
threne 360 U 390 U 350 UJ 2.400.000 ^b 105.000.000 360 U 390 U 49 J	Naphthalene		40,000,000	360 U	390 U	180 J	120 J
2.400.000 ^b 105.000.000 360 U 390 U 49 J	Phenanthrene	•	•	360 U	390 U	350 UJ	420 U
	Pyrene	2.400.000 ^b li	05.000.000	360 U	390 U	49 J	97 J

	T	able 3-2 (C	Table 3-2 (CONTINUED)	<u>(6</u>		
LANDFILL SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE WASHINGTON	RFACE SC WEN	E SOIL SAMPI WENATCHEE	LE ANALYTICA WASHINGTON	FICAL RESI	ULTS SUM	MARY
CLP INORGANIC NUMBER	Residential	Industrial				
LOCATION ID	Cleanup	Cleanup	LF09SB12	LF09SB22	LF10SB04	LF10SB12
рертн	Standards	Standards	8 - 12 ft bgs	18 - 21 ft bgs	· 0 - 4 ft bgs	8 - 12 ft bgs
Pesticides/PCBs (11g/kg)						
4,4'-DDD	4,170 ^b	547,000°	96	3.9 U	16	44
4,4'-DDE	2,940 ^b	386,000°	24	3.9 U	12	25
4,4'-DDT	1,000	5,000ª	7.2 U	3.9 U	3.5 U	4.3 U
Aldrin	58.8 ^b	7,720°	3.7 U	2.0 U	1.8 U	2.2 U
Alpha-BHC	159 ^b	20,800°	3.7 U	2 U	1.8 U	2.2 U
Alpha-chlordane	769 ^b	101,000°	3.7 U	2.0 UJ	1.8 U	3.9 U
Aroclor1242	1,000	10,000	72 U	39 U	35 U	43 U
Aroclor1254	1,000	10,000	72 U	39 U	35 U	43 U
Beta-BHC	556 ^b	72,900°	3.7 U	2.0 U	1.8 U	2.2 U
Delta-BHC	1	1	3.7 U	2.0 U	1.8 U	2.2 U
Dieldrin	62.5 ^b	8,200°	7.2 U	Ω 6.ε	3.5 U	4.3 U
Endosulfan I	480,000 ^b	21,000,000°	3.7 U	2.0 U	1.8 U	2.2 U
Endosulfan sulfate		1	., 7.2 U	3.9 U	3.5 U	4.3 U
Endrin	24,000 ^b	1,050,000	7.2 U	3.9 U	3.5 U	4.3 U
Endrin aldehyde	1	•	7.2 U	3.9 U	3.5 U	4.3 U
Endrin ketone		,	7.2 U	3.9 U	3.5 U	4.3 U
Gamma chlordane	-	-	2.4 J	2.0 U	0.60 J	4.6 J
Inorganies (µg/kg)						
Antimony	30 _q	750 ^d	0.88 J	R	R	4.3 J
Arsenic	20ª	200.0	8.0 J	1.9 J	5.3	9.1
Barium	5,600 ^b	245,000°	141	152	94.5	106
Beryllium	0.233 ^b	30.5°	0.41 J	0.35 J	0.19 J	0.30 J
Cadmium	2ª	10.0ª	0.11 U	0.11 U	0.11 U	0.11 U
Chromium	100ª	500.0ª	28.9	40.5	24.6 J	22.4 J
Cobalt	3,300 ^d	29,000 ^d	8.2 J	6.4 J	7.5 J	7.0 J

Key is at the end of the table.

	T	able 3-2 (C	Table 3-2 (CONTINUED)	(0		
LANDFILL SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON	RFACE SO WEN	E SOIL SAMP) WENATCHEE,	LE ANALYTICA WASHINGTON	TICAL RES	ULTS SUMI	MARY
CLP INORGANIC NUMBER	Residential	Industrial				
LOCATION ID	Cleanup	Cleanup	LF09SB12	LF09SB22	LF10SB04	LF10SB12
DEPTH	Standards	Standards	8 - 12 ft bgs	18 - 21 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs
Inorganics (µg/kg)						
Copper	2,960 ^b	130,000	34.4	15.3	16.5	19.1
Lead	250ª	1,000.0	81.5	5.3	33.8 J	9.76 J
Manganese	11,200 ^b	490,000°	315	306	320 J	388 J
Mercury	1.0ª	1.0ª	0.08 J	0.05 U	0.05 U	0.05 U
Nickel	1,600 ^b	70,000°	25.2 J	34.8 J	19.2	17.6
Selenium	400b	17,500°	1.7	1.7	I.9 UJ	1.6 U
Silver	400b	17,500°	1.1 J	f 68.0	0.72 J	1.3 J
Thallium	5.6 ^b	245°	1.3 J	f 68.0	0.90 J	0.99 J
Vanadium	₄ 095	24,500°	43.7	43.8	38.2	38.7
Zinc	24,000 ^b	1,050,000	163	41.5	48.6 J	68.7 J
Dioxins/Furans (ng/kg)						
1,2,3,4,6,7,8-HpCDD	1	-	NA	0.315 U	4.648	45.687
1,2,3,4,6,7,8-HpCDF	-	•	NA	0.211 U	1.951	10.253
1,2,3,4,7,8,9-HpCDF	-	•	NA	0.297 U	0.897 U	1.729 U
1,2,3,4,7,8-HxCDD	_		NA	0.325 U	0.687 U	2.461 J
1,2,3,4,7,8-HxCDF	١	٠	NA	0.232 U	0.636 U	3.476 J
1,2,3,6,7,8-HxCDD	ı	ı	NA	0.219 U	0.463 U	0.521 U
1,2,3,6,7,8-HxCDF	1	•	NA	0.174 U	. 0.477 U	0.622 U
1,2,3,7,8,9-HxCDD		1	NA	0.251 U	0.530 U	0.597 U
1,2,3,7,8-PeCDD			NA	0.367 U	0.414 U	0.696 U
2,3,4,6,7,8-HxCDF	I.	•	NA	0.203 U	0.558 U	0.727 U
2,3,4,7,8-PeCDF	•	-	NA	0.182 U	0.485 U	0.463 U
2,3,7,8-TCDD	-	-	NA		0.355 U	0.405 U
2,3,7,8-TCDF	-	. 1	NA	0.181 U	0.258 U	0.383 U
OCDD	-	-	NA	4.186	39.274	698.404
OCDF	1	•	NA	0.377.U	5.248	34.709
Total toxicity equivalency	6.67 ^b	875°	NA	0.004	0.111	1.886
Key is at the end of the table.						

WDOE Method A cleanup level.

^b WDOE Method B cleanup level.

c WDOE Method C cleanup level.

^d EPA, Region 9, PRG.

Bold type indicates concentrations above sample quantitation limits or detection limits. Underline indicates concentrations above one or more comparison standards. Note:

Key:

= Below ground surface. bgs CLP

= Contract Laboratory Program.

= United States Environmental Protection Agency. EPA

= Identification.

= The analyte was positively identified. The associated numerical value is an estimate.

= Micrograms per kilogram. µg/kg

Not analyzed.

= Nanograms per kilogram. ng/kg PCBs

= Polychlorinated biphenyls.

= Preliminary remediation goal. Rejected. PRG

= Semivolatile organic compounds. SVOCs

= The associated numerical value is an estimate of the quantitation limit of the analyte in this sample. Not detected.

= Volatile organic compounds.= Washington Department of Ecology. VOCs WDOE

			Table 3-3	3-3			
LANDFI	ILL SUB	SURFACE SC	OIL SAMP	LE SCREENI	LANDFILL SUBSURFACE SOIL SAMPLE SCREENING LEVEL SUMMARY	IMARY	
		WENA	TCHEE, V	WENATCHEE, WASHINGTON	7		n distrib
	Range of	Range of		Frequency of	•	Kesidentiai	Industrial
	Detection	Detected	Frequency		Screening Level	Cleanup	Cleanup
Analyte	Limits	Concentrations*	of Detection	Screening Level	Source	Standards	Stalldarus
MO) GENERALED							
2-Butanone	10-21	1 - 40	16/32	0 / 32	EPA Region 9 PRG	6,900,000	27,000,000
Acetone	10 - 150	43 - 170	7/32	0/32	MTCA Method B	چ ا	350,000,000°
Benzene	10 - 18	2	1/32	0/32	MTCA Method A	500ª	500ª
Chlorohenzene	10 - 18	1 - 4	2/32	0/32	MTCA Method B	1,600,000 ^b	70,000,000°
Ethylbenzene	10 - 18	2 - 24	4 / 32	0/32	MTCA Method A	20,000ª	20,000
V. lone (total)	2 2	00-6	8/32	0/32	MTCA Method A	20,000	20,000
Aylelie (total)	10 - 10	07 = 7					
		70 70	77.70	NA	NA	NA	NA
2-Methylnaphthalene	350 - 720	06/ - 86	91.32	UNI.	G. F. M. A. C. C.	4 900 000 k	210 000 000°
Acenaphthene	350 - 720	91	1/32	0/32	M I C.A Method B	4,800,000	210,000,000
Anthracene	350 - 720	91	1/32	0/32	MTCA Method B	24,000,000	100,000,000
Benzo(a)pyrene	350 - 720	44 - 70	3/32	0/32	MTCA Method B	137°	18,000€
Benzo(b)fluoranthene	350 - 720	48 - 100	4/32	0/32	MTCA Method B	137 ^b	18,000
Benzo(k)fluoranthene	350 - 720	48 - 87	2/32	0/32	MTCA Method B	137 ^b	18,000°
Bis(2-ethylhexyl)phthalate	-	41 - 4900	23 / 32	0 / 32	MTCA Method B	71,400 ^b	
Butylbenzylphthalate		92 - 1600	3/32	0/32	MTCA Method B	16,000,000 ^b	7
Carbazole	350 - 720		1/32	0/32	MTCA Method B	50,000 ^b	6,560,000°
Chrysene	350 - 720	57 - 540	6/32	1 / 32	MTCA Method B	137 ^b	18,000€
Di-n-butvlphthalate	350 - 720	50 - 150	2/32	0/32	MTCA Method B	8,000,000 ^b	350,000,000°
Dimethylphthalate	350 - 720	L	1/32	0/32	MTCA Method B	80,000,000 ^b	350,000,000
Fluoranthene	350 - 720	48 - 210	6/32	0/32	MTCA Method B	3,200,000 ^b	140,000,000°
Fluorene	350 - 720		3/32	0/32	MTCA Method B	3,200,000 ^b	$140,000,000^c$
Nanhthalene	350 - 720		8/32	0/32	MTCA Method B	3,200,000 ^b	$140,000,000^c$
Phenanthrene	350 - 720		7/32	0/32	NA	NA	
Pyrene	350 - 720	36 - 230	13 / 32	0/32	MTCA Method B	2,400,000 ^b	105,000,000°

		Tab	le 3-3 (CO	Table 3-3 (CONTINUED)			
LANDF	ILL SUBS	URFACE SC WENA'	IL SAMP TCHEE, V	ACE SOIL SAMPLE SCREENIN WENATCHEE, WASHINGTON	LANDFILL SUBSURFACE SOIL SAMPLE SCREENING LEVEL SUMMARY WENATCHEE, WASHINGTON	IMARY	
	Range of	Range of		Frequency of		Residential	Industrial
	Detection	Detected	Frequency	Exceedence of	Screening Level	Cleanup	Cleanup
Analyte	Limits	Concentrations*	of Detection	Screening Level	Source	Standards	Standards
Pesticides/PGBs (hg/kg)							
	1.8 - 9.6	0.51 - 660	27/32	0/32	MTCA Method B	4,170°	547,000°
4.4'-DDE	18-9.6	0.63 - 210	29 / 32	0 / 32	MTCA Method B	2,940 ^b	386,000°
4.4-DDT	18-96	0.67 - 52	22 / 32	0 / 32	MTCA Method A	1,000	5,000ª
Aldrin	18-96	2.1 - 8.2	2/32	0/32	MTCA Method B	58.8 _b	7,720°
Alnha-BHC	18-9.6	4.2 - 22	2/32	0/32	MTCA Method B	159 ^b	20,800°
A lpha-chlordane	18-96	11-26	9/32	0/32	MTCA Method B	₄ 69 <i>L</i>	101,000°
Aroclor1242	35.190	150	1/32	0/32	MTCA Method A	1,000	10,000
Aroclor1254	35 - 190	40 - 470	2/32	0/32	MTCA Method A	1,000	10,000ª
Beta-BHC	18-96	27-16	8/32	0/32	MTCA Method B	556 ⁶	72,900°
Delta BHC	18-9.6	5	1/32	NA	NA	NA	NA
Dieldrin	3.5 - 19	1.1 - 21	13/32	0/32	MTCA Method B	62.5 ^b	8,200°
Endosulfan I	18-96	2.0 - 51	3/32	0/32	MTCA Method B	480,000 ^b	21,000,000°
Endosulfan sulfate	3.5 - 19	3.7 - 11	3/32	NA	NA	NA	NA
Endrin	3.5-19	0.80 - 9.0	5/32	0/32	MTCA Method B	24,000 ^b	1,050,000°
Endrin aldehyde	3.5 - 19	4.6 - 5.4	2/32	NA	NA	NA	ΥN
Endrin ketone	3.5 - 19	0.65 - 11	4/32	NA	NA	NA	NA
Gamma chlordane	1.8 - 9.6	0.60 - 28	16/32	NA	NA	NA	ŅĀ
Inorganies (mg/kg)		`)					
Antimony	0.60 - 0.88	0.88 - 4.3	9/32	0/32	EPA Region 9 PRG	304	7509
Arsenic	0.66 - 0.89	1.6 - 43.9	30 / 32	4/32	MTCA Method A	20	200.0ª
Barium	0.14 - 0.21	52.8 - 394	33 / 32	0 / 32	MTCA Method B	5,600 ^b	245,000°
Beryllium	0.08 - 0.21	0.16 - 0.68	33 / 32	24 / 32	MTCA Method B	0.233 ^b	30.5°
Cadmium	0.10 - 0.11	0.24 - 1.2	5/32	0/32	MTCA Method A	2ª	10.0ª
Chromium	0.20 - 0.30	8.8 - 62.5	32 / 32	0 / 32	MTCA Method A	100	500.0ª
Cobalt	0.44 - 0.67	4.5 - 14.7	32/32	0/32	EPA Region 9 PRG	3,300 ^d	29,000 ^d
Key at end of the table.							

		Tal	ble 3-3 (CC	Table 3-3 (CONTINUED)			
LAND	FILL SUB	SURFACE SO	OIL SAMF	LE SCREEN	LANDFILL SUBSURFACE SOIL SAMPLE SCREENING LEVEL SUMMARY	MMARY	
		WENA	TCHEE, 1	WENATCHEE, WASHINGTON	N	٠.	
	Range of	Range of		Frequency of		Residential	Industrial
	Detection	Detected	Frequency	Exceedence of	Screening Level	Cleanup	Cleanup
Analyte	Limits	Concentrations*	of Detection	٠,	Source	Standards	Standards
Inorganies (mg/kg)							
Copper	0.50 - 0.76	9.4 - 85.7	32/32	0/32	MTCA Method B	2,960 ^b	130,000€
Lead	0.34 - 0.52	3.5 - 437	32 / 32	2/32	MTCA Method A	250	1.000.0ª
Manganese	0.12 - 0.18	201 - 1780	32 / 32	0/32	MTCA Method B	11.200 ^b	490.000€
Mercury	0.05 - 0.06	06.0 - 80.0	4./32	0/32	MTCA Method A	1.0	1.0
Nickel	0.50 - 0.76	11.3 - 61.9	32/32	0/32	MTCA Method B	1,600	70.000€
Selenium	1.1 - 2.7	0.90 - 2.3	21/32	0/32	MTCA Method B	400b	17,500°
Silver	0.28 - 0.42	0.43 - 1.6	32 / 32	0/32	MTCA Method B	400b	17.500°
Thallium	0.65 - 0.88	0.87 - 2.2	24 / 32	0/32	MTCA Method B	5.6 ^b	245°
Vanadium	0.28 - 0.42	23.8 - 74.1	32 / 32	0/32	MTCA Method B	260°	24.500°
Zinc	0.48 - 0.73	39.7 - 505	32 / 32	0/32	MTCA Method B	24,000 ^b	1.050.000
Diovins/Auralis (qig/kg)	7						
1,2,3,4,6,7,8-HpCDD	0.32 - 0.51	0.374 - 106.124	19/21	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	0.09 - 2.4	0.405 - 23.511	16/21	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	0.13 - 2.0	1.393 - 1.629	2/21	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	0.14 - 1.2	2.461 - 3.754	2/21	NA	NA	NA	NA
11,2,3,4,7,8-HxCDF	0.09 - 0.64	1.012 - 25.284	14/21	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	0.09 - 0.8	0.295 - 2.254	5/21	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	0.07 - 1.1	1.055 - 1.173	2/21	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	0.1 - 2.2	0.870 - 1.744	2/21	NA	NA	NA	NA
1,2,3,7,8-PeCDD	0.1 - 2.0	1.027	1/21	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	0.08 - 0.9	1.044 - 3.079	3/21	NA	NA	NA	NA
2,3,4,7,8-PeCDF	0.08 - 4.8	0.301 - 1.851	3/21	NA	NA	NA	AN.
2,3,7,8-TCDD	0.09 - 0.55	0.388 - 1.119	2/21	NA	NA	NA	NA

		Tab	le 3-3 (CO	Table 3-3 (CONTINUED)			
LANDE	ILL SUBS	SURFACE SC	IL SAMP	LE SCREENI	LANDFILL SUBSURFACE SOIL SAMPLE SCREENING LEVEL SUMMARY	IMARY	
		WENA	TCHEE, V	WENATCHEE, WASHINGTON	Z		
	Range of	Range of		Frequency of		Residential	Industrial
	Detection	Detected	Frequency	Frequency Exceedence of	Screening Level	Cleanup	Cleanup
Analyte	Limits	Limits Concentrations* of Detection Screening Level	of Detection	Screening Level	Source	Standards	Standards
Dioxins (the mis (ng/lg))							
2,3,7,8-TCDF	0.12 - 0.42	0.12 - 0.42 0.3798 - 3.6197	8/21	NA	NA	NA	NA
OCDD	3.7 - 15.9	3.7 - 15.9 4.186 - 1255.142 19 / 21	19/21	NA	NA	NA	NA
OCDF	0.16 - 12.0	0.16 - 12.0 1.157 - 53.484	16/21	NA	NA	NA	NA
Total toxicity equivalency	,	0.001 - 4.332	21/21	0/21	MTCA Method B	6.67 ^b	875°

Detected concentrations less than the associated detection limits are considered estimated quantities

^a WDOE Method A cleanup level.

b WDOE Method B cleanup level.

^c WDOE Method C cleanup level.

^d EPA, Region 9, PRG.

Key:

= United States Environmental Protection Agency. EPA µg/kg mg/kg MTCA

= Micrograms per kilogram.= Milligrams per kilogram.= Model Toxics Control Act.

= Nanograms per kilogram. = Not analyzed. ng/kg

Ν

= Preliminary remediation goal. = Polychlorinated biphenyls. PCBs

PRG

= Semivolatile organic compounds. SVOCs

= Washington Department of Ecology. = Volatile organic compounds. VOCs WDOE

Table 3-4

LANDFILL GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON

	Groundwater			
LOCATION ID	Cleanup	LF02GW32	LF03GW32	LF11GW24
DEPTH	Standards	32 ft bgs	32 ft bgs	24 ft bgs
VOCs (µg/L)				
1,2-Dichloroethane	0.481 ^b	10 U	100 U	<u>21</u>
Acetone	800 _p	2 J	130	10 U
Benzene	. 5ª	2 J	100 U	10 U
Carbon Disulfide	800 _p	. 2 J	100 U	10 U
Chlorobenzene	160 ^b	5 J	100 U	10 U
Methylene Chloride	5ª	10 U	<u>420</u>	10 U
Tetrachloroethene	5ª	10 U	. 100 U	1 J
Xylene (total)	20ª	2 Ј	100 U	10 U
SVOCs (µg/L)				
2-Methylnaphthalene	-	10 U	2 J	10 U
2-Methylphenol	800 ^b	5 J	10 U	10 U
4-Methylphenol	80 ^b	3 Ј	1 J	10 U
Bis(2-ethylhexyl)phthalate	6.25 ^b	10 U	6 J	10 U
Diethylphthalate	12,800 ^b	10 U	2 J	3 J
Naphthalene	320 ^b	1 J	3 J	10 U
Phenol	9,600 ^b	3 J	10 U	10 U
Pesticides/PCBs (µg/L)				
4,4' - DDD	0.365 ^b	0.10 U	1.3 J	0.041 Ј
4,4'-DDE	0.257 ^b	0.10	0.61 J	0.10 U
Aroclor1260	0.1ª	1.0 U	1.0 U	<u>0.41</u> J
Inorganics (µg/L)				3112 0
Antimony	15°	6.8 J	3 UJ	3.0 UJ
Arsenic	5ª	27.5	45.6	7.1 J
Barium	1,120 ^b	1,330 J	1,930 J	621 J
Beryllium	0.0203 ^b	0.40 U	<u>2</u> J	0.82 J
Cadmium	5 ⁸	2.4 J	5.2	1.1 J
Chromium	50 ⁸	74.9	370	541
Cobalt	2,200°	38.9 J	64.8	30.8 J
Copper	592 ^b	69.1	200	
Lead	5 ^a	130 J	487 J	92.1
Manganese	2,240 ^b	1,880 J	2,430 J	<u>16.5</u> J
Mercury	2,240 2ª	0.16 J		2,470 J
Nickel	320 ^b	73.3	306	0.10 UJ
Selenium	80 ^b			<u>363</u>
Silver		5.8 J	19.7 J	5.8 J
Key is at the end of the table	80 ^b	1.4 UJ	4.2 J	1.4 UJ

Table 3-4 (CONTINUED)

LANDFILL GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON

	Groundwater			
LOCATION ID	Cleanup	LF02GW32	LF03GW32	LF11GW24
DEPTH	Standards	32 ft bgs	32 ft bgs	24 ft bgs
Inorganics (µ2/L)				
Vanadium	112 ^b	66.2	<u>192</u>	96.9
Zinc	4,800 ^b	551 J	2,600 J	140 J
Dioxins/Furans (pg/L)				
1,2,3,4,6,7,8-HpCDF	-	6.746 UJ	32.134 J	4.390 U
1,2,3,4,7,8-HxCDF	-	6.531 UJ	11.583 J	2.998 U
OCDD	-	433.420 UJ	1,037.870	13.882 U
OCDF	 	11.998 UJ	122.027	3.598 U
Total Toxicity Equivalency	0.583 ^b	0.000	<u>1.6</u> .	0.000

Bold type indicates concentrations above sample quantitation limits or detection limits. Note: Underline indicates concentrations above one or more comparison standards.

Key:

- = WDOE Method A cleanup level.
- = WDOE Method B cleanup level.
- = EPA, Region 9, PRG (Tap Water).
- = Below ground surface. bgs
- = Contract Laboratory Program. CLP
- = United States Environmental Protection Agency. EPA
- = Feet. ft
- = Identification. lD
- = The analyte was positively identified. The associated numerical value is an estimate.
- = Micrograms per liter. mg/L
- = Not analyzed. NA
- = Picograms per liter. pg/L
- = Polychlorinated biphenyls. **PCBs**
- = Preliminary remediation goal. PRG
- SVOC = Semivolatile organic compounds.
- = Not detected. U
- = The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
- VOCs = Volatile organic compounds.
- WDO = Washington Department of Ecology.

Table 3-5	- 1-30-
LANDFILL GROUNDWATER SAMPLE SCREENING LEVEL SU	MMARY
WENATCHEE WASHINGTON	

		WENATCH	LL, WASH			
	Range of	Range of	E	Frequency of		Groundwate
Analyte	Detection Limits	Detected Concentrations*	Frequency of Detection	Exceedence of Screening Level	Screening Level Source	Cleanup Standards
VOCs (to/l) te wheren	Dimes .	Concentrations	Detection	Bereeming Level	Source	Standards
1,2-Dichloroethane	10 100	I 01	1/2			
Acetone	10 - 100	21	1/3	1/3	MTCA Method B	0.481 ^b
Benzene	10 - 100	2 - 130	2/3	0/3	MTCA Method B	800 ^b
Carbon Disulfide	10 - 100	2	1/3	0/3	MTCA Method A	5ª
Chlorobenzene	10 - 100	2	1/3	0/3	MTCA Method B	800 _p
Methylene Chloride	10 - 100	5	1/3	0/3	MTCA Method B	160 ^b
Tetrachloroethene	10 - 100	420	1/3	1/3	MTCA Method A	. 5ª
Xylene (total)	. 10 - 100	1	1/3	0/3	MTCA Method A	5ª
, ,	10 - 100	2	1/3	0/3	MTCA Method A	20ª
SVOCS(mg/L), Com	10					
2-Methylnaphthalene 2-Methylphenol	10	2	1/3	_	NA	NA
4-Methylphenol	10	5	1/3	0/3	MTCA Method B	800 ^b
Bis(2-ethylhexyl)phthalate		1 - 3	2/3	0/3	MTCA Method B	80 _p
Diethylphthalate	10	6	1/3	0/3	MTCA Method B	6.25 ^b
	10	2 - 3	2/3	0/3	MTCA Method B	12,800 ^b
Naphthalene	10	1 - 3	2/3	0/3	MTCA Method B	320 ^b
Phenol	10	3	1/3	0/3	MTCA Method B	9,600 ^b
Restrones/RCBs (ng/5)	mostical and a contract finding of the					
4,4'-DDD	0.098 - 0.11	0.041 - 1.3	2/3	1/3.	MTCA Method B	0.365 ^b
4,4'-DDE	0.098 - 0.11	0.10 - 0.61	2/3	1/3	MTCA Method B	0.257 ^b
Aroclor1260	0.98 - 1.1	0.41	1/3	1/3	MTCA Method A	0.1ª
Inorganics (ug/L)	215020200000000000000000000000000000000	16 12 12 12 12 12 12 12 12 12 12 12 12 12				
Antimony	3	6.8	1/3	0/3	EPA Region 9 PRG	15°
Arsenic	- 3	7.1 - 45.6	3/3	3/3	MTCA Method A	. 5ª
Barium	0.7	621 - 1930	3/3	2/3	MTCA Method B	1,120 ^b
Beryllium	0.4	0.82 - 2	2/3	2/3	MTCA Method B	0.0203 ^b
Cadmium	12.6	1.1 - 5.2	3/3	1/3	MTCA Method A	5ª
Chromium	1	74.9 - 541	3/3	3/3	MTCA Method A	50ª
Cobalt	2.2	30.8 - 64.8	3/3	0/3	EPA Region 9 PRG	2,200°
Copper			· · · · · · · · · · · · · · · · · · ·			
	2.5	69.1 - 200	3/3	0/3	MTCA Method B	592 ^b
Lead	2.5	69.1 - 200 16.5 - 487	3/3	3/3	MTCA Method B MTCA Method A	592°
Lead Manganese						5ª
<u> </u>	1.7	16.5 - 487	3/3	3/3	MTCA Method A	
Manganese	1.7 0.6	16.5 - 487 1880 - 2470	3/3	3/3 2/3	MTCA Method A MTCA Method B MTCA Method A	5 ^a 2,240 ^b 2 ^a
Manganese Mercury	1.7. 0.6 0.1	16.5 - 487 1880 - 2470 0.16 - 0.45	3/3 3/3 2/3 3/3	3/3 2/3 0/3 1/3	MTCA Method A MTCA Method B MTCA Method A MTCA Method B	5 ^a 2,240 ^b 2 ^a 320 ^b
Manganese Mercury Nickel	1.7 0.6 0.1 2.5	16.5 - 487 1880 - 2470 0.16 - 0.45 73.3 - 363	3/3 3/3 2/3 3/3 3/3	3/3 2/3 0/3 1/3 0/3	MTCA Method A MTCA Method B MTCA Method A MTCA Method B MTCA Method B	5 ^a 2,240 ^b 2 ^a 320 ^b 80 ^b
Manganese Mercury Nickel Selenium	1.7. 0.6 0.1 2.5 2.3	16.5 - 487 1880 - 2470 0.16 - 0.45 73.3 - 363 5.8 - 19.7	3/3 3/3 2/3 3/3	3/3 2/3 0/3 1/3	MTCA Method A MTCA Method B MTCA Method A MTCA Method B	5 ^a 2,240 ^b 2 ^a 320 ^b

Table 3-5 (CONTINUED)

LANDFILL GROUNDWATER SAMPLE SCREENING LEVEL SUMMARY WENATCHEE, WASHINGTON

		WEIGHT	DD, 1112-1-			10 1 1
Analyte	Range of Detection Limits	Range of Detected Concentrations*	Frequency of Detection	Frequency of Exceedence of Screening Level	Screening Level Source	Groundwater Cleanup Standards
Dioxins/Eurans (pg/L)						
1,2,3,4,6,7,8-HpCDF	1.7 - 8.4	32.134	1/3	NA	NA	NA
1,2,3,4,7,8-HxCDF	2.1 - 6.5	11.583	1/3	NA	NA	NA
OCDD	9.7 - 516	1037.870	1/3	NA	NA	NA
OCDF	3.4 - 12	122.027	1/3	NA	NA	NA
Total toxicity equivalency	•	1.6	1/1	1/1	MTCA Method B	0.583 ^b

^{*} Detected concentrations less than the associated detection limits are considered estimated quantities.

Key:

= United States Environmental Protection Agency. EPA

= Model Toxics Control Act. MTCA = Micrograms per liter.

μg/L = Picograms per liter. pg/L PRG

= Preliminary remediation goal.

WDOE Method A cleanup level.

^b WDOE Method B cleanup level.

^c EPA, Region 9, PRG.

					Table 3-6						
	-	PUBLIC WORKS DEPARTMENT PROPERTY SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON	RKS DEP. AN	ARTMENT ALYTICA WENATCI	EPARTMENT PROPERTY SUBSURE, ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON	Y SUBSUE S SUMMA! UNGTON	TACE SO	IL SAMPL)			
	Residential	Industrial									
LOCATION ID	Cleanup	Cleanup	LF04SB04	LF04SB12	LF05SB04	LF05SB12	LF06SB04	LF06SB12	- 1	LF14SB08	LF06SB04B
DEPTH	Standards	Standards	0 - 4 ft bgs	8 - 12 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	0 - 4 ft bgs
VOCs (µg/kg)											
2-Butanone	6,900,000 ^d	27,000,000 ^d	11 U	11 U	2 J	11 U	11 U	f 6	11 U	10 U	NA
Acetone	8,000,000°	350,000,000	11 U	11 U	11 U	11 U	34	51	11 U	10 U	NA
SVOCs (trailed)											
2-Methylnaphthalene	-	-	380 U	360 U	350 UJ	350 UJ	350 U	55 J	350 U	54 J	NA
4-Nitroaniline	-	-	950 U	D 006	890 UI	880 UJ	890 U	940	N 068	N 098	NA
Acenaphthene	4,800,000 ^b	210,000,000 ^b	380 U	360 U	350 UI	350 UJ	350 U	380 U	350 U	410	NA
Anthracene	24,000,000 ^b	 	380 U	360 U	350 UJ	350 UJ	350 U	380 U	350 U	1,500	NA
Benzo(a)anthracene	137 ^b	+	380 U	360 U	350 UI	350 UJ	350 U	42 J	51 J	3,200	NA
Benzo(a)pyrene	137 ^b	18,000€	380 U	360 U	350 UJ	350 UJ	350 U	380 U	93 J	2,200	NA
Benzo(b)fluoranthene	137 ^b	18,000€	380 U	360 U	350 UJ	350 UJ	350 U	380 U	95 J	1,100	NA
Benzo(g,h,i)perylene	-	,	380 U	360 U	350 UJ	350 UJ	350 U	380 U	120 J	480	NA
Benzo(k)fluoranthene	137 ^b	18,000€	380 U	360 U	. 350 UJ	350 UJ	350 U	380 U	350 U	1,200	NA
Bis(2-ethylhexyl)phthalate	71,400 ^b	9,370,000	380 U	360 U	5,200 J	320 J	54 J	380 U	280	39 J	NA
Carbazole	16,000,000 ^b	ļ	380 U	360 U	350 UI	350 UJ	350 U	380 U	350 U	1,200	NA
Chrysene	137 ^b	<u> </u>	380 U	360 U	350 UJ	350 UJ	350 U	61 J	59 J	3,200	NA
Di-n-butylphthalate	8,000,000	+	380 U	360 U	350 UI	350 UJ	170 J	52 J	350 U	340 U	NA
Dibenzofuran	1,100,000 ^d		380 U	360 U	350 UJ	350 UJ	350 U	380 U	350 U	210 J	NA
Dibenz(a,h)anthracene	137 ^b	18,000€	380 U	360 U	350 UJ	350 UJ	350 U	380 U	350 U	420	NA
Fluoranthene	3,200,000 ^b	140,000,000	380 U	360 U	350 UJ	350 UJ	350 U	68 J	140 J	6,400	NA
Fluorene	3,200,000 ^b	140,000°	380 U	360 U	350 UJ	350 UJ	350 U	380 U	350 U	360	NA
Indeno(1,2,3-cd)pyrene	137 ^b	18,000€	380 U	360 U	350 UJ	350 UJ	350 U	380 U	67 J	1,200	NA
Phenanthrene	·	1	380 U	360 U	350 UJ	350 UI	350 U	f 09	68 J	5,600	NA
Pyrene	2,400,000 ^b	105,000,000	380 U	360 U	350 UJ	350 UJ	350 U	110 J	190 J	6,200	NA
Perticides/PCBs (ng/kg		1000000									
4,4'-DDD	4,170 ^b	547,000°	26	17	6.7	3.5 U	210	230	5.6	4.6	NA
4,4'-DDE	2,940 ^b	386,000°	09	15	6.0	1.9 J	73	62	31	3.4 U	NA
4,4'-DDT	1,000ª	5,000ª	7.2	2.6 J	4.5	3.5 U	3.9 J	5.8 J	19	2.0 J	NA
77											

Total Cleaning Lipuschiage Lipuschia	The color of the					Table 3	Table 3-6 (CONTINUED)	VUED)					
Colonia Residentia Industria Indus			2.		RKS DEPA	ARTMENT ALYTICA WENATCI	PROPERT L RESULTS HEE, WASI	Y SUBSUI S SUMMA]	RFACE SOR	IL SAMPL	ച		
	TODALID Cleanup Cleanup LF04SB14 LF0ASB14 LF0ASB14 <t< td=""><td></td><td>Residential</td><td>Industrial</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Residential	Industrial									
Carticolitical Control Standards Sta	Simularida Sim	TION ID	Cleanup	Cleanup	LF04SB04	LF04SB12	LF05SB04	LF05SB12	LF06SB04	LF06SB12	LF14SS00	LF14SB08	LF06SB04E
National State Nati	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		Standards	Standards		8 - 12 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	0 - 4 ft bgs	8 - 12 ft bgs	0-4ft bgs	8 - 12 ft bgs	0 - 4 ft bgs
type 30,000 ^d 750,000 ^d R R	type 30,000¢ 750,000¢ 750,000¢ R <td>nics (11g/kg)</td> <td></td>	nics (11g/kg)											
20° 200° 28.7 J	1,000	ony	30,000 ^d	750,000 ^d	R	R	R	R	R	R	R	R	NA
1,500 245,000° 245,000° 245,000° 245,000° 245,000° 245,000° 245,000° 245,000° 245,000° 245,000° 245,000° 25,00° 25,00°	Signoph		208	200.0	28.7 J	5.0 J	3.4 J	2.9 J	15.9 J	18.8 J	17.4 J	4.2 J	NA
mm 100° 30.5° 0.34 J 0.25 J	mm 100° 30.5° 30.5° 40.44 1 0.22 1 0.22 1 0.25 1 0.35 1 0.	u	5,600 ^b	245,000°	85.5	82.2	105	119	2.66	92.9	149	78.5	NA
mm 100° 500.0° 15.2 17.2 31.6 28.5 19.8 19.5 25.3 J 20.7 J 3,300° 2,960° 130,000° 14.7 17.0 20.8 19.7 30.2 17.0 18.1 13.8 2,960° 130,000° 14.7 17.0 20.8 19.7 130.2 17.0 18.1 13.8 2,960° 130,000° 13.4 23.0 J 102.3 89.3 130.2 17.0 J 17.0 J 1,500° 1,000° 13.7 23.0 J 20.5 U 0.05 U 0.05 U 0.05 U 0.05 U 1,600° 1,000° 11.7 12.7 23.3 23.3 19.7 14.1 15.6 13.7 1,600° 1,500° 15.0 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1,600° 1,500° 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1,500° 1,500° 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1,500° 1,500° 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1,500° 1,500° 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1,500° 1,500° 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1,500° 1,500° 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1,500° 1,500° 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 2,600° 2,4500° 2,4500° 3.6.2 J 4.5 U 1.4 U 1.5 U 1.5 U 2,78 HACDP	100° 500° 15.2 17.2 31.6 28.5 19.8 19.5 25.3 J 20.7 J 3,300° 2,900° 6.8 J 6.5 J 9.2 J 8.1 J 8.1 J 6.6 J 8.9 J 6.2 J 2,960° 130,000° 14.7 17.0 20.8 19.7 34.8 19.5 17.0 J 17.1 J 17.0 J 2,960° 1,000,0° 13.7 345 340 348 334 410 348 11.2 J 1,00° 1,00° 1.5 J 1.2 J 10.2 J 10.2 J 1.5 J 1.5 J 1.5 J 1.5 J 1,00° 1,00° 1.5 J 1,00° 1,50° 1.5 J 1,00° 1,50° 1.5 J 1,00° 1,50° 24.5 J 1,00° 2,00° 2,00° 24.5 J 1,00° 2,00° 2,00° 2.5 J 1,00° 2,00° 2,00° 2.5 J 1,00° 2,00° 2,00° 2.5 J 1,00° 2,00° 2,00° 2.5 J 1,00° 2,00° 2.5 J 1,00° 2,00° 2.5 J 2,00° 2,00° 2.5 J 3,00° 2,00° 2.5 J 3,00° 2,00° 2.5 J 3,00° 2,00° 2.5 J 3,00° 2,00° 2.5 J	um	0.233 ^b	30.5°	0.34 J	0.27 J	0.29 J	0.25 J	0.2 <u>5</u> J	0.36 J	0.36 J	0.35 J	NA
3,300 ⁴ 29,000 ⁴ 68 J 65 J 81 J 81 J 66 J 89 J 62 J 62 J 2,960 ⁵ 139,000 ⁶ 147 17.0 20.8 19.7 30.2 17.0 18.1 13.8 2,960 ⁵ 139,000 ⁶ 134 J 23.0 J 10.2 J 8.9 J 130 J 162 J 71.2 J 17.0 J 1,000 ⁵ 1,000,00 ⁶ 337 345 360 340 348 33.3 410 343 1,000 ⁵ 1,000,00 ⁶ 11.7 12.7 23.3 19.7 14.1 15.6 13.7 1,600 ⁵ 1,500 ⁶ 1,500 ⁶ 1,50 1,50 1,50 1,50 1,50 1,000 ⁵ 1,500 ⁶ 1,500 ⁶ 1,50 1,50 1,50 1,50 1,50 1,000 ⁵ 1,500 ⁶ 1,500 ⁶ 1,50 1,50 1,50 1,50 1,50 1,000 ⁵ 1,500 ⁶ 1,500 ⁶ 1,50 1,50 1,50 1,50 1,50 1,000 ⁵ 1,500 ⁶ 1,500 ⁶ 1,50 1,50 1,50 1,50 1,50 1,000 ⁶ 1,500 ⁶ 1,500 ⁶ 1,50 1,50 1,50 1,50 1,50 1,000 ⁶ 1,500 ⁶ 1,500 ⁶ 1,50 1,50 1,50 1,50 1,50 1,000 ⁶ 1,500 ⁶ 1,500 ⁶ 1,50 1,50 1,50 1,50 1,50 1,50 1,000 ⁶ 1,500 ⁶ 1,500 ⁶ 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,000 ⁶ 1,500 ⁶ 1,500 ⁶ 1,500 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,000 ⁶ 1,000 ⁶ 1,500	3,300 ⁴ 29,000 ⁴ 68 J 65 J 92 J 81 J 66 J 89 J 62 J 62 J 2,960 ^b 130,000 ^c 147 17.0 20.8 19.7 130 J 17.0 18.1 13.8 2,960 ^b 1,000,0 ^c 134 J 23.0 J 10.2 J 89 J 130 J 162 J 71.2 J 17.0 J 1,000 ^b 1,000,0 ^c 337 345 360 346 348 333 410 343 1,000 ^b 1,000,0 ^c 11.7 12.7 23.3 19.7 14.1 15.6 13.7 1,600 ^b 1,500 ^c 1.5 U 1,600 ^b 1,500 ^c 1.5 U 1,500 ^c 1,500 ^c 1.5 U 1,500 ^c 24,500 ^c 37.0 36.2 45.6 40.7 39.4 36.5 47.7 33.7 1,600 ^c 1,650,000 ^c 58.5 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 99.3 J 2,640,000 1,650,000 ^c 58.5 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J 3,840,000 1,650,000 ^c 58.5 J 1.034 NA NA NA NA NA 1.834 0.218 U 3,840,000 1,650,000 ^c 58.5 J 1.034 NA NA NA NA NA 1.834 0.218 U 3,840,000 1,650,000 ^c 58.5 J 1.035 U NA NA NA NA 1.834 0.218 U 3,840,000 1,650,000 ^c 58.5 J 1.035 U NA NA NA NA NA 1.834 0.218 U 3,840,000 1,650,000 ^c 58.5 J 1.035 U NA NA NA NA NA NA 1.834 0.218 U 3,840,000 1,650,000 1.620 U 0.140 U NA NA NA NA 0.902 J 0.130 U 3,840,000 1.650,000 1.650,000 0.140 U NA NA NA NA 0.902 J 0.131 U 3,840,000 1.650,000 0.140 U NA NA NA NA 0.902 J 0.131 U 3,840,000 1.650,000 0.140 U NA NA NA 0.902 J 0.131 U 3,840,000 0.140 U 0.140 U NA NA NA 0.902 J 0.131 U 3,840,000 0.140 U 0.140 U NA NA NA 0.902 J 0.131 U 3,840,000 0.140 U 0.140 U NA NA NA 0.902 J 0.131 U 3,840,000 0.140 U 0.140 U NA NA NA 0.902 J 0.131 U 3,840,000 0.140 U 0.140 U 0.140 U NA NA 0.902 J 0.131 U	nium	100ª	\$00.0	15.2	17.2	31.6	28.5	19.8	19.5	25.3 J	20.7 J	NA
See 11,200 490,000° 147 170 20.8 19.7 30.2 17.0 18.1 13.8	See 11,200 130,000 14.7 17.0 20.8 19.7 30.2 17.0 18.1 13.8 See 11,200 490,000 347 345 360 348 343 410 343 International		3,300 ^d	29,000 ^d	f. 8.9	6.5.J	9.2 J	8.1 J	8.1 J	f 9.9	8.9 J	6.2 J	NA
See 11,200° 134 J 23.0 J 102 J 8.9 J 130 J 162 J 17.2 J 17.0 J	ese 11,200b 134 J 23.0 J 10.2 J 130 J 162 J 17.0 J 17.0 J ese 11,200b 490,000° 337 345 360 340 348 333 410 343 r 1.0° 1.0° 0.05 U 0.16 0.05 U 0.05 U <td>2</td> <td>2,960^b</td> <td>130,000</td> <td>14.7</td> <td>17.0</td> <td>20.8</td> <td>19.7</td> <td>30.2</td> <td>17.0</td> <td>18.1</td> <td>13.8</td> <td>NA</td>	2	2,960 ^b	130,000	14.7	17.0	20.8	19.7	30.2	17.0	18.1	13.8	NA
1,000 490,000 337 345 360 340 348 333 410 343 343 345	11,200		250ª	1,000.0ª	134 J	23.0 J	10.2 J	8.9 J	130 J	162 J	71.2 J	17.0 J	NA
n 1.0° 0.05 U 0.07 U 0.07 U 0.07 U 0.07 U	1.0° 1.0°	anese	11,200 ^b	490,000°	337	345	360	340	348	333	410	343	NA
n 1,600b 70,000° 11.7 12.7 23.3 23.3 19.7 14.1 15.6 13.7 n 400b 17,500° 1.5 U 1.5 U 2.0 U 1.9 U 1.6 U 1.5 U 1.5 U n 400b 17,500° 0.73 J 0.74 J 0.77 J 0.70 J 0.78 J 0.86 J 0.77 J n 5.6 b 245° 1.1 J 1.2 J 1.1 J 0.70 J 0.78 J 0.88 J 1.3 J n 5.6 b 24,500° 37.0 36.2 45.6 40.7 39.4 36.5 47.7 33.7 sec b 24,000b 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J sec b 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J sec b 1,000b 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J </td <td>n 400b 70,000° 11.7 12.7 23.3 23.3 19.7 14.1 15.6 13.7 n 400b 17,500° 1.5 U 1.5 U 1.9 U 1.6 U 1.5 U 1.5 1.9 n 5.6b 24,500° 24,500° 37.0 36.2 40.7 39.4 36.5 47.7 33.7 SEB 4 2,500° 24,500° 37.0 36.2 45.6 40.7 39.4 36.5 47.7 33.7 SEB 4 2,500° 24,500° 37.0 36.2 45.6 40.7 39.4 36.5 47.7 33.7 SEB 4 2,000 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 6.73 J 1.3 J SEB 4 pcDP - - 1.833 1.044 NA NA NA NA 1.834 0.218 U 5.78 - HpCDP - - 0.154 U 0.135 U NA NA NA NA 1.834 0.218 U<!--</td--><td>ıry</td><td>1.0</td><td>1.08</td><td>0.05 U</td><td>0.16</td><td>0.05 J</td><td>0.05 U</td><td>0.05 U</td><td>0.06 U</td><td>0.05 U</td><td>0.43</td><td>NA</td></td>	n 400b 70,000° 11.7 12.7 23.3 23.3 19.7 14.1 15.6 13.7 n 400b 17,500° 1.5 U 1.5 U 1.9 U 1.6 U 1.5 U 1.5 1.9 n 5.6b 24,500° 24,500° 37.0 36.2 40.7 39.4 36.5 47.7 33.7 SEB 4 2,500° 24,500° 37.0 36.2 45.6 40.7 39.4 36.5 47.7 33.7 SEB 4 2,500° 24,500° 37.0 36.2 45.6 40.7 39.4 36.5 47.7 33.7 SEB 4 2,000 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 6.73 J 1.3 J SEB 4 pcDP - - 1.833 1.044 NA NA NA NA 1.834 0.218 U 5.78 - HpCDP - - 0.154 U 0.135 U NA NA NA NA 1.834 0.218 U </td <td>ıry</td> <td>1.0</td> <td>1.08</td> <td>0.05 U</td> <td>0.16</td> <td>0.05 J</td> <td>0.05 U</td> <td>0.05 U</td> <td>0.06 U</td> <td>0.05 U</td> <td>0.43</td> <td>NA</td>	ıry	1.0	1.08	0.05 U	0.16	0.05 J	0.05 U	0.05 U	0.06 U	0.05 U	0.43	NA
n 400b 17,500° 1.5 U 1.5 U 1.9 U 1.6 U 1.5 U 1.	n 400b 17,500° 1.5 U 1.5 U 1.9 U 1.6 U 1.5 U 1.		1,600 ^b	70,000	11.7	12.7	23.3	23.3	19.7	14.1	15.6	13.7	NA
a 400b 17,500° 0.73 J 0.74 J 0.70 J 0.70 J 0.78 J 0.86 J 0.77 J a 5.6° 245° 1.1 J 1.2 J 1.1 J 1.1 J 0.72 J 1.4 J 0.98 J 1.3 J im 5.6° 245° 1.1 J 1.2 J 1.1 J 1.1 J 0.72 J 1.4 J 0.98 J 1.3 J statistic ling/light 24,000° 1,050,000° 38.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J statistic ling/light - 1,050,000° 38.6 J 1.014 NA NA NA NA 1.3 J 90.3 J statistic ling/light - 1,050,000° 38.6 J 1.014 NA NA NA NA 1.3 J 90.3 J statistic ling/light - 1,020,000° 38.6 J 1.014 NA NA NA NA 1.3 J 90.3 J 1.3 J statistic ling/light - 1,022 J	400b 17,500° 0.73 J 0.74 J 0.77 J 0.70 J 0.78 J 0.86 J 0.77 J im 5.6b 24,500° 1.1 J 1.1 J 1.1 J 0.72 J 1.4 J 0.98 J 1.3 J sight 5.6b 24,500° 37.0 36.2 45.6 40.7 39.4 36.5 47.7 33.7 sight 24,000b 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J sight 24,000b 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J sight 24,000b 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J sight 24,000b 1,050,000° 58.6 J 1,01 J NA	mn	400 _b	17,500°	1.5 U	1.5 U	2.0 U	U 6:1	1.6 U	1.5 U	1.5	1.9	NA
n 56°b 245°c 1.1 J 1.2 J 1.1 J 1.1 J 1.1 J 0.72 J 1.4 J 0.98 J 1.3 J im 560°b 24,500° 37.0 36.2 45.6 40.7 39.4 36.5 47.7 33.7 statement (npUlp) 24,000° 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J statement (npUlp) - 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J statement (npUlp) - - 1.833 1.014 NA NA NA NA 1.334 0.208 U straction - 0.154 U 0.135 U NA NA NA NA 1.834 0.233 U 7/8-HxCDF - - 0.156 U 0.140 U NA NA NA 0.359 J 0.174 U 7/8-HxCDF - - 0.196 U 0.114 U NA	n 5.6° 245° 1.1 J 1.2 J 1.1 J 1.1 J 1.1 J 0.72 J 1.4 J 0.98 J 1.3 J im 560° 24,500° 37.0 36.2 45.6 40.7 39.4 36.5 47.7 33.7 \$Furans (ng/lg) 24,000° 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J \$Furans (ng/lg) - - 1,833 1.014 NA 1.834 0.218 U \$6.78-HpCDF - - 1,833 1.014 U NA NA NA NA NA 1.834 0.218 U \$6.78-HxCDF - - 1,014 U NA NA NA NA NA 0.230 U 1.74 U 7/8-HxCDF - - 1,130 U 0.140 U NA NA NA 0.902 J 0.174 U 7/8		400 _p	17,500°	0.73 J	0.74 J	0.77 J	0.70 J	0.70 J	0.78 J	0.86 J	0.77 J	AA
sime 560° 24,500° 37.0 36.2 45.5 45.6 40.7 39.4 36.5 47.7 33.7 six time 24,000° 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J six time 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J six time 1 <	mm 560b 24,500° 37.0 36.5 45.6 40.7 39.4 36.5 47.7 33.7 SKEATAIN (RD/ML) 24,000° 1,050,000° 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J SKEATAIN (RD/ML) - 1,050,000° 58.6 J 1,014 NA NA NA NA 1.63.7 J 90.3 J SKEATAIN (RD/ML) - - 1,833 1,014 NA NA NA NA 1,834 0.218 U 5(7,8-HpCDF - - 0,154 U 0,135 U NA NA NA NA 1,834 0,218 U 7/8-HxCDF - - 1,022 J 1,282 J NA NA NA NA 0,257 J 0,137 U 7/8-HxCDF - - 0,196 U 0,140 U NA NA NA 0,002 J 0,174 U 8-PeCDF - - 15,904 U 9,754 U NA NA	mn	5.6 ^b	245°	1.1 J	1.2 J	1.1 J	1.1 J	0.72 J	1.4 J	0.98 J	1.3 J	NA
sForans (ng/lg) 24,000b 1,050,000c 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J scForans (ng/lg) - 1,050,000c 1,014 D NA NA NA NA AB 5.513 D 0.400 U CA18 U 6,7.8-HpCDF - 0,627 J 2,034 D NA NA NA NA 1,834 D 0.218 U CA18 U 7,8-HxCDF - 0,154 U 0,135 U 0,135 U 0,140 U NA NA NA NA 0,567 D 0,233 U 7.8-HxCDF NA NA NA 0,050 J 0,134 U 0,140 U NA NA NA 0,050 J 0,174 U NA NA NA 0,050 J 0,174 U NA NA NA 0,050 J 0,133 U 1,129 0,135 U NA NA NA 0,050 J 0,135 U 0,135	s.Forans (ng/kg) 24,000b 1,050,000c 58.6 J 79.0 J 59.5 J 53.1 J 76.9 J 84.0 J 63.7 J 90.3 J s.T.8-HyCDD - - 1,833 1,014 NA NA NA NA NA NA 1,834 0.218 U 6.7.8-HyCDD - - 0,627 J 2,034 NA NA NA NA 1,834 0,218 U 7.8-HxCDD - - 0,154 U 0,135 U NA NA NA NA NA 0,237 U 0,218 U 7.8-HxCDF - - 0,156 U 0,140 U NA NA NA NA 0,233 U 0,733 U 7.8-HxCDF - - 0,113 U 0,114 U NA NA NA 0,902 J 0,174 U 8-PeCDF - - 1,594 U 9,754 U NA NA NA 49.865 1,293 U 1,293 9xicity Equivalency 6.67b 875 C 0,129 N	ium	₄ 095	24,500 ^c	37.0	36.2	45.6	40.7	39.4	36.5	47.7	33.7	NA
6,7,8-HpCDD - 1.833 1.014 NA NA NA 5.513 0.400 U 6,7,8-HpCDD - - 0.627 J 2.034 NA NA NA NA 1.833 0.218 U 6,7,8-HpCDD - - 0.154 U 0.135 U NA NA NA NA 0.218 U 7,8-HxCDD - - 1.022 J 1.282 J NA NA NA NA 0.357 U 7,8-HxCDF - - 0.196 U 0.140 U NA NA NA NA 0.902 J 0.174 U 8-PeCDF - - 0.113 U 0.114 U NA NA NA NA 0.902 J 0.174 U 8-PeCDF - - 15:904 U 9.754 U NA NA NA 49.865 1.293 U 0.505 B - 1.129 0.925 J NA NA NA 4.353 0.351 U 0.001 B - - 1.129	6.7.8-HpCDD - 1.833 1.014 NA NA NA LA 5.513 0.400 U 6.7.8-HpCDD - - 0.627 J 2.034 NA NA NA NA 1.833 0.218 U 7.8-HxCDD - - 0.154 U 0.135 U NA NA NA NA 0.567 0.218 U 7.8-HxCDF - - 1.022 J 1.282 J NA NA NA NA 0.567 0.218 U 7.8-HxCDF - - 0.196 U 0.140 U NA NA NA NA 1.14 U 8-PeCDF - - 15.904 U 9.754 U NA NA NA NA 49.865 1.293 U 3xicity Equivalency 6.67b 875c 0.128 0.159 NA NA NA NA 1.756 0.001 the end of the table. - - 1.129 0.159 NA NA NA 49.865 1.293		24,000 ^b	1,050,000°	28.6 J	L 0.67	59.5 J	53.1 J	76.9 J	84.0 J	63.7 J	90.3 J	NA
6.7.8-HpCDD - 1.833 1.014 NA NA NA 5.513 0.400 U 6.7.8-HpCDF - - 0.627 J 2.034 NA NA NA 1.834 0.218 U 7,8-HxCDD - - 0.154 U 0.135 U NA NA NA NA 0.357 U 7,8-HxCDF - - 1.022 J 1.282 J NA NA NA NA 0.357 U 7,8-HxCDF - - 0.196 U 0.140 U NA NA NA NA 0.902 J 0.174 U 8-PeCDF - 0.113 U 0.114 U NA NA NA 0.359 J 0.233 U 0.233 U 8-PeCDF - 15.904 U 9.754 U NA NA NA 49.865 1.293 U - 1,129 0.925 J NA NA NA 4.353 0.351 U - - 1,129 0.129 NA NA NA 4.353 <td>6.7.8-HpCDD - 1.833 1.014 NA NA NA 5.513 0.400 U 6.7.8-HpCDF - - 0.627 J 2.034 NA NA NA NA 1.834 0.218 U 7,8-HxCDF - - 0.154 U 0.135 U NA NA NA NA 0.357 U 7,8-HxCDF - - 1.022 J 1.282 J NA NA NA NA 0.357 U 7,8-HxCDF - - 0.196 U 0.140 U NA NA NA NA 0.353 U 7,8-HxCDF - - 0.113 U 0.114 U NA NA NA 0.902 J 0.174 U 8-PeCDF - 15.904 U 9.754 U NA NA NA 49.865 1.293 U 0xicity Equivalency 6.67b 875* 0.128 0.159 NA NA NA 4.353 0.001</td> <td>ins/Furans (ng/kg)</td> <td></td>	6.7.8-HpCDD - 1.833 1.014 NA NA NA 5.513 0.400 U 6.7.8-HpCDF - - 0.627 J 2.034 NA NA NA NA 1.834 0.218 U 7,8-HxCDF - - 0.154 U 0.135 U NA NA NA NA 0.357 U 7,8-HxCDF - - 1.022 J 1.282 J NA NA NA NA 0.357 U 7,8-HxCDF - - 0.196 U 0.140 U NA NA NA NA 0.353 U 7,8-HxCDF - - 0.113 U 0.114 U NA NA NA 0.902 J 0.174 U 8-PeCDF - 15.904 U 9.754 U NA NA NA 49.865 1.293 U 0xicity Equivalency 6.67b 875* 0.128 0.159 NA NA NA 4.353 0.001	ins/Furans (ng/kg)											
6,7,8-HpCDF - 0.627 J 2.034 NA NA NA 1.834 0.218 U 7,8-HxCDD - - 0.154 U 0.135 U NA NA NA 0.257 0.233 U 7,8-HxCDF - - 1.022 J 1.282 J NA NA NA NA 0.233 U 7,8-HxCDF - - 0.196 U 0.140 U NA NA NA 0.174 U 8-PeCDF - 0.113 U 0.114 U NA NA NA 0.359 J 0.233 U 8-PeCDF - 15.904 U 9.754 U NA NA NA 49.865 1.293 J 0.235 J 0.225 J NA NA NA 43.853 0.351 U	6,78-HpCDF - 0.627 J 2.034 NA NA NA NA 1.834 0.218 U 7.8-HxCDD - 1.022 J 1.282 J NA NA NA NA 1.834 0.218 U 7.8-HxCDD - 1.022 J 1.282 J NA NA NA NA 13.630 J 0.233 U 7.8-HxCDF - 0.196 U 0.140 U NA NA NA NA NA 0.902 J 0.174 U 8.PeCDF - 15.904 U 9.754 U NA NA NA NA NA NA NA NA 14.865 1.293 U 0.331	4,6,7,8-HpCDD	•	•	1.833	1.014	NA	NA	NA	AN	5.513	0.400 C	106.7
7,8-HxCDD - 0.154 U 0.135 U NA NA NA 0.567 0.537 U 7,8-HxCDF - - 1.022 J 1.282 J NA NA NA NA 13.630 J 0.233 U 7,8-HxCDF - - 0.196 U 0.140 U NA NA NA 0.023 J 0.174 U 8-PeCDF - - 0.113 U 0.114 U NA NA NA 0.359 J 0.233 U 8-PeCDF - - 15.904 U 9.754 U NA NA NA 49.865 1.293 J 0.331 U - 1.129 0.925 J NA NA NA A.353 U 0.351 U - - 1.129 0.159 NA NA NA NA 4.353 0.351 U	7,8-HxCDD - 0.154 U 0.135 U NA NA NA 0.567 0.557 U 7,8-HxCDF - - 1.022 J 1.282 J NA NA NA 13.630 J 0.233 U 7,8-HxCDF - - 0.196 U 0.140 U NA NA NA 0.023 J 0.174 U 8-PeCDF - - 15.904 U 9.754 U NA NA NA NA 0.359 J 0.233 U 8-PeCDF - - 15.904 U 9.754 U NA NA NA NA 49.865 1.293 J 0.233 U 9xicity Equivalency 6.67b 875c 0.129 NA NA NA NA 4.353 0.351 U the end of the table. - 0.128 0.159 NA NA NA 1.756 0.001	4,6,7,8-HpCDF	-	1	0.627 J	2.034	NA	NA	NA.	AA :	1.834	0.218 U	1.364
7,8-HxCDF 1.022 J 1.282 J NA NA NA NA 15.030 J 0.252 O 7,8-B CDF - 0.196 U 0.140 U NA NA NA NA 0.902 J 0.174 U 8-PeCDF 0.113 U 0.114 U NA NA NA NA NA 0.359 J 0.233 U 0.174 U 0.1504 U 9.754 U NA NA NA NA NA 49.865 1.293 U 0.351 U 0.351 V 0.255 V 0	7,8-HxCDF 1.022 J 1.282 J NA NA NA 1.530 J 1.250 J	4,7,8-HxCDD	,	·	0.154 U	0.135 U	¥Z ;	NA	NA Y	V S	13 630 1	0.337 0	0.400 0
7,8-FkCDF - 0.196 U 0.140 U NA NA NA NA 0.359 J 0.174 U 0.8-PeCDF - 0.113 U 0.114 U NA NA NA NA 0.359 J 0.233 U 0.1504 U 9.754 U NA NA NA NA NA 49.865 1.293 U 0.235 U 0.235 U 0.235 U 0.255 J 0.235 U 0.255 J NA	7,8-FkCDF 0.196 U 0.140 U NA NA NA 0.359 J 0.174 U 8-PeCDF 0.113 U 0.114 U NA NA NA NA 0.359 J 0.233 U 15-DECDF 15.904 U 9.754 U NA NA NA NA NA 49.865 1.293 U NX NA NA NA NA 43.865 1.293 U NX NA NA NA NA 43.865 1.293 U NX NA NA NA NA 43.86 0.351 U NX NA NA NA NA NA 1.756 0.001 U NA	4,7,8-HxCDF		-	1.022 J	1.282 J	AN.	NA.	NA.	NA I	13.030	0 1771	0 274 11
8-PeCDF - 0.113 U 0.114 U NA NA NA NA 0.529 J 0.233 U 1.235 U 1.235 U NA NA NA NA 49.865 1.293 U 1.235 U NA NA NA NA 49.865 1.293 U NA NA NA NA 43.865 1.293 U NA NA NA NA NA 4.353 U 0.351 U NA	8-PeCDF - 0.113 U 0.114 U NA NA NA 0.529 J 0.233 U 0.2	6,7,8-HxCDF	-	-	0.196 U	0.140 ∪	ΨZ	NA	NA	NA.	0.300	0.1/4 U	0 217 1
- 15.904 U 9.754 U NA NA NA 49.862 1.293 L 293 NA NA NA 4.353 0.351 U N3 NA NA NA 4.353 0.351 U N3 NA NA NA NA NA 1.756 0.001	- 15.904 U 9.754 U NA NA NA 49.862 1.293 Naicity Equivalency 6.67 ^b 875 ^c 0.128 0.159 NA NA NA NA 1.756 0.001 the end of the table.	7,8-PeCDF	-	,	0.113 U	0.114 U	¥Z;	NA	NA.	NA	U.350 07		10.653
- 1.129 0.925 J NA NA NA 4.353 0.331 U OXICITY Equivalency 6.67 ^b 875 ^c 0.128 0.159 NA NA NA 1.756 0.001	Activity Equivalency 6.67 ^b 875 ^c 0.128 0.159 NA NA NA NA 4.353 0.331 U the end of the table. 6.67 ^b 875 ^c 0.128 0.159 NA NA NA 1.756 0.001	0		1	15.904 U	9.754 U	NA	NA	NA.	NA	49.865	1.293	10.030
6.67 ^b 875 ^c 0.128 0.159 NA NA NA 1.756 0.001	2y 6.67° 875° 0.128 0.159 NA NA NA 1.756 0.001		1	•	1.129	0.925 J	NA	NA	NA	NA	4.353	0.351 ∪	1.488
		Toxicity Equivalency		875°	0.128	0.159	NA	NA	NA	NA	1.756	0.001	0.163

WDOE Method A cleanup level.

^b WDOE Method B cleanup level.

WDOE Method C cleanup level.

d EPA, Region 9, PRG.

Note: Bold type indicates concentrations above sample quantitation limits or detection limits. Underline indicates concentrations above one or more comparison standards.

= Below ground surface.

= Contract Laboratory Program. = United States Environmental Protection Agency.

= Identification.

= The analyte was positively identified. The associated numerical value is an estimate.

= Micrograms per kilogram.

= Not analyzed.

Nanograms per kilogram.
 Polychlorinated biphenyls.
 Preliminary remediation goal.

= Rejected.

= Semivolatile organic compounds. SVOCs

= Not detected.

= The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.

= Volatile organic compounds.

= Washington Department of Ecology.

WDOE

			Table 3-7	-1			
	P	JBLIC WOR	KS DEPAR	PUBLIC WORKS DEPARTMENT PROPERTY	PERTY		
S	UBSURF/	ACE SOIL SA	MPLE SCE TCHEE, W	OIL SAMPLE SCREENING LE WENATCHEE, WASHINGTON	SUBSURFACE SOIL SAMPLE SCREENING LEVEL SUMMARY WENATCHEE, WASHINGTON		
	1 3.	Donge of		Frequency of		Residential	Industrial
	Kange of Detection	Detected	Frequency of		Screening Level	Cleanup	Cleanup
Analyte	Limits	Concentrations*	Detection	Screening Level	Source	Standards	Standards
VOCs (ug/kg)							
2-Butanone	10 - 21	2-9	2 / 8	8/0	EPA Region 9 PRG	6,900,000 ^d	27,000,000
Acetone	10 - 150	34 - 51	2/8	8/0	MTCA Method B	8,000,000°	350,000,000°
SVOCs (ug/kg)							
2-Methylnanhthalene	350 - 720	54 - 55	2/8	NA	NA	ΝΑ	Y'A
4-Nitroaniline	350 - 720	940	1/8	NA	NA	NA NA	NA
Acenaphthene	350 - 720	410	. 1/8	8/0	MTCA Method B	4,800,000°	210,000,000
Anthracene	350 - 720	1500	1/8	8/0	MTCA Method B	24,000,000 ^b	105,000,000
Benzo(a)anthracene	350 - 720	42 - 3200	3 / 8	1 / 8	MTCA Method B	137 ^b	18,000
Benzo(a)pyrene	350 - 720	93 - 2200	2/8	1 / 8	MTCA Method B	137 ^b	18,000€
Benzo(b)fluoranthene	350 - 720	95 - 1100	2/8	1/8	MTCA Method B	137 ^b	18,000°
Benzo(ø h.i)nervlene	350 - 720	120 - 480	2/8	NA	NA	NA	NA
Benzo(k)fluoranthene	350 - 720	1200	1/8	8/0	MTCA Method B	137 ^b	18,000°
Bis(2-ethylhexyl)phthalate	1	54 - 5200	8/5	8/0	MTCA Method B	71,400 ^b	9,370,000°
Carbazole	350 - 720	1200	1/8	8/0	MTCA Method B	16,000,000 ^b	7,000,000°
Chrysene	350 - 720	59 - 3200	3/8	1/8	MTCA Method B	137 ^b	18,000°
Di-n-butylphthalate	350 - 720	52 - 170	2/8	8/0	MTCA Method B	8,000,000 ^b	350,000,000
Dibenzofuran	350 - 720	210	1/8	8/0	EPA Region 9 PRG	킈	10,000,000
Dibenz(a,h)anthracene	350 - 720	420	1/8	8/1	MTCA Method B	137 ^b	18,000€
Fluoranthene	350 - 720	68 - 6400	3/8	8/0	MTCA Method B	3,200,000 ^b	140,000,000
Fluorene	350 - 720	360	1/8	8/0	MTCA Method B	3,200,000 ^b	140,000°
Indeno(1,2,3-cd)pyrene	350 - 720	67 - 1200	2/8	1/8	MTCA Method B	137 ^b	18,000°
Phenanthrene	350 - 720	9095 - 09	3/8	NA	NA	NA	NA
Pyrene	350 - 720	110 - 6200	3/8	8/0	MTCA Method B	2,400,000 ^b	105,000,000°

Key at end o

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	1	PUBLIC WORKS DEPARTMENT PROPERTY	KS DEPAR	TMENT PRO	PERTY		
	SUBSURF	ACE SOIL SA Wena	AMPLE SCI	OIL SAMPLE SCREENING LE Wenatchee washing	SUBSURFACE SOIL SAMPLE SCREENING LEVEL SUMMARY WENATCHEE WASHINGTON	X	
	1 0 25 25	WITH A	Tours, w	ASHINGIOL			
	Kange of	Kange of		Frequency of		Residential	Industrial
Analyte	Detection	Detected Concentrations*	Frequency of	Exceedence of	Screening Level	Cleanup	Cleanup
Pesticides/PCBs (119/kg)	╝			Delecting pevel	Source	Standards	Standards
	,,						
4,4'-DDD	1.8 - 9.6	4.6 - 230	2 / 8	8/0	MTCA Method B	4,170 ^b	547,000°
4,4'-DDE	1.8 - 9.6	1.9 - 73	8/2	8/0	MTCA Method B	2,940 ^b	386,000°
4,4'-DDT	1.8 - 9.6.	2.0 - 19	8/1	8/0	MTCA Method A	1,000	5.000
Inorganics (mg/kg)							
ny	0.60 - 0.88	Ē			EPA Region 9 PRG	30,000	750,000 ^d
Arsenic	0.66 - 0.89	2.9 - 28.7	8/8	8/0	MTCA Method A	208	200 08
Barium	0.14 - 0.21	78.5 - 149	8/8	8/0	MTCA Method B	\$.600 ^b	245 000°
Beryllium	0.08 - 0.21	0.25 - 0.36	8/8	8/8	MTCA Method B	0.233 ^b	30.5°
Chromium	0.20 - 0.30	15.2 - 31.6	8/8	8/0	MTCA Method A	g001	500.0
Cobalt	0.44 - 0.67	6.2 - 9.2	8/8	8/0	EPA Region 9 PRG	3,300	29,000 ^d
Copper	0.50 - 0.76	13.8 - 30.2	8/8	8/0	MTCA Method B	2,960 ^b	130,000
Lead	0.34 - 0.52	8.9 - 162	8/8	8/0	MTCA Method A	250	1,000.0ª
Manganese	0.12 - 0.18	333 - 410	8/8	8/0	MTCA Method B	11,200 ^b	490,000°
Mercury	0.05 - 0.06	0.05 - 0.43	3 / 8	8/0	MTCA Method A	1.0	1.0
Nickel	0.50 - 0.76	11.7 - 23.3	8/8	8/0	MTCA Method B	1,600 ^b	70,000€
Selenium	1.1 - 2.7	1.5 - 1.9	2 / 8	8/0	MTCA Method B	400b	17,500°
Silver	0.28 - 0.42	0.70 - 0.86	8/8	8/0	MTCA Method B	400p	17,500°
Thallium	0.65 - 0.88	0.72 - 1.4	8/8	8/0	MTCA Method B	5.6 ^b	245°
Vanadium	0.28 - 0.42	33.7 - 47.7	8/8	8/0	MTCA Method B	260 ^b	24,500°
Zinc	0.48 - 0.73	53.1 - 90.3	8/8	8/0	MTCA Method B	24,000°	1.050.000
Key at end of table.							

		Tab	Table 3-7 (CONTINUED)	TINUED)			-
	ā.	UBLIC WOR	KS DEPAR	PUBLIC WORKS DEPARTMENT PROPERTY	PERTY		
	SUBSURFA	ACE SOIL SA	MPLE SCI TCHEE, W	OIL SAMPLE SCREENING LEV WENATCHEE, WASHINGTON	SUBSURFACE SOIL SAMPLE SCREENING LEVEL SUMMAKY WENSURFACE, WASHINGTON	_	
	Range of	Range of	ì	Frequency of		Residential	Industrial
	Detection	Detected	Frequency of	Frequency of Exceedence of	Screening Level	Cleanup	Cleanup
Analyte	Limits	Concentrations*	Detection	Detection Screening Level	Source	Standards	Standards
Diovine/Furanc (no/kg)							
Allowing A care and a			3/1	MA	NA	Ϋ́N	ΑΝ
1,2,3,4,6,7,8-HpCDD	0.32 - 0.51	1.014 - 5.513	C / +	CN1	* 7.1		414
1 2 3 4 6 7.8-HpCDF	0.09 - 2.4	0.627 - 2.034	4/5	NA	NA	ΑN	NA
1.23.478 HVCDD	0.14-12		1/5	NA	NA	NA	NA
1,2,3,4,7,8-11XCDF	0.09 - 0.64	0.09 - 0.64 0.997 - 13.630	4/5	NA	NA	NA	NA
1.23678-HxCDF	0.07-1.1	0.902	1/5	NA	NA	NA	NA
7 3 4 7 8-PeCDF	0.08 - 4.8	0.359	1/5	NA	NA	NA	NA
OCDD	37-159	1.29	3/5	NA	NA	ΝΆ	NA
OCDE	0.16 - 12.0	.i	4/5	NA	NA	NA	NA
igo		in detection	ore concidered	in a detaction limits are considered estimated disantities			

Detected concentrations less than the associated detection limits are considered estimated quantities

^a WDOE Method A cleanup level.

b WDOE Method B cleanup level.

wDOE Method C cleanup level.

^d EPA, Region 9, PRG.

Key:

= United States Environmental Protection Agency. EPA

= Micrograms per kilogram. µg/kg

Milligrams per kilogram.Model Toxics Control Act. mg/kg

= Nanograms per kilogram. = Not analyzed. MTCA

= Polychlorinated biphenyls. ng/kg PCBs

= Semivolatile organic compounds. = Preliminary remediation goal. SVOCs PRG

= Volatile organic compounds. = Washington Department of Ecology. VOCs WDOE

TABLE 3-8

PUBLIC WORKS DEPARTMENT PROPERTY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY WENATCHEE, WASHINGTON

	Groundwate						
LOCATION ID	Cleanup	LF04GW24					
DEPTH	Standards	24 ft bgs	24 ft bgs				
VOCs(µg/L)							
2-Butanone	4,800 ^b	· 3 J	10 U				
Acetone	800 _p	18	10 U				
Benzene	5ª	1 J	10 U				
Methylene Chloride	5 ª	<u>23</u>	10 U				
Toluene	40ª	2 J	10 U				
Pesticides/PCBs(µg/L)						
4,4'-DDD	0.365 ^b	0.040 J	0.11 U				
4,4'-DDE	0.257 ^b	0.036 J	0.11 U				
Aroclor1260	0.1ª	1.0 U	<u>0.37</u> J				
Inorganics(µg/L)							
Arsenic	5ª	28.4	<u>18.3</u>				
Barium	1,120 ^b	<u>1,390</u> J	<u>1,930</u> J				
Beryllium	0.0203 ^b	<u>2.8</u> J	<u>2.8</u> J				
Cadmium	5ª	2.1 J	2.0 J				
Chromium	50ª	<u>762</u>	234				
Cobalt	2,200°	83.7	90.0				
Copper	592 ^b	324	238				
Lead	5ª	<u>86.3</u> J	<u>45.1</u> J				
Manganese	2,240 ^b	<u>5,190</u> J	<u>6,240</u> J				
Mercury	2ª	0.24	0.16				
Nickel	320 ^b	<u>565</u>	283				
Selenium	80 ^b	16.6 J	7.5 J				
Silver	80 ^b	4.6 J	3.3 J				
Vanadium	112 ^b	222	<u>155</u>				
Zinc	4,800 ^b	1,160 J	333 J				
Dioxins/Furans(pg/L)							
1,2,3,4,6,7,8-HpCDF	-	4.542 J	2.912 U				
OCDF	-	16.634	3.355 U				
Total Toxicity Equivalen	0.583 ^b	0.0062	0.000				

Key at end of table.

- WDOE Method A cleanup level.
- ^b WDOE Method B cleanup level.

Bold type indicates concentrations above sample quantitation limits or detection limits.

Underline indicates concentrations above one or more comparison standards.

Key:

EPA, Region 9, PRG (Tap Water). CLP

Below ground surface. bgs

Contract Laboratory Program. CLP

United States Environmental Protection Agency. EPA

Feet. ft

Identification. ID

The analyte was positively identified. The associated numerical value is an estimate.

Not analyzed. NA

Picograms per liter. pg/L

Polychlorinated biphenyls. **PCBs**

Preliminary remediation goal. PRG

SVOCs Semivolatile organic compounds.

Micrograms per liter. μg/L

Not detected.

VOCs Volatile organic compounds.

WDOE Washington Department of Ecology.

Table 3-9

PUBLIC WORKS DEPARTMENT PROPERTY GROUNDWATER SAMPLE SCREENING LEVEL SUMMARY WENATCHEE, WASHINGTON

	Range of	Range of		Frequency of		Groundwater
	Detection	Detected	Frequency of	Exceedence of	Screening Level	Cleanup
Analyte	Limits	Concentrations	Detection	Screening Level	Source	Standards
VOCs (µg/L)						
2-Butanone	10 - 100	3	1/2	0/2	MTCA Method B	4,800 ^b
Acetone	10 - 100	18	1/2	0/2	MTCA Method B	800 ^b
Benzene	10 - 100	1	1/2	0/2	MTCA Method A	5ª
Methylene Chloride	10 - 100	- 23	1/2	1/2	MTCA Method A	5ª
Toluene	10 - 100	2	1/2	0/2	MTCA Method A	40ª
Pesticides/PCBs (µ	g/L)					
4,4'-DDD	0.098 - 0.11	0.040	1/2	0/2	MTCA Method B	0.365 ^b
4,4'-DDE	0.098 - 0.11	0.036	1/2	0/2	MTCA Method B	0.257 ^b
Aroclor1260	0.98 - 1.1	0.37	1/2	1/2	MTCA Method A	0.1ª
Inorganics (µg/L)						0.1
Arsenic	3	18.3 - 28.4	2/2	2/2	MTCA Method A	5ª
Barium	0.7	1390 - 1930	2/2	2/2	MTCA Method B	1,120 ^b
Beryllium	0.4	2.8	2/2	2/2	MTCA Method B	0.0203 ^b
Cadmium	12.6	2.0 - 2.1	2/2	0/2	MTCA Method A	5°
Chromium	1	234 - 762	2/2	2/2	MTCA Method A	50ª
Cobalt	2.2	83.7 - 90.0	2/2	0/2	EPA Region 9 PRG	2,200°
Copper	2.5	238 - 324	2/2	0/2	MTCA Method B	592 ^b
Lead	1.7	45.1 - 86.3	2/2	2/2	MTCA Method A	5ª
Manganese	0.6	5190 - 6240	2/2	2/2	MTCA Method B	2,240 ^b
Mercury	0.1	0.16 - 0.24	2/2	0/2	MTCA Method A	2ª
Nickel	2.5	283 - 565	2./2	1/2	MTCA Method B	320 ^b
Selenium	2.3	7.5 - 16.6	2/2	0/2	MTCA Method B	80 ^b
Silver	1.4	3.3 - 4.6	2/2	0/2	MTCA Method B	80 ^b
Vanadium	1.4	155 - 222	2/2	2/2	MTCA Method B	112 ^b
Zinc	2.4	333 - 1160	2/2	0/2	MTCA Method B	4,800 ^b
Dioxins/Furans (pg/L)						
1,2,3,4,6,7,8-HpCDF	1.7 - 8.4	4.542	1/2	NA	, NA	NA
OCDF * Detected concentrations I	3.4 - 12	16.634	1/2	NA	NA	NA

^{*} Detected concentrations less than the associated detection limits are considered estimated quantities

Key:

EPA = United States Environmental Protection Agency.

MTCA = Model Toxics Control Act.

 μ g/L = Micrograms per liter.

pg/L = Picograms per liter.

PCBs = Polychlorinated biphenyls.

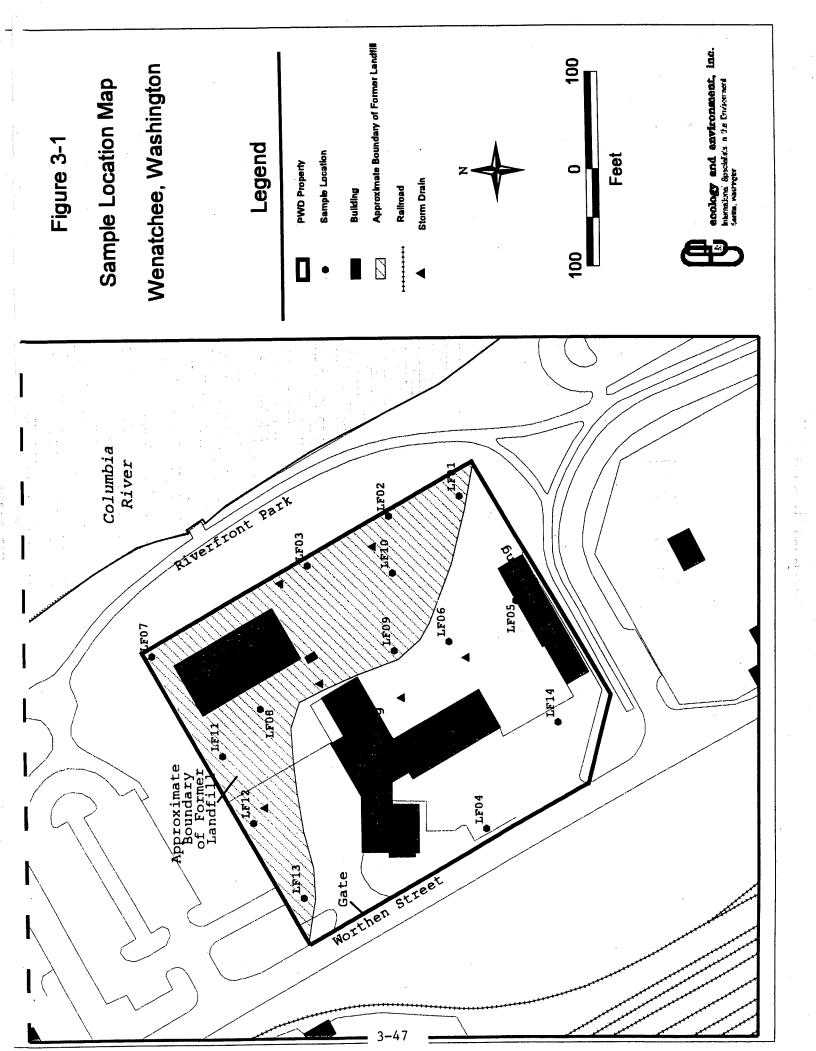
PRG = Preliminary remediation goal.

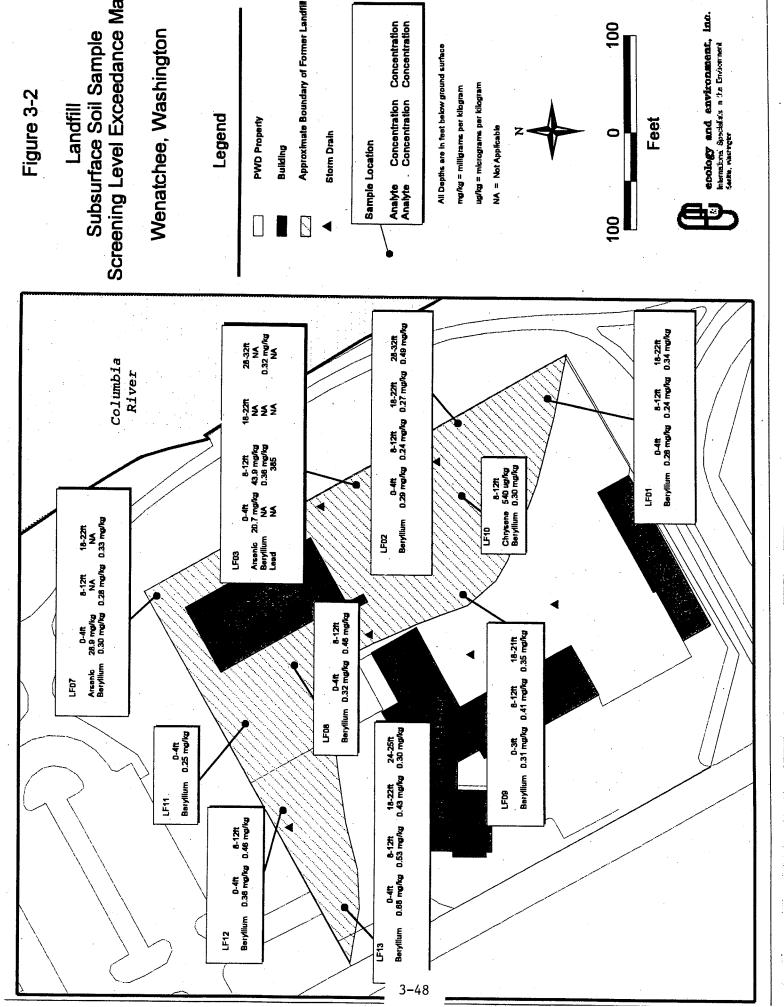
VOCs = Volatile organic compounds.

WDOE Method A cleanup level.

b WDOE Method B cleanup level.

^c EPA, Region 9, PRG.





Screening Level Exceedance Map Subsurface Soil Sample

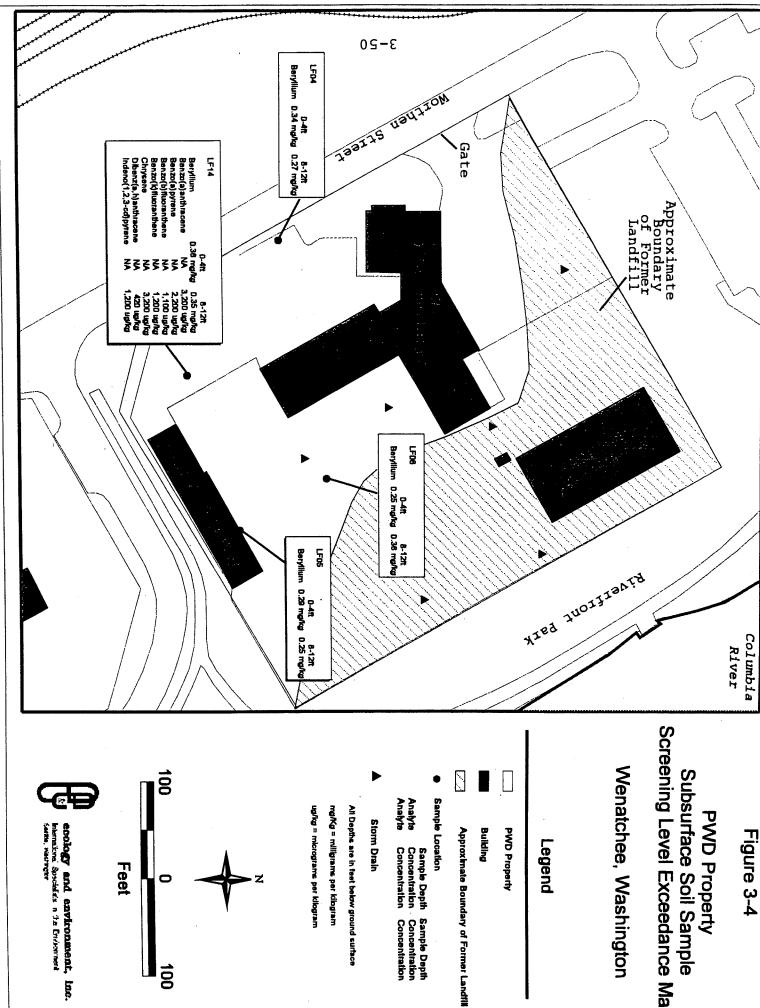
Wenatchee, Washington

Concentration Concentration

All Depths are in feet below ground surface



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Screening Level Exceedance Map Subsurface Soil Sample

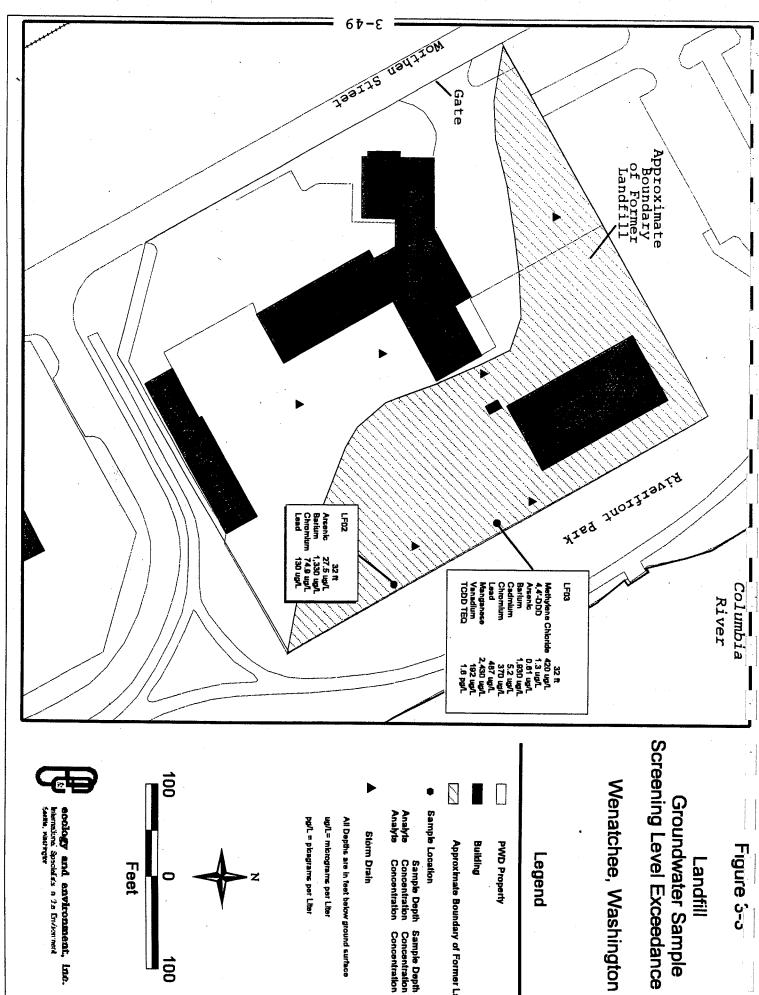


Figure 5-5

Screening Level Exceedance Map Groundwater Sample Landfill

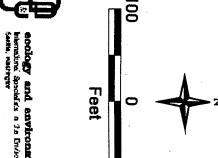
Approximate Boundary of Former Landfill

Sample Depth Concentration Concentration Sample Depth
Concentration
Concentration

Storm Drain

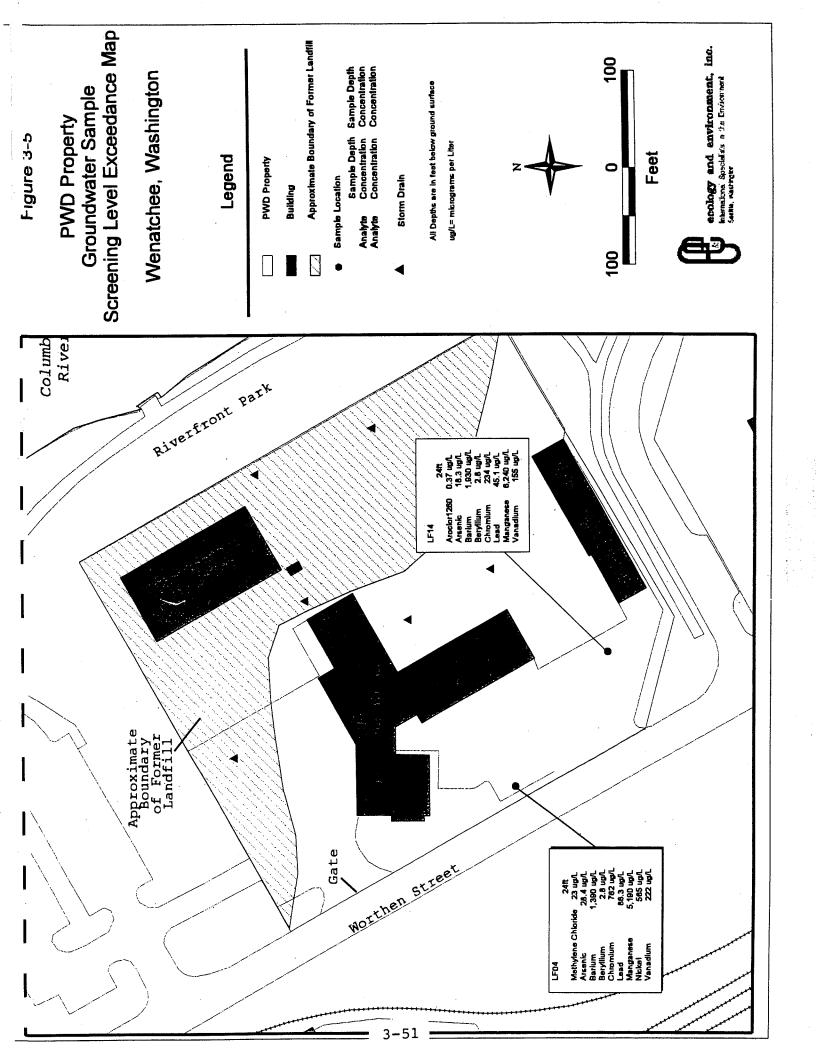
All Depths are in feet below ground surface

ug/L= micrograms per Liter



100

ecology and environment, inc. international Specialists in the Environment Section, restrictor



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4. CLEANUP OPTIONS AND COSTS

The City is interested in potentially selling the PWD property to developers for potential use as a business park or hotel location. The following information is presented based on current site conditions. As changes occur at the site, the information presented in this report should be modified as necessary to support appropriate exposure scenarios.

For the purposes of this report, conclusions have been drawn with respect to potential source areas under the assumption that the property will be developed as a business park or hotel park, therefore applicable MTCA and EPA Region 9 PRG industrial standards were considered with respect to soil contamination. Washington State natural background metals concentrations were also used to evaluate site conditions.

The cost estimate below is based on the recommended action and assumptions outlined in the following sections and were primarily obtained from Environmental Remediation Cost Data - Unit Price, 6th Annual Edition, R. S. Means and Company and Talisman Partners, Ltd. (Means 2000a), and Site Work and Landscape Cost Data, 19th Annual Edition, R. S. Means and Company (Means 2000b). The quantities assumed below are conservative; costs may be less than estimated based on the actual conditions or if certain recommended activities are determined unnecessary. Recommended options at the PWD property include: 1) continued use of the property and buildings as they currently exist; and 2) soil excavation and subsequent backfill in the landfill area. The PWD property can be operated as a business park or hotel with no cleanup actions performed. Human contact with the subsurface soils is prevented by the pavement covering the property. WDOE MTCA industrial standards apply to this use; none of the industrial standards were exceeded in samples collected during the TBA. A discussion of the current subsurface structural integrity at the site relating to future redevelopment is beyond the scope of this TBA, however information relating to excavation and backfilling is discussed below. This no-action alternative will be retained for further evaluation to serve as a baseline against which the cleanup alternative can be compared. Excavation and/or backfilling should be coordinated during the same field effort to reduce mobilization and demobilization charges and to expedite the work. Appendix E provides a detailed cost summary for the proposed cleanup option.

4.1 LANDFILL EXCAVATION AND BACKFILL

The excavation of soil down to native material in the landfill (estimated to be 30 feet bgs throughout the landfill for this TBA) is recommended if future development occurs on that portion of the PWD property. This recommendation is made because building or parking lot construction would likely require the use of structural fill. Based on the contaminants and concentrations found during the TBA, it is believed that the excavated landfill material could be disposed of as non-hazardous waste. In order for the materials to be classified as a hazardous waste, they must meet the criteria outlined in 40 Code of Federal Regulations (CFR) Part 261. A solid waste exhibits the characteristic of toxicity if, using the toxicity characteristic leaching procedure (TCLP; Test Method 1311 in Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, EPA Publication SW-846), the representative sample of the waste contains any of the contaminants listed in Table 1 of 40 CFR Part 261.24 at a concentration equal to or greater than the respective value given in that table. Although the TCLP was not performed on any of the samples, a correlation can be made between the expected TCLP concentrations and the actual total contaminant concentration detected by dividing the total concentration by 20 to obtain the approximate TCLP concentration. Table 1 in 40 CFR Part 261.24 lists maximum allowable TCLP concentrations; none of the TBA samples had analytes that appeared to approximate TCLP concentration limits. Due to the potential for unknown materials to be contained in the excavated soil/landfill material, treatment and on-site reuse of the excavated material is not recommended. The START estimates the cost of disposal of non-hazardous waste to be \$50 per ton. Detailed cost information per unit of work is provided in Appendix E. Approximately 70 percent of the estimated \$7,412,848 for this cleanup alternative are allocated to disposal of the excavated materials; costs for this portion of the cleanup may be significantly lower if disposal through the local municipal landfill is coordinated with other City departments. For the purposes of this option, all of the landfill material is excavated to the boundaries of the PWD property and is backfilled with structural fill material (e.g., crushed rock) because most construction activities would likely require the use of structural fill. Any worker exposures to contaminated soils during excavation or backfilling should not result in adverse health effects because contaminant levels were less than Method C (industrial) cleanup levels.

5. CONCLUSIONS AND RECOMMENDATIONS

Thirty-three subsurface soil samples were collected from the Historical Landfill area and eight subsurface soil samples were collected from the non-Landfill area. Screening levels were exceeded in 26 Landfill area samples and at all eight non-Landfill locations. Each of the subsurface soil sample screening level exceedances were greater than the applicable residential standards but were less than the applicable industrial standards. Because the site is likely to be developed for commercial purposes in the future and because the contamination is present below the asphalt paving, additional evaluation is not warranted at this time. However, if future development results in transport of subsurface contamination to the surface and if the land use changes, additional evaluation should be performed to ensure that contamination does not pose a health risk under new land uses.

Three groundwater samples were collected from the Historical Landfill area and two groundwater samples were collected from the non-Landfill area. Screening levels were exceeded at all five groundwater sample locations. Each of the groundwater sample screening level exceedances were greater than MTCA Method A or B residential levels. These exceedances may not be significant if groundwater does not represent an exposure medium for current or future receptors. Groundwater underlying the site is not currently used as a domestic water supply and does not appear to be hydrologically connected to an aquifer used for drinking water. Therefore, additional consideration of groundwater contamination may not be required at this time.

The City is interested in potentially selling the current PWD property to outside interests for development into business park or hotel. Several analytes were detected at concentrations greater than WDOE MTCA or EPA Region 9 PRG levels at various locations and depths throughout the PWD property, however, due to pavement covering the Historical Landfill area preventing a pathway for human exposure, no further action at the property is recommended for continued use of the facility in its current state. If improvements are planned for the Historical Landfill area of the PWD property, excavation and disposal of the landfill materials as non-hazardous materials is recommended, followed by the backfilling with structural fill material.

As listed in Section 4 and Appendix E, options for future use of the property vary from \$0 to over \$7,000,000, with several cost and cleanup options available between these amounts. The goal of

each option is to minimize human exposure to potentially contaminated soils while maximizing the use of the PWD property as a commercial development.

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APPENDIX A

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial #: Disposable Camera Lens Type: 35 mm

TDD #: 98-11-0007 Site Name: Wenatchee Landfill Brownfields

Photo Number	Date 🥖	Time	Taken By	Description
1-1	6/29/99	0925	≕SG	Sample LF01SB04 core; facing South
1-2	6/29/99	0930 🕾	atir SG ; ick	Sample LF01SB04 (sand and gravel); facing South
1-3	6/29/99	0955	∜⊹∈ SG ∴	Sample LF01SB12 core (brick and wood material); facing South
1-4	6/29/99	1000 //	_≠ SG : ⊅	Sample LF01SB12; facing South
1-5	6/29/99	⊴1030 ⋅⋅⋅	∉t SG ⊹	Sample LF01SB22 core; facing South
1-6	6/29/99	1030	:::: SG :,.:	Sample location LF01; facing West
1-7	6/29/99	1110	⊹∂ SG ⊞	Sample location LF02; facing West-Southwest
1-8	6/29/99	1115:	⊹ SG ⇔	Sample LF02SB04 core; facing East
1-9	6/29/99	.1120	∜⊹SG ∵	Sample LF02SB04; facing West
1-10	6/29/99	1140	∵:SG·÷÷	Sample LF02SB12 core; facing East
1-11	6/29/99	1145	::SG ::	Sample LF02SB12; facing West
1-12	6/29/99	∄1210	⊹ SG ∪	Sample LF02SB22 core; facing East
1-13	6/29/99	1215	SG	Sample LF02SB22; facing West
1-14	6/29/99	1425	⊬ SG ∴	Sample LF02SB32 core; facing Southeast
1-15	6/29/99	1430	∉SG ∵	Sample LF02SB32; facing East
1-16	6/30/99	0845	:SG	Sample location LF03; facing West
1-17	6/30/99	⊴≟0850 : :	-⊭:\SG : <u> </u> :1	Sample LF03SB04 core; facing Southeast
1-18	6/30/99	0858	∵SG :	Sample LF03SB04; facing South
1-19	6/30/99	0915	⊭⊹SG /⊴	Sample LF03SB12 core; facing South
1-20	6/30/99	0933∜	∉ SG ∴	Sample location LF04SB in the non-landfill area; facing South
1-21	6/30/99	-0950	,⊹SG ≒	Sample LF04SB04 core; facing North
1-22	6/30/99	0958	∷SG ⊅	Sample LF04SB04; facing North
1-23	6/30/99	1145	,⊹⊹ŞG ∴	Sample LF04SB12 core; facing North
1-24	6/30/99	1150	⊹⊹SG	Sample LF04SB12; facing North
1-25	6/30/99	1735	∴SG ∵	Sample LF03SB22 core; facing South
1-26	6/30/99	1805	g SG L	Sample LF03SB32 core; facing South
1-27	6/30/99	1810	SG	Sample LF03SB32 core; facing South
2-1	7/1/99	0950	∵ CG	Sample LF03SB22 core; facing South
2-2	7/1/99	1020	CG	Sample LF03SB22; facing South

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial #: Disposable Camera

Lens Type: 35 mm

Site Name: Wenatchee Landfill Brownfields

Photo Number	Date:	Time	Taken By	Description	
2-3	7/1/99	1047	.∵CG ⊘	Sample location LF05 area; facing Southeast	
2-4	7/1/99	11 05 5	-⊬ CG +∂	Sample:LF05SB04; facing South	
2,5	-,7/1/99	7 1125 :	· · CG 🖂	Sample LF05SB12 core; facing South	
2-6	7/1/99	1245	∴(CG	Sample LF06SB04; facing North	
2-7	7/1/99	1255 ;	⊭ CG ≎:	Sample location LF06; facing West	
2-8	7/1/99	1410	::: CG ::::	Sample:location: LF07; facing Northeast	A Det 1
2-9	7/1/99	1411	:CG	Sample location LF07; facing Northwest	
2-10	7/1/99	- 1430	CG :	Sample LF07SB04; facing South	
2-11	7/1/99	1440	iii CG $^{\circ}$	Sample LF07SB12 core; facing South	
2-12	7/1/99	1455	\mathbf{CG}	Sample LF07SB12; facing South	
2-13	7/1/99	1520	··CG-	Sample LF07SB22; facing South	
2-14	7/1/99	1613	- CG	Sample location LF08; facing Northeast	
2-15	7/1/99	1614	CG	Sample location LF08; facing Northwest	
2-16	7/8/99	1635	CG.	Sample LF08SB04; facing North	
3-1	7/6/99	1630.	:::SL:502	Sample LF14SS00; facing West	Manual and an artifaction of the second of t
3-2	7/6/99	1730- _i :	- SL,	Sample LF14SB08; facing West	
3-3	7/7/99	:::1020 :	⇒SL,⊹	Sample location LF14; facing Northeast	J. Ville B.
3-4	7/7/99	1440 ::		Sample LF11SS00; facing North	The Control of the Co
3-5	7/799	1500	. SL	Sample LF11SB08; facing North	
-,,3-6	7/7/99	1550	: SL:	Sample LF11SB22; facing North	
3-7	7/8//99	1615	SL	Sample location LF11; facing Southwest	
3-8	7/8/99	0915 :	, SL	Sample LF12SS04; facing East	
3-9	7/8/99	0950	SL	Sample LF12SS22; facing East	
3-10	7/8/99	1010.⊯	∍r(SL : ∷	Sample LE12SB12; facing East	
3-11	7/8/99	-1020	/ SL	Sample LF12SB29; facing East	
3-12	7/8/99	1400 :-	:::SL::::	Sample LF13SS03; facing East	The state of the s
3-13	7/8/99	.i.1420 🗄	:-SL	Sample LF13SB12; facing East	Andrews and the second
4-1	7/8/99	1020	⊭⊹SL:	Sample LF13SB22; facing East	The second secon
4-2	7/9/99	0943	SL 1	Sample LF09SB04; facing North	

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial #: Disposable Camera Lens Type: 35 mm

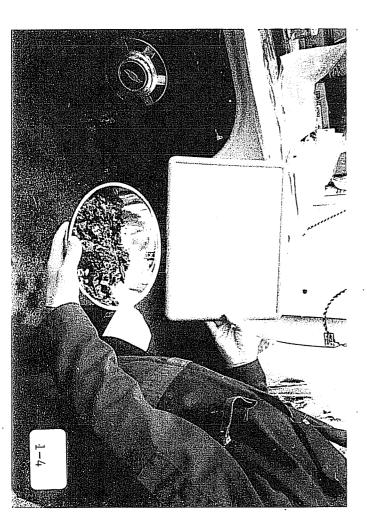
TDD #: 98-11-0007 Site Name: Wenatchee Landfill Brownfields

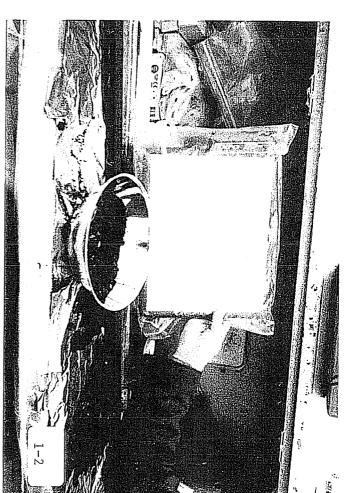
Photo Number	Date	Time	Taken By	Description
4-3	7/9/99	0950	SL	Sample LF13SB12; facing North
4-4	7/9/99	0957	∫ SL	Rinsate sample collection; facing South
4-5	7/9/99	1005	SL	Sample LF09SB04; facing West
4-6	7/9/99	1010	SL	Sample LF09SB22; facing West

Key:

Charlie Gregory Susan Gardner CG SG SL Susan Lipinski

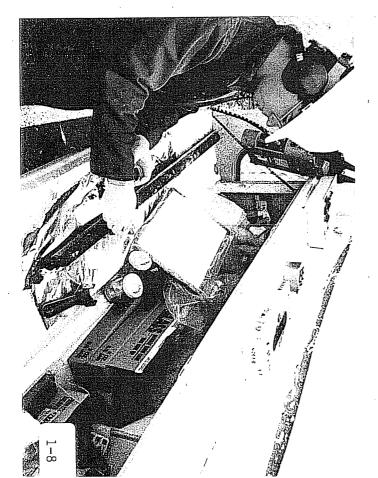


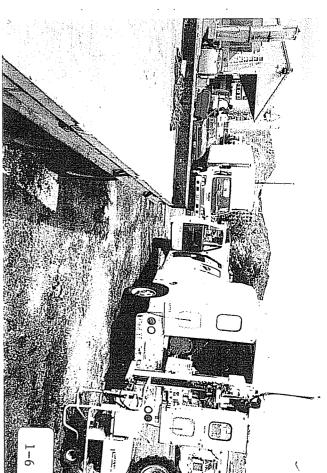






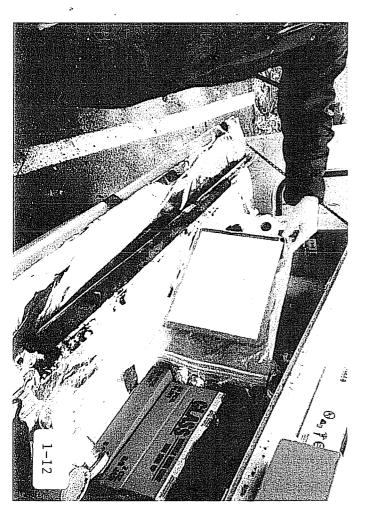




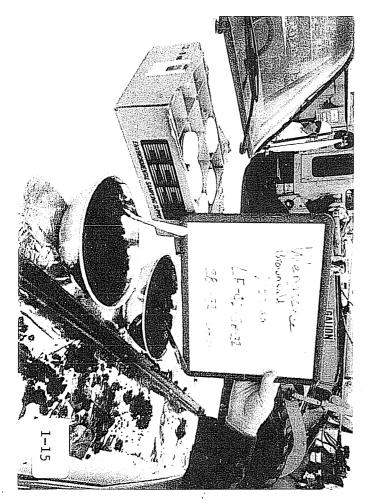


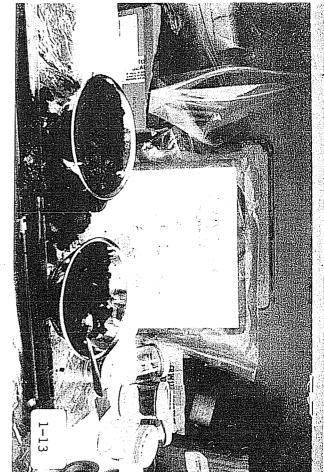


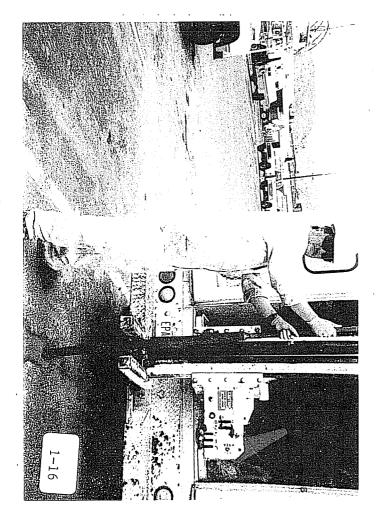


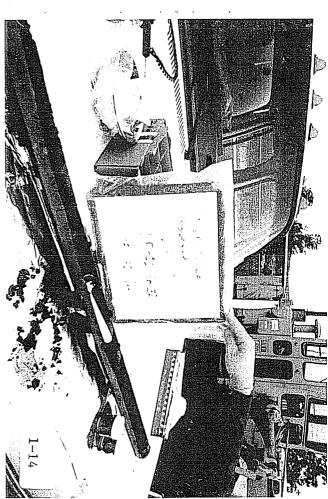


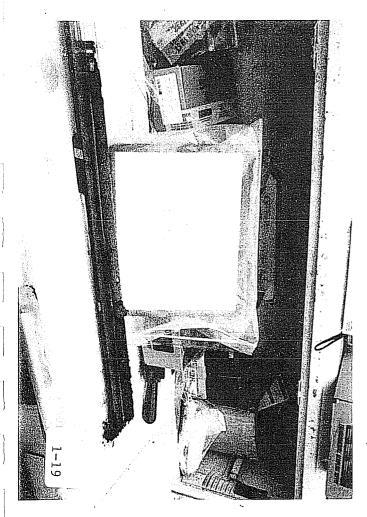




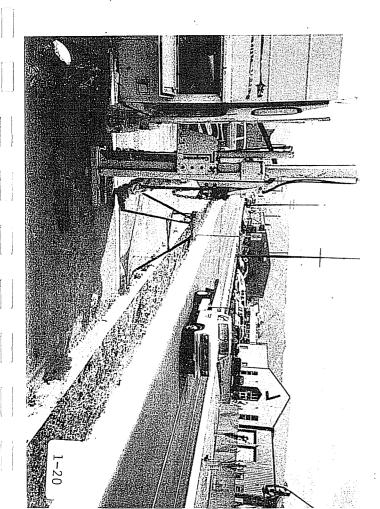


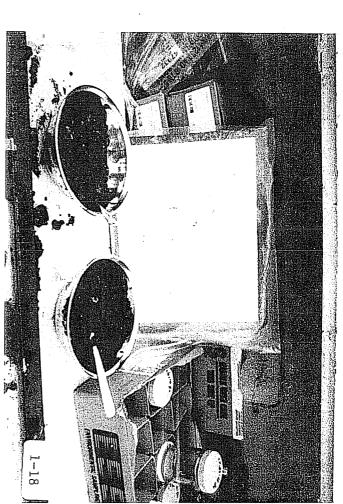


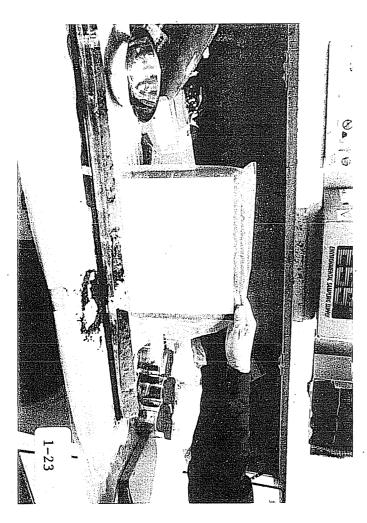


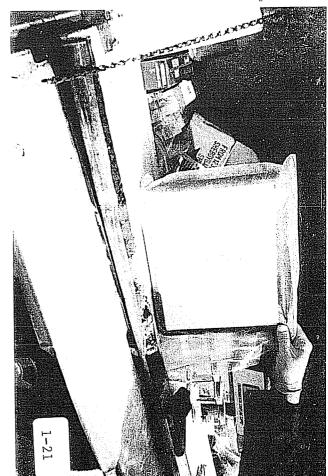




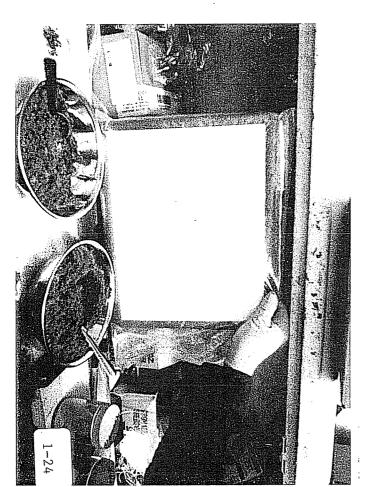


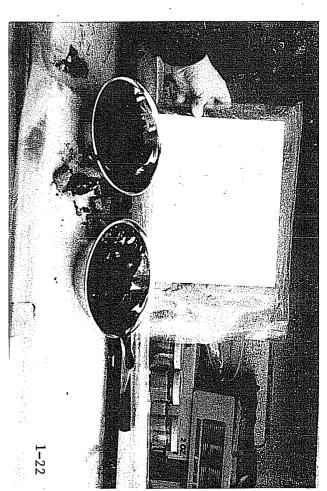


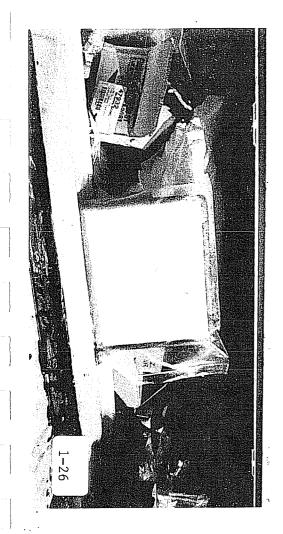




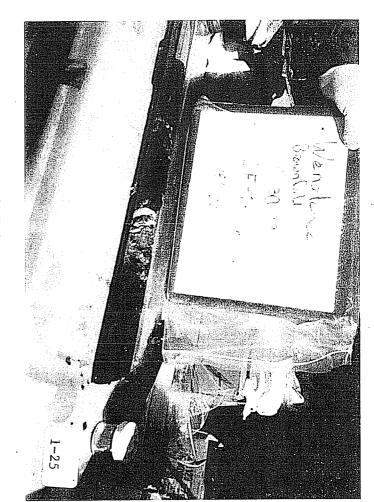


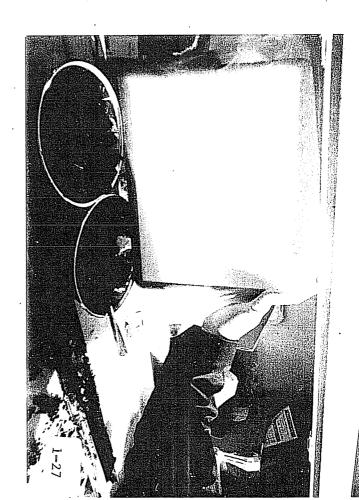


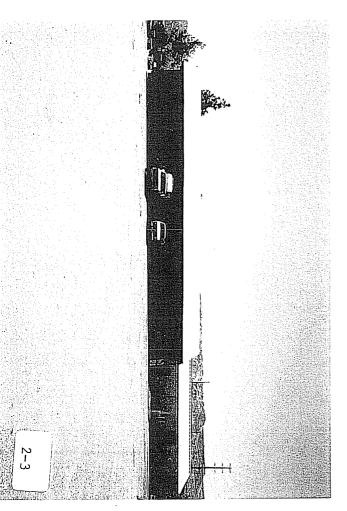


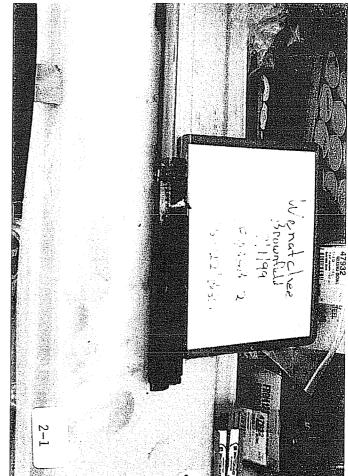


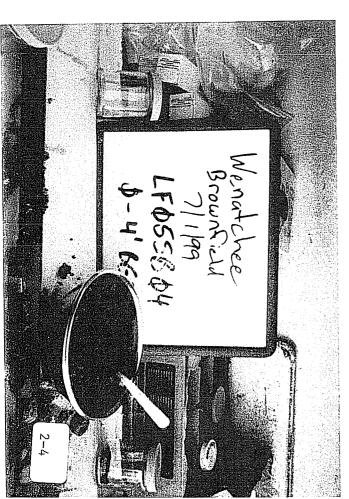


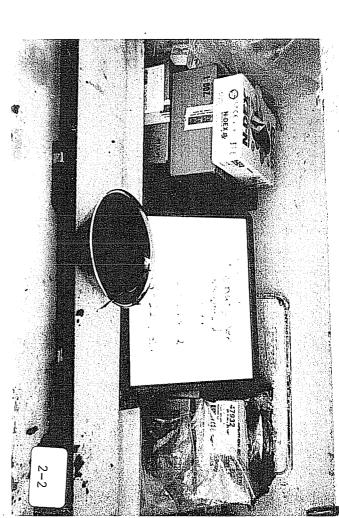


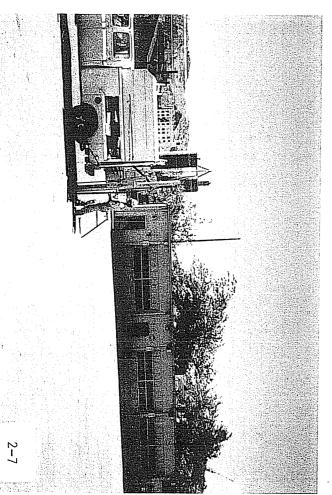


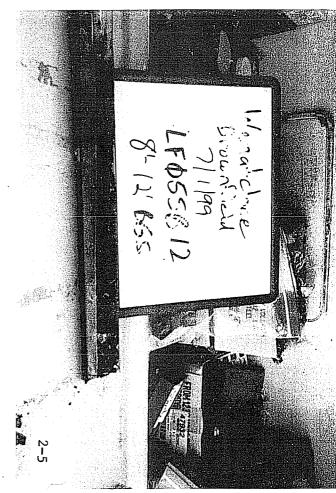


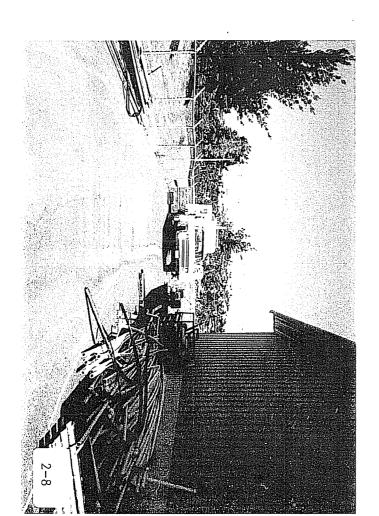


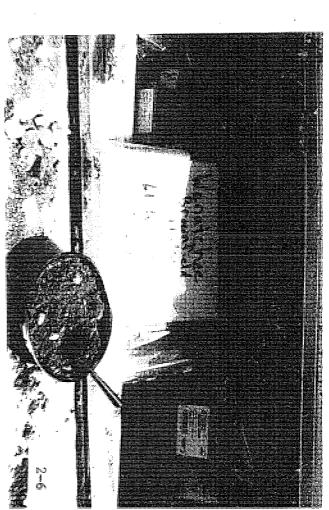


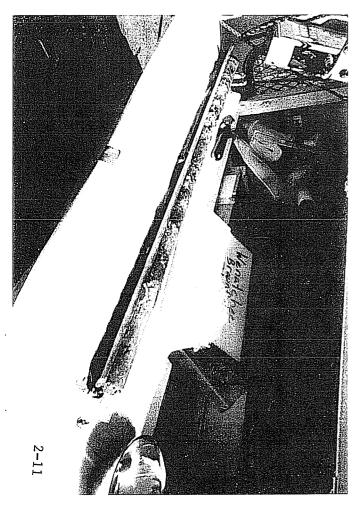


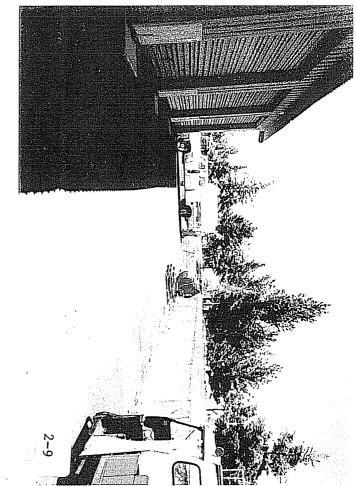


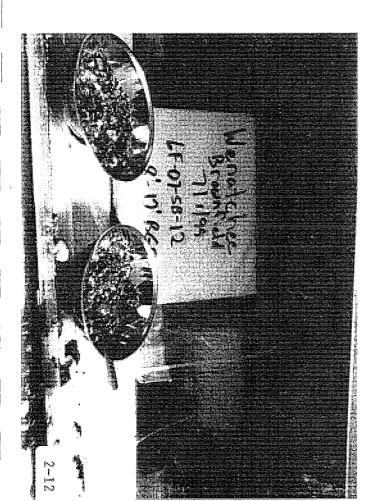


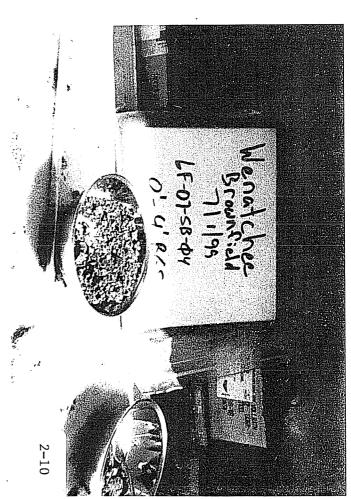


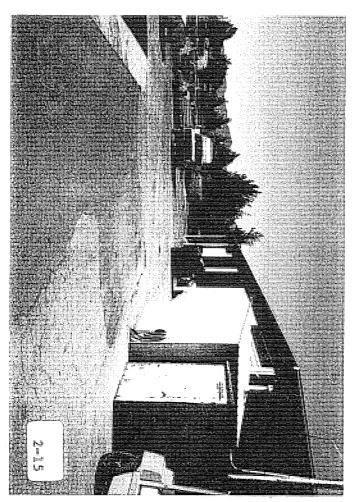


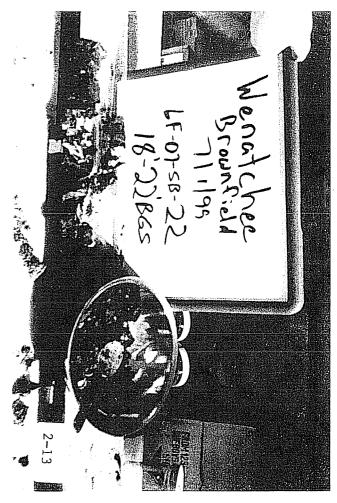


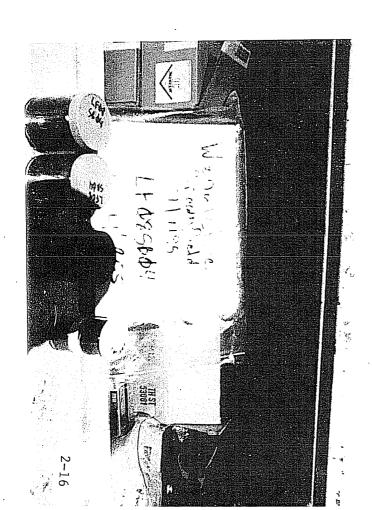


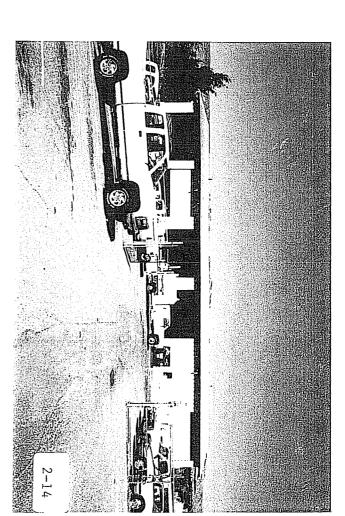


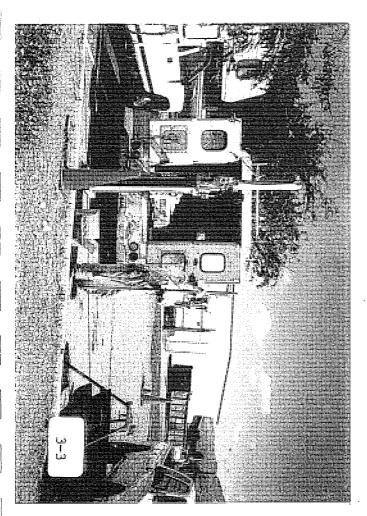


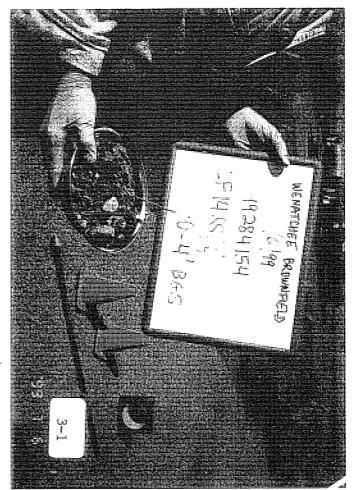


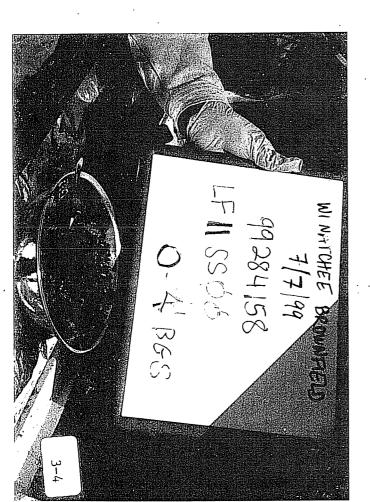


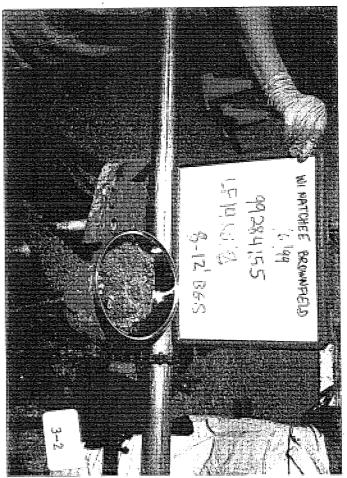


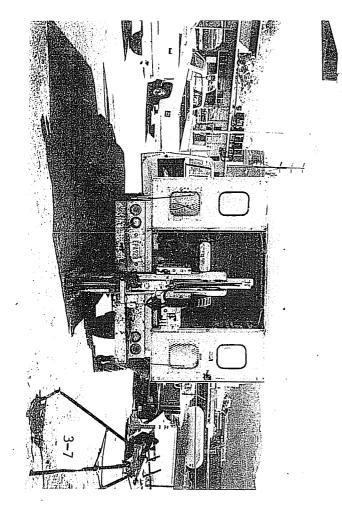


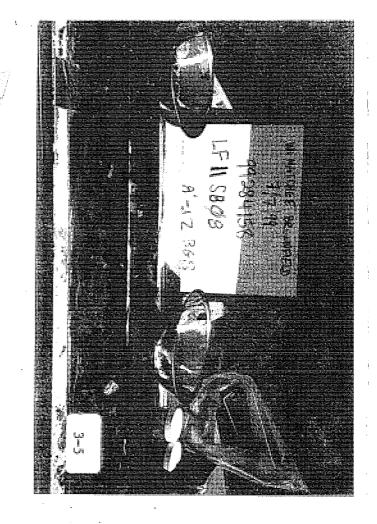


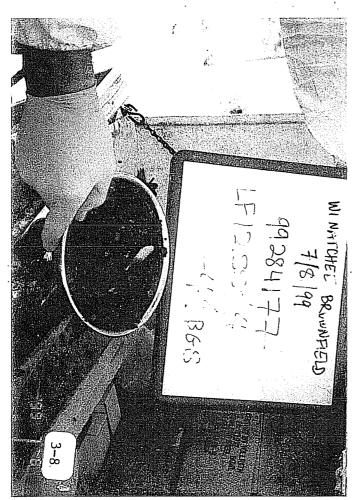


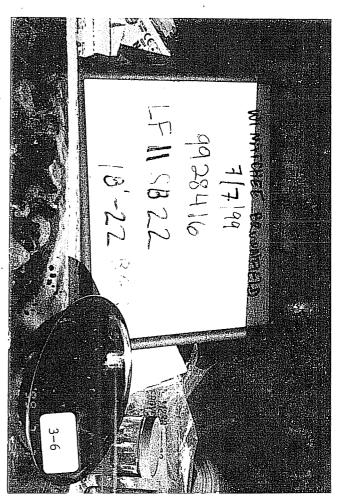




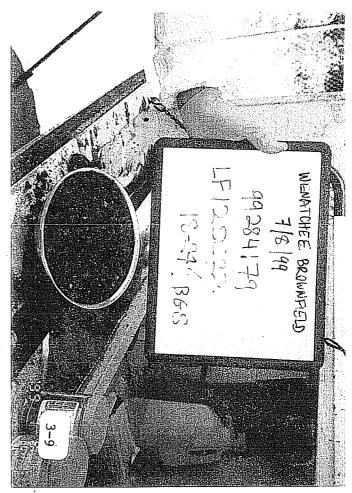




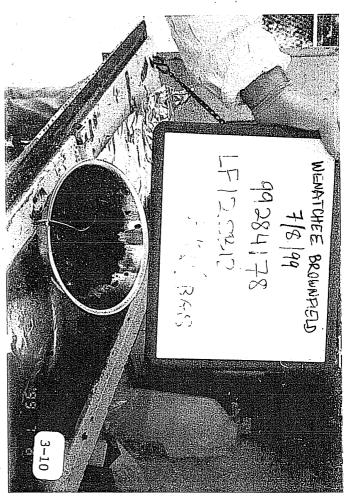


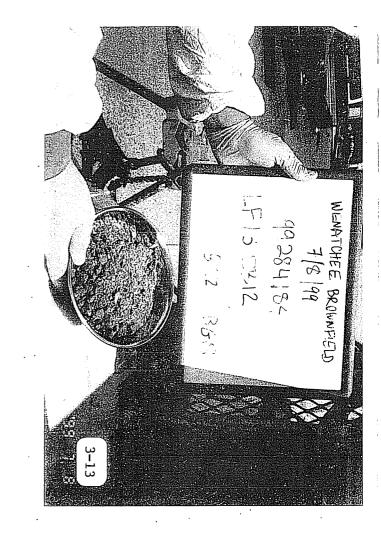




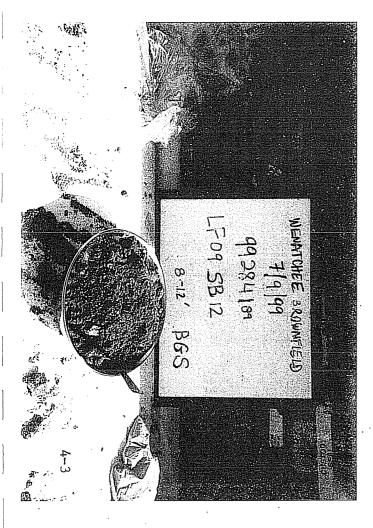


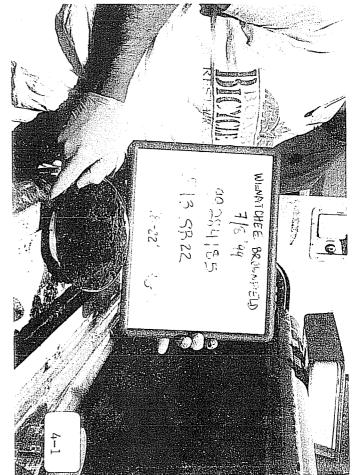


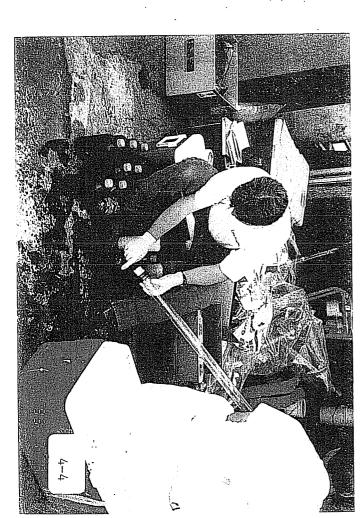




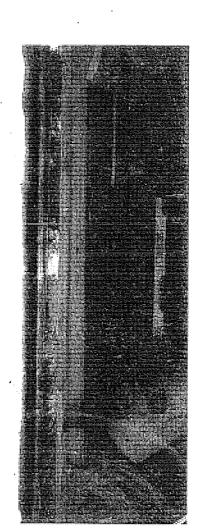
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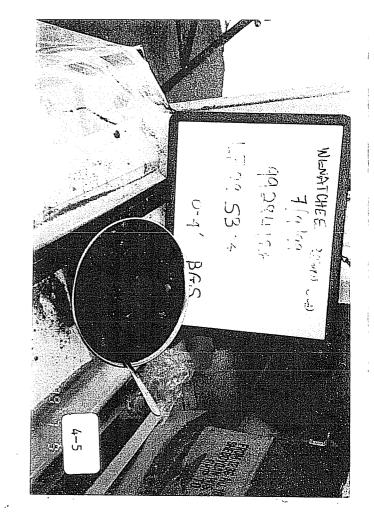


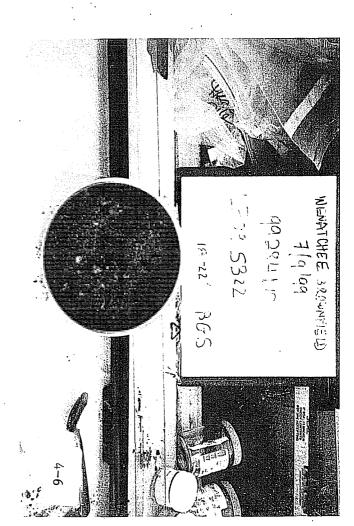












SAMPLE ID	MATRIX	INTERNAL STANDARD	%R	QC LIMITS
99274109	Water	¹³ C-1,2,3,4,7,8-HxCDF	17.24	28 - 136 %
99274109	Water	¹³ C-1,2,3,4,6,7,8-HpCDF	19.20	28 - 143 %
99274109	Water	¹³ C-1,2,3,4,7,8,9-HpCDF	20.22	26 - 138 %
99274110	Soil	¹³ C-OCDD	21.41	40 - 135 %
99274114	Water	¹³ C-2,3,7,8-TCDD	23.33	. 25 - 164 %
99274114	Water	¹³ C-1,2,3,7,8-PeCDD	15.23	25 - 181 %
99274114	Water	¹³ C-1,2,3,4,7,8-HxCDD	18.42	32 - 141 %
99274114	Water	¹³ C-1,2,3,6,7,8-HxCDD	20.63	28 - 130 %
99274114	Water	¹³ C-2,3,7,8-TCDF	17.46	24 - 169 %
99274114	Water	¹³ C-1,2,3,7,8-PeCDF	14.72	24 - 185 %
99274114	Water	¹³ C-2,3,4,7,8-PeCDF	13.15	21 - 178 %
99274114	Water	¹³ C-1,2,3,4,7,8-HxCDF	20.31	26 - 152 %
99274114	Water	¹³ C-1,2,3,7,8,9-HxCDF	20.51	26 - 123 %
99274114	Water	¹³ C-2,3,4,6,7,8-HxCDF	17.38	29 - 147 %
99274114	Water	¹³ C-1,2,3,4,7,8-HxCDF	16.55	28 - 136 %
99274114	Water	¹³ C-1,2,3,4,6,7,8-HpCDF	16.77	28 - 143 %
99274114	Water	¹³ C-1,2,3,4,7,8,9-HpCDF	20.50	26 - 138 %

TCDD = Tetrachlorodibenzodioxin.

PeCDD = Pentachlorodibenzodioxin.

HxCDD = Hexachlorodibenzodioxin.

HpCDD = Heptachlorodibenzodioxin.

OCDD = Octachlorodibenzodioxin.

TCDF = Tetrachlorodibenzofuran.

PeCDF = Pentachlorodibenzofuran.

HxCDF = Hexachlorodibenzofuran.

HpCDF = Heptachlorodibenzofuran.

Quantitation limits and positive results for associated analytes were flagged as estimated (UJ or J).

VI Surrogate Recoveries: Not Applicable.

Surrogates were not required for this method. Clean-up standard 37Cl-2,3,7,8-TCDD was added to all samples and QC samples. The clean-up standard recoveries were acceptable.

VII Duplicate Sample Analysis: Not Applicable.

Duplicate sample analyses were not performed and no action was taken on this basis.

BLANK ID	MATRIX	COMPOUND	CONC.	ASSOCIATED SAMPLES
DBLK3	Water	1,2,3,4,6,7,8-HpCDD	8.531 pg/L	***
DBLK3	Water	OCDD	105.765 pg/L	***

CONC. = Concentration.

 $\label{eq:hpcdd} HpCDD = Heptachlorodibenzodioxin.$

OCDD = Octachlorodibenzodioxin.

- * Samples 99274102 through 99274106.
- ** Samples 99274107, 99274108, 99274110, 99274111, 99274113, 99274115, and 99274116.
- *** Samples 99274109, 99274114, and 99274117.

Reported levels of the above compounds in the associated samples were qualified as non-detect (U), due to the concentration were below five times the concentration value in the blank. The TEF factor was also corrected by the reviewer because of blank contamination.

V Internal Standards: Satisfactory.

All internal standard (IS) ion abundance ratios were within method QC limits. All IS percent recovery (%R) values were within the QC limits, except:

SAMPLE ID	MATRIX	INTERNAL STANDARD	%R	QC LIMITS
99274102	Soil	¹³ C-1,2,3,4,6,7,8-HpCDD	30.09	40 - 135 %
99274102	Soil	¹³ C-OCDD	20.22	40 - 135 %
99274102	Soil	¹³ C-2,3,7,8-TCDF	38.96	40 - 135 %
99274102	Soil·	¹³ C-1,2,3,7,8-PeCDF	36.68	40 - 135 %
99274102	Soil	¹³ C-1,2,3,4,6,7,8-HpCDF	25.36	40 - 135 %
99274109	Water	¹³ C-2,3,7,8-TCDD	19.95	25 - 164 %
99274109	Water	¹³ C-1,2,3,7,8-PeCDD	16.96	25 - 181 %
99274109	Water	¹³ C-1,2,3,4,7,8-HxCDD	18.49	32 - 141 %
99274109	Water	¹³ C-1,2,3,6,7,8-HxCDD	21.14	28 - 130 %
99274109	Water	¹³ C-1,2,3,4,6,7,8-HpCDD	21.71	23 - 140 %
99274109	Water	¹³ C-OCDD	17.82	17 - 157 %
99274109	Water	¹³ C-2,3,7,8-TCDF	13.84	24 - 169 %
99274109	Water	¹³ C-1,2,3,7,8-PeCDF	17.21	24 - 185 %
99274109	Water	¹³ C-2,3,4,7,8-PeCDF	13.84	21 - 178 %
99274109	Water	¹³ C-1,2,3,4,7,8-HxCDF	19.95	26 - 152 %
99274109	Water	¹³ C-1,2,3,7,8,9-HxCDF	20.31	26 - 123 %
99274109	Water	¹³ C-2,3,4,6,7,8-HxCDF	20.88	29 - 147 %

II Instrument Performance: Acceptable.

A performance check solution was analyzed at the beginning of each 12-hour sample analysis period. The minimum resolving power of 10,000 was attained. The valley between 2,3,7,8-TCDD and the peaks representing all other TCDD isomers was ≤ 25 % in the window defining mix solution. All ion abundance and retention time criteria were met in all calibration standards.

III Calibration

A. Initial Calibration: Acceptable.

A 5-point initial calibration was performed with all Relative Standard Deviations (RSDs) less than 20 % for the unlabeled target analytes and less than 30 % for the labeled internal standards. All ion abundance ratios, signal-to-noise (s/n) ratios, and retention times were within method QC limits.

B. Continuing Calibration: Acceptable.

A continuing calibration was analyzed at the start of each 12-hour period. The % valley between 2,3,7,8-TCDD and the closest TCDF isomer was less than 25 %. The retention times for all of the furan and dioxin homologues were established and properly labeled from the first to the last eluters. All ion abundance and s/n ratios were within method QC limits. All % difference (%D) values were less than 30 % for the labeled internal standards and less than 20 % for the unlabeled target analytes, except for the following:

DATE	TIME	MATRIX	COMPOUND	%D	ASSOCIATED SAMPLES	
7/19/99	2212	Soil	¹³ C-OCDD (IS)	33.12	· *	
7/23/99	2000	Soil	2,3,7,8-TCDF	24.50	99274114	
7/30/99	2211	Soil	2,3,7,8-TCDF	21.50	99274110RE	

CONC. = Concentration.

OCDD = Octachlorodibenzodioxin.

TCDF = Tetrachlorodibenzofuran.

The quantitation limit for 2,3,7,8-TCDD in the samples 99274114 were qualified as estimated (UJ). No action was taken for the internal standard (IS) %D value outlier or for the 2,3,7,8-TCDF %D outlier in sample 99274110RE.

IV Blanks: Satisfactory.

The frequency of analysis of laboratory blanks was met. No target analytes were detected in any blanks, except for the following:

BLANK ID	MATRIX	COMPOUND.	CONC.	ASSOCIATED SAMPLES		
DBLK1	Soil	OCDD	1.461 ng/kg	*		
DBLK2	Soil	OCDD	1.550 ng/kg	**		

^{*} Samples 99274102 through 99274106.



ecology and environment, inc.

International Specialists in the Environment

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MEMORANDUM

DATE:

September 1, 1999

TO:

Mark Woodke, START-Project Manager, Seattle, WA

FROM:

David A. Ikeda, Chemist, E & E, Seattle, WA

THRU:

Leatta Dahlhoff, Chemist, E & E, Seattle, WAM W

SUBJ:

Organic Data Quality Assurance Review, Wenatchee Brownfields Site,

Wenatchee, Washington

REF:

TDD: 98-11-0007

PAN: CK-07-01-SI-DM

The data quality assurance review of three water samples and twelve soil samples collected from the Wenatchee Brownfields site located in Wenatchee, Washington, has been completed. Analysis for Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) following EPA Method 8290 for soil samples and EPA Method 1613B for water samples were performed by Southwest Laboratory of Oklahoma, Broken Arrow, Oklahoma.

The samples were numbered:

Soil:	99274102	99274103	99274104	99274105	99274106
	99274107	99274108	99274110	99274111	99274113

99274115 99274116

Water: 99274109 99274114 99274117

Data Qualifications:

I Holding Time: Acceptable.

The samples were maintained at 9°C, which is slightly higher than the required 4°C (± 2°C), however due to the stable nature of the analytes, no qualifications were applied to the samples by the reviewer. The samples were collected June 29 and 30, 1999, extracted by July 21, 1999, and analyzed by July 29, 1999, therefore meeting QC criteria of less than 30 days for soil samples and 7 days for water samples between collection and extraction and less than 45 days for soil samples and 40 days for water samples between extraction and analysis.

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Trip Blanks

Trip blanks met the frequency criteria. The following contaminants were detected in the trip blanks: methylene chloride, acetone, chloroform, bromodichloromethane, and dibromochloromethane. Sample results less than 10 times the associated trip blank contaminant concentrations were qualified as not detected (U).

Rinsate Blanks

Rinsate blanks met the frequency criteria. The following contaminants were detected in the rinsate blanks:

Inorganics:

antimony, cadmium, chromium, lead, manganese, nickel, thallium, and

zinc; and

VOCs:

acetone.

In order to attain the level of contamination detected in the rinsate blanks, gross contamination would need to be present on the field or laboratory equipment. Several of the contaminants detected in the rinsates also were present in the laboratory blanks and may be associated with laboratory contamination. Additionally, the rinsate water, obtained from the Wenatchee PWD, may have been contaminated. Sample results for the above-listed analytes should be viewed with caution.

Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. Data produced for this site followed applicable field sampling techniques and specific analytical methodology. The DQO for comparability of 90 percent was met.

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL PARAMETERS

The laboratory data also were reviewed for holding times, laboratory blank samples, trip blank samples, and rinsate blank samples. These QA/QC parameters are summarized below. In general, the laboratory and field QA/QC parameters were considered acceptable.

Holding Times

Approximately 6.3 percent of the data were qualified as estimated quantities (J or UJ) based on holding time QC outliers.

Laboratory Blanks

All laboratory blanks met the frequency criteria. The following contaminants of concern were detected in the laboratory blanks:

Inorganics:

barium, manganese, and selenium;

PCDDs/PCDFs:

1,2,3,4,6,7,8-HpCDD, and OCDD;

CL Pesticides:

4,4'-DDD, 4,4'-DDE, 4,4'-DDT, endrin, alpha-BHC, beta-BHC,

heptachlor, aldrin, heptachlor epoxide, endrin aldehyde,

gamma-chlordane, and methoxychlor;

SVOCs:

phenol, bis(2-ethylhexyl)phthalate, and di-n-butylphthalate; and

VOCs:

acetone, methylene chloride, 4-methyl-2-pentanone, 2-hexanone, and

2-butanone.

Any associated sample result less than five times the blank contamination (10 times for common laboratory contaminants) was qualified as not detected (U). See the data QA memoranda (Appendix C) for sample results that were qualified based on blank contamination.

Precision

Precision measures the reproducibility of the sampling and analytical methods. Laboratory and field precision is defined as the relative percent difference (RPD) between duplicate sample analyses. The laboratory duplicate samples or MS/MSD samples measure the precision of the analytical method.

The RPD values were reviewed for all laboratory analyses. Approximately 1 percent of the sample results were qualified as estimated quantities (J) based on duplicate RPD QC outliers. Overall, the project DQO for accuracy of 90 percent was met.

Accuracy

Accuracy measures the reproducibility of the sampling and analytical methodology. Laboratory accuracy is defined as the surrogate spike percent recovery (%R) for each VOC, SVOC, CL Pesticide/PCB, or PCDD/PCDF analysis or the matrix spike %Rs. The surrogate %R values were reviewed for all appropriate sample analyses. Approximately 0.8 percent of the sample results were rejected (R) based on surrogate QC outliers.

The matrix spike %R values were reviewed for all MS and MSD analyses. Approximately 0.7 percent of the data were qualified as estimated (J or UJ), and approximately 0.2 percent of the data were rejected (R) based on MS/MSD recoveries. Overall, the project DQO for accuracy of 90 percent was met.

Completeness

Data completeness is defined as the percentage of usable data (usable data divided by the total possible data). All laboratory data were reviewed for data validation and usability. Approximately 99.8 percent of the Wenatchee Landfill TBA data were determined to be usable, therefore, the project DQO for completeness of 90 percent was met. Samples were not collected from Riverfront Park seeps because no seeps were found during the TBA.

Representativeness

Data representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or environmental condition. The number and selection of samples were determined in the field to account accurately for site variations and sample matrices. The DQO for representativeness of 90 percent was met.

Program Statement of Work for Organic Analyses (EPA 1991b), and all PCDD/PCDF analyses were performed by Southwest Laboratory of Oklahoma, Broken Arrow, Oklahoma, a commercial laboratory, following EPA SW-846 Method 8290.

Data qualifiers were applied as necessary according to the following guidance documents:

- Region 10 SOP for the Validation of Polychlorinated Dibenzo-dioxin (PCDD) and Polychlorinated Dibenzo-furan (PCDF) Data (EPA 1996a);
- Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 1994b); and
- Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 1994c).

In the absence of other QC guidance, laboratory- and/or method-specific QC limits also were utilized to apply qualifiers to the data. Copies of the data QA memoranda are included in Appendix C.

SATISFACTION OF DATA QUALITY OBJECTIVES

The following EPA (1993) guidance document was used to establish data quality objectives (DQOs) for this TBA:

 Data Quality Objectives Process for Superfund, Interim Final Guidance, EPA 540-R-93-071.

The EPA TM determined that the definitive data without error and bias determination criteria would be used for the sampling and analyses conducted during the field activities. The data quality achieved during the fieldwork produced sufficient data that met the DQOs in the SQAP (E & E 1999).

A discussion of the objectives that were accomplished is presented in the following sections.

PROJECT-SPECIFIC DATA QUALITY OBJECTIVES

The laboratory data were reviewed to ensure that DQOs for the project were met. The following describe the laboratories' ability to meet project DQOs for precision, accuracy, and completeness and the field team's ability to meet project DQOs for representativeness and comparability. The laboratories and the field team were able to meet the DQOs for the project.

DISCUSSION OF QUALITY ASSURANCE/QUALITY CONTROL

QA/quality control (QC) data are necessary to determine precision and accuracy and to demonstrate the absence of interferences and/or contamination of sampling equipment, glassware, and reagents. Specific QC requirements for laboratory analyses are incorporated in the analytical methods performed by the laboratory. Additional QC requirements are provided in the EPA Contract Laboratory Program Statement of Work for Inorganic Analyses (EPA 1991a) and EPA Contract Laboratory Program Statement of Work for Organic Analyses (EPA 1991b). These QC requirements or equivalent requirements were followed for analytical work in the Wenatchee Landfill TBA.

QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

A minimum of one matrix spike (MS)/matrix spike duplicate (MSD) sample for VOC, SVOC, CL Pesticide/PCB, and PCDD/PCDF analyses, and one MS/duplicate (DUP) for inorganic analyses, were designated per 20 samples collected for each matrix sample during the project.

Eight trip blank samples (at a rate of one trip blank per cooler of VOC samples) were shipped to the laboratories. Three rinsate samples (at a rate of one per 20 samples collected from each piece of nondedicated sampling equipment) from the decontaminated GeoprobeTM rods with acetate liners were submitted for the project. Detected analytes in the trip blank and rinsate blank samples are included in the QA/QC samples analytical results summary table at the end of this Appendix.

The laboratories analyzed several QC samples for QA purposes according to EPA methods. The analyzed QC samples included initial and continuing calibrations, trip and method blanks, MSs, DUPs, and laboratory control samples.

DATA VALIDATION

EPA chemists reviewed and validated data from analyses performed by Contract Laboratory Program (CLP) laboratories. These analyses consisted of VOCs, SVOCs, CL Pesticide/PCBs, and TAL metals. START chemists validated PCDD/PCDF data from the START-subcontracted laboratory and performed a validation check on the EPA-generated QA memoranda.

All samples were collected following the guidance of the SQAP (E & E 1999) for the field activities. All inorganic analyses were performed by a CLP laboratory following the EPA Contract Laboratory Program Statement of Work for Inorganic Analyses (EPA 1991a), all VOC, SVOC, and CL Pesticide/PCB analyses were performed by CLP laboratories following the EPA Contract Laboratory

APPENDIX B

SAMPLE PLAN ALTERATION FORM

SAMPLE PLAN ALTERATION FORM

Project Name and Number	r: Wenatchee Landfill Targeted Brownfield Assess	sment TDD 98-11-0007
77 · · · · · · · · · · · · · · · · · ·	• • • •	
Material to be Sampled: G	roundwater seeps	
•		
Measurement Parameters:	Volatile Organic Compounds, Semivolatile Organ	nic Compounds, Chlorinated
Pesticides/Polychlorinated	l Biphenyls, Target Analyte List Metals, polychlor	rinated dibenzo-dioxins and
polychlorinated dibenzo-f	urans	
Standard Procedure for Fi	eld Collection & Laboratory Analysis (cite referen	nces): EPA SW-846
(laboratory analyses)		
(Thousands J. Mannes J. C. T.		
Reason for Change in Fiel	ld Procedure or Analytical Variation: Seeps were r	not located.
		•
Variation from Field or A	nalytical Procedure: Not applicable	
4-44-20-20-20-20-20-20-20-20-20-20-20-20-20-		
Special Equipment, Mater	rials, or Personnel Required: None	
CONTACT	APPROVED SIGNATURE	DATE
Initiator:		
START PL:		
EPA TM:		
EPA QA Officer:		

APPENDIX C

QUALITY ASSURANCE/QUALITY CONTROL INFORMATION
AND DATA VALIDATION MEMORANDA

VIII Matrix Spike/Matrix Spike Duplicates: Satisfactory.

Matrix spike percent spike recovery (%R) values were within QC limits, except for the following:

SAMPLE ID	MATRIX	ANALYTE	%R	QC LIMITS
99274102MS	Soil	OCDD	44.1	50 - 150 %
99274102MSD	Soil	OCDD	20.2	50 - 150 %

OCDD = Octachlorodibenzodioxin.

The result for OCDD was flagged as estimated (J) in sample 99274102.

The relative percent difference (RPD) values between the matrix spike and matrix spike duplicate were within QC limits, except:

SAMPLE ID	MATRIX	ANALYTE	RPD	QC LIMITS
99274102	Soil	OCDD	74.3	50

OCDD = Octachlorodibenzodioxin.

The sample result for OCDD was flagged as estimated (J) in sample 99284102.

IX Analytical Sequence: Acceptable.

All of the standards, blanks, samples and QC samples were analyzed in accordance with the method-specified analytical sequence.

X Laboratory Control Sample (LCS) Analyses: Acceptable.

A spiked blank was extracted and analyzed with each sample delivery group (SDG). The recoveries for the target compounds and internal standards for the LCS met the acceptance criteria. None of the data were qualified on this basis.

XI Compound Identification: Acceptable.

For analytes with isotopically labeled standards, the retention times of the sample quantitation ions maximized within -1 to +3 seconds of the isotopically labeled standard ions. Several samples had ratios for the quantitation ion integrated ion currents outside the method QC limits, the laboratory qualified these sample results as estimated maximum possible concentrations (X or I). The reviewer changed the laboratory qualifiers "X" and "I" to "J" (estimated).

XII Compound Quantitation and Detection Limits: Acceptable.

All of the samples were analyzed at the project required quantitation limits. Some of the totals reported were corrected by the reviewer due to adjustments that had to be made because of contamination in a blank or miscalculations. All of the compounds were calculated off the primary column, DB5, except for TCDF, which was calculated from a second column. All of the detected target compounds were within the linear calibration range.

XIII Laboratory Contact: Required

The laboratory was contacted on August 31, 1999, for a discrepancy with the MS and MSD summary form for 99274109. The laboratory accidently submitted an additional MS/MSD recovery form with the wrong results, the correct forms were in the data package and the percent recovery values were verified.

XIV Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in EPA Method 8290 and the OSWER Directive "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan and Data Validation Procedures" (EPA/540/G-90/004). Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

- U The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity because the reported concentrations were less than the contract required detection limits or because quality control criteria limits were not met.
- UJ The material was analyzed for, but not detected. The reported detection limit is estimated because Quality Control criteria were not met.

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274102

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.01

Client Name: E&E-WA

Sample Wt/Vol: 12.14 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date:

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105197#7

Analysis Date: 19-JUL-99 Time: 19:45:51

Blank Data Filename: A105197#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105197#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 6.9

	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
2,3,7,8-TCDD	· •	0.306	υ	*	* *	1.48
1,2,3,7,8-PeCDD		0.530	ט	*	*	1.11
1,2,3,4,7,8-HxCDD	*	0.581	U	*	· *	0.74
1,2,3,6,7,8-HxCDD	*	0.391	Ū	*	*	1.10
1,2,3,7,8,9-HxCDD	*	0.449	U	*	*	0.96
1,2,3,4,6,7,8-HpCI	D 17.823	1.421	ゴ	1.04	1.000	1.14
OCDD	178.019	1.126	ょ	0.92	1.000	1.11
2.3,7,8-TCDF	#	0.224	05	. *	*	1.15
1,2,3,7,8-PeCDF	*	. 0.532	U 3	*	*	0.98
2,3,4,7,8-PeCDF	*	0.538	บゴ	*	*	0.97
1,2,3,4,7,8-HxCDF	2.749	0.743	ゴ	1.02	1.000	1.03
1,2,3,6,7,8-HxCDF	. **	0.557	Ū	*	*	1.38
1,2,3,7,8,9-HxCDF	*	0.882	Ū	*	*	0.87
2,3,4,6,7,8-HxCDF	*	0.652	U	*	*	1.18
1,2,3,4,6,7,8-HpC		1.261	T	0.83	1.000	1.44
1,2,3,4,7,8,9-HpC		1.776	ប៊	*	, #r	1.02
OCDF	5.307	1.674		0.88	1.003	1.21
Total Tetra-Dioxi	ns *	0.306	υ			
Total Penta-Dioxi	•	0.530	U			· ·
Total Hexa-Dioxin		0.391	U			
Total Hepta-Dioxi	ns 35.374	1.421				
Total Tetra-Furan		0.224				
Total Penta-Furan	s 42.658	0.538				
Total Hexa-Furans		0.557			•	
Total Hepta-Furan		1.261	U			
(a) Our life one . 13		tootod'. Y	c. T 171	MDC C - 118	e value	

(1) Qualifiers: U and * - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.



USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274102

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.01

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 12.14 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date:

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 19-JUL-99 Time: 19:45:51

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105197#7

Injection Volume(ul): 2.00

Blank Data Filename: A105197#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105197#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 6.9

•	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD CCDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HyCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	CONCENTRATION * * * 17.82 178.02 * * 2.75 * 3.85 5.31	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.05 X 0.5 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1	
		*T	otal: 3.1066+00 8 9(5)

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.

* Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274103

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.02

Client Name: E&E-WA

Sample Wt/Vol: 13.37 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date:

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

GC Column:DB-5

Ext. Vol(ul):20.0

Ext. Date: 07-06-99

Inj. Vol(ul):2.0

Sample Data Filename: A105197#3

Analysis Date: 19-JUL-99 Time: 16:30:42

Blank Data Filename: A105197#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105197#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 17.35

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual. (1)	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
2,3,7,8-TCDD	1.119	0.201	5	0.98	1.002	1.48
1,2,3,7,8-PeCDD	1.027	0.323	5	2.91	1.000	1.11
1,2,3,4,7,8-HxCDD	3.754	0.576	5	5.36	0.998	0.74
1,2,3,6,7,8-HxCDD	1.329	0.388	ゴ	0.87	1.001	1.10
1,2,3,7,8,9-HxCDD		0.181	U	*	*	0.96
1,2,3,4,6,7,8-HpC	DD 55.530	1.219		1.06	1.001	1.14
OCDD	756.461	0.444		0.89	1.000	1.11
2,3,7,8-TCDF ⁸	SEER TO 3 A77	0.199	<u>—е ў</u>	0.74	1.002	1.15
1,2,3,7,8-PeCDF	s econo continu" *	0.367	ָּט יי	3/49 0.74	* * *	0.98
2,3,4,7,8-PeCDF	*	0.372	U	· 🖈 .	*	0.97
1,2,3,4,7,8-FECDF	4.377	0.235	5	1.25	1.001	1.03
1,2,3,6,7,8-HxCDF	*	0.176	2	*	*	1.38
1,2,3,7,8,9-HxCDF	•	0.279	Ū	*	* *	0.87
1,2,3,7,6,9-fxCDF	*	0.206	U	*	* *	1.18
2,3,4,6,7,8-HxCDF	DF 11.487	0.493	* ;	1.02	1.000	1.44
1,2,3,4,6,7,8-HpC		0.694	U	*	*	1.02
1,2,3,4,7,8,9-HpC	23.689	0.616	_	0.85	1.003	1.21
					•	•
Total Tetra-Dioxi		0.201	Ŭ			
Total Penta-Dioxi	ins *	0.323	Ū			
Total Hexa-Dioxi	ns *	0.388	U .	•	٠	
Total Hepta-Diox:	ins 111.317	1.219		* *		
Total Tetra-Fura	ns 12.054	0.199				
Total Penta-Fura				•	. ,	
Total Hexa-Furan		0.176				•
motel Wents-Fursi	ne · 11.487	0.493				
(1) Ouslifiers: II	and * - not de	etected: X	& I - E	EMPC. C - us	e varue	

(1) Qualifiers: U and * - not detected; from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.

USEPA - ITD

Page 3 of 7

AATS/SWOK, INC. 2378-TCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274103

CLIENT ID

Client Name: E&E-WA

Lab Sample ID: 39261.02

Matrix (aqueous/solid/leachate): solid Sample Wt/Vol: 13.37 g or mL: g

Sample Receipt Date: 07/02/99

Initial Calibration Date: 05/13/99

Ext. Date: 07/06/99

Instrument ID: 70S

Analysis Date: 20-JUL-99 Time: 19:04:45

GC Column ID: SP2331

Extract Volume (uL): 20.0

Sample Data Filename: S104227#14

Injection Volume (uL): 2.0

Blank Data Filename: S104227#13

Dilution Factor: 1

Cal. Ver. Data Filename: S104227#12

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 17.35

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	EMPC	ION ABUND. RATIO (1)	RRT (1)
2,3,7,8-TCDF	***	0.7219	#	*	*
INT. STANDARD	SPIKE CONCENTRATION	CONCENT. FOUND	RECOV.	ION ABUND. RATIO (2)	RRT (1)
13C-2,3,7,8-TCDF	1000	618.75	61.87	0.76	1.16
CLEANUP STANDARD					
37C1-2,3,7,8-TCDD	800	432.64	54.08		0.99

NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

TCDDF1I



USEPA, ITD

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274103

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.02

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 13.37 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date:

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 19-JUL-99 Time: 16:30:42

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105197#3

Injection Volume(ul): 2.00

Blank Data Filename: A105197#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105197#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 17.35

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	
		X 1.0	1.12e+00	
2,3,7,8-TCDD	1.12	•	5.13e-01	
1,2,3,7,8-PeCDD	1.03	X 0.5	3.75e-01	
1,2,3,4,7,8-HxCDD	3.75	X 0.1		
1,2,3,6,7,8-HxCDD	1.33	X 0.1	1.33e-01	
1,2,3,7,8,9-HxCDD	*	X 0.1		
1,2,3,4,6,7,8-HpCDD	55.53	X 0.01	5.55e-01	-
OCDD	756.46	x 0.001	7.56e-01	~
2,3,7,8-TCDF	ND 1-48	X_0.1	1:48e-01	व विशिव
1,2,3,7,8-PeCDF	*	X 0.05	*	
2,3,4,7,8-PeCDF	*	X 0.5	*	
1,2,3,4,7,8-HxCDF	4.38	X 0.1	4.38e-01	
1,2,3,6,7,8-HxCDF	*	X 0.1	, . *	
1,2,3,7,8,9-HxCDF	. *	x 0.1	*	
2,3,4,6,7,8-HxCDF	★	x 0.1	*	
	11.49	X 0.01	1.15e-01	
1,2,3,4,6,7,8-HpCDF	*	X 0.01	, *	
1,2,3,4,7,8,9-HpCDF	23.69	X 0.001	2.37e-02	
OCDF	23.69	n 0.002	واداه ح	٩
		*T	otal: 7:8120+00	•
		. •	4. 03.e 00	

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

* Total TEF is calculated by summing up all positively identified isomers of each homologous series.



Form 1

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274104

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.03

Client Name: E&E-WA

Sample Wt/Vol: 13.05 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date:

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Sample Data Filename: A105197#4

Analysis Date: 19-JUL-99 Time: 17:19:29

Blank Data Filename: A105197#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105197#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 16.36

• :		DETECTION	Qual.	ION ABUND.	RRT	MEAN
	CONCENTRATION		(1)	RATIO (2)	(2)	RRF
ANALYTE	FOUND	LIMIT	(±).	101110 (-)	•-•	
ı		0.053	Ū	*	*	1.48
2,3,7,8-TCDD		0.251	บ	*	* *	1.11
1,2,3,7,8-PeCDD	* .	1.975	υ·	*	*	0.74
1,2,3,4,7,8-HxCDI	*	1.183	-	*	*	1.10
1,2,3,6,7,8-HxCDI	* .	0.797	U	•	*	0.96
1,2,3,7,8,9-HxCDI	*	0.913	Ŭ	- 00	1.000	1.14
1,2,3,4,6,7,8-Hp	CDD 17.605	0.338		1.08	1.000	1.11
CODD	269.807	0.249		0.88		1.15
	FER TO THE 4 179	0.267	<u>C_</u> #,	/·· 0.80	1.002	0.98
1,2,3,7,8-PeCDF	second column +	0.202	ט ייי			0.90
2,3,4,7,8-PeCDF	1.693	0.204		1.67	1.030	
1,2,3,4,7,8-HxCD		0.753	ゴ	1.19	1.001	1.03
1,2,3,4,7,8-11xCD		0.565	ับ	*	*	1.38
1,2,3,6,7,8-HxCD	* = *	0.894	σ	*	*	0.87
1,2,3,7,8,9-HxCD	F 1.044	0.660	•	1.09	1.019	1.18
2,3,4,6,7,8-HxCD	•	0.857		1.06	1.000	1.44
1,2,3,4,6,7,8-Hp		1.207	Q	0.84	1.035	1.02
1,2,3,4,7,8,9-Hp	30.361	0.344	_	0.82	1.003	1.21
OCDF ·	30.361	0.544				•
•		0.251				
Total Tetra-Diox	ins 1.104	1.975	υ.	•		
Total Penta-Diox	TIIS	0.797	บ			•
Total Hexa-Dioxi	ns	T. 7				
Total Hepta-Diox	cins 34.743	0.338				
Total Tetra-Fura	ans 35.948	0.267	1 1			
Total Penta-Fura	ans 23.230	0.204	•			
Total Hexa-Fura	ns 14.984	0.565			. "	:
Total Hepta-Fura	40 775	0.857	·		a velve	•
(1) Oualifiers: 1	g and * - not de	etected; X	& I - 1	MPC. C - us	nation	

from second column analysis. B - possible blank contamination. (2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.



NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

570.66

800

71.33

CLEANUP STANDARD

37C1-2,3,7,8-TCDD

73

TCDDF1I

0.99

USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274104

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.03

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 13.05 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date:

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 19-JUL-99 Time: 17:19:29

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105197#4

Injection Volume(ul): 2.00

Blank Data Filename: A105197#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105197#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 16.36

	CONCENTRATION	+ \	F-ADJUSTED CENTRATION
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 0CDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HyCDF 1,2,3,4,6,7,8-HyCDF	17.60 269.81 1.705 4.18 1.69 13.47 * 1.04 12.38 1.63 30.36	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01 X 0.01 X 0.001 X 0.001	* 1.76e-01 2.70e-01 4.18e-01 4.18e-01 1.35e+00 * 1.04e-01 1.24e-01 1.63e-02 3.04e-02 Q q(3\qq 9.179e+00
			3.09 @ OO

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate (EPA/625/3-89/016, March 1989.

^{*} Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274105

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.04

Client Name: E&E-WA

Sample Wt/Vol: 12.94 g or mL: g

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Sample Data Filename: A105197#5

Analysis Date: 19-JUL-99 Time: 18:08:17 Blank Data Filename: A105197#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105197#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 7.47

ANALYTE	CONCENTRATION	DETECTION LIMIT	Qual. (1)	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
ANALITE	100112					
2,3,7,8-TCDD	#	0.144	ช	*.	*	1.48
1,2,3,7,8-PeCDD	*	0.243	υ.	*	*	1.11
1,2,3,4,7,8-HxCDD	*	0.273	U	*	*	0.74
1,2,3,6,7,8-HxCDD	*	0.184	ט	*	*	1.10
1,2,3,7,8,9-HxCDD	*	0.211	บ	* * * * * * * * * * * * * * * * * * * *	*	0.96
1,2,3,1,6,9-AKCDD	DD 8.273	0.173	•	1.09	1.000	1.14
1,2,3,4,6,7,8-HpC	79.196	0.293		,,0.94	1.000	1.11
OCDD	REFER TO 0 467	0.197	<u>—e-Ø</u>	96/40.84	1.001	1.15
2,3,7,0-1CD1	THE SECOND COLUMN	0.207	T	*	★*	0.98
1,2,3,1,6-FECDE	•	0.209	บ	*	*	0.97
2,3,4,7,8-PeCDF	2.354	0.615	· 5	1.16	1.001	1.03
1,2,3,4,7,8-HxCDF	* *	0.461	ับ	#	*	1.38
1,2,3,6,7,8-HxCDF	• *	0.730	Ū	*	*	0.87
1,2,3,7,8,9-HxCDF		0.539	υ.	· #	*	1.18
2,3,4,6,7,8-HxCDF	nr 2.586	0.194		1.13	1.001	1.44
1,2,3,4,6,7,8-HpC		0.274	ט	*	*	1.02
1,2,3,4,7,8,9-HpC	3.743	0.273	. •	0.81	1.004	1.21
OCDF	3.743	0.275	•		•	
		0.144	σ			
Total Tetra-Dioxi		0.243	Ū			
Total Penta-Dioxi	•	0.184	_			,
Total Hexa-Dioxin		0.173		,	•	
Total Hepta-Diox:				•		
Total Tetra-Fura	-	= -				
Total Penta-Fura		0.461			• •	
Total Hexa-Furan		0.194				
Total Hepta-Fura		U.194.	- T - X	MPC. C - us	e value	*
(1) Oualifiers: U	and * - not de	erecrea; x	∝ T _ 1	MIEC. C GE		

from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1



USEPA - ITD

Page 5 of 7

AATS/SWOK, INC. 2378-TCDF ANALYSIS DATA SHEET Use for Sample and Blank Results CLIENT ID 99274105

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.04

Matrix (aqueous/solid/leachate): solid Sample Wt/Vol: 12.94 g or mL: g

Sample Receipt Date: 07/02/99

Initial Calibration Date: 05/13/99

Ext. Date: 07/06/99

Instrument ID: 70S

Analysis Date: 20-JUL-99 Time: 20:18:30

GC Column ID: SP2331

Extract Volume (uL): 20.0 Sample Data Filename: S104227#16

Injection Volume (uL): 2.0

Blank Data Filename: S104227#13

Dilution Factor: 1

Cal. Ver. Data Filename: S104227#12

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 7.47

COMCCHET GOLD				* *	
ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	EMPC	ION ABUND. RATIO (1)	RRT (1)
2,3,7,8-TCDF	0.499	0.1857	_	0.83	1.001
INT. STANDARD	SPIKE CONCENTRATION	CONCENT. FOUND	RECOV.	ION ABUND. RATIO (2)	RRT (1)
13C-2,3,7,8-TCDF	1000	673.86	67.39	0.75	1.16
CLEANUP STANDARD			• •		
37C1-2.3.7.8-TCDD	800	544.60	68.08	•	0.99

NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274105

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.04

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 12.94 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date:

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 19-JUL-99 Time: 18:08:17 GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105197#5

Injection Volume (ul): 2.00

Blank Data Filename: A105197#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105197#1

% Moisture: 7.47 Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

	•			
	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	
•				
• • • • • • • • • • • • • • • • • • •	* ·	X 1.0	*	
2,3,7,8-TCDD	•	X 0.5	*	•
1,2,3,7,8-PeCDD	• =		•	
1,2,3,4,7,8-HxCDD	*	X 0.1		
1,2,3,6,7,8-HxCDD	*	X 0.1	*	
1,2,3,7,8,9-HxCDD	*	X 0.1	*	•
	8.27	X 0.01	8.27e-02	
1,2,3,4,6,7,8-HpCDD			7.92e-02	
OCDD	79.20	D4/3/94 X 0.001	4_67e-03-	0.49 ×10-2
2,3,7,8-TCDF	0.499 8.47		+	
1,2,3,7,8-PeCDF	*	X 0.05	Ţ.,	·
2,3,4,7,8-PeCDF	*	X 0.5	·	*
1,2,3,4,7,8-HxCDF	2.35	X 0.1	2.35e-01	
	*	x 0.1	★ **	
1,2,3,6,7,8-HxCDF	<u>.</u>	x 0.1	*	
1,2,3,7,8,9-HxCDF	•		*	
2,3,4,6,7,8-HxCDF	. 🕏	x 0.1	0.5000	
1,2,3,4,6,7,8-HpCDF	2.59	X 0.01	2.59e-02	
1,2,3,4,7,8,9-HpCDF		X 0.01	*	
	3.74	X 0.001	3.74e-03	
OCDF	J./T		D .413 199	
•		*	Total: 2-165e+00	
	•		4. 26 e Ol	•
	· ·		4. 2 5 5 01	

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.

* Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90



Form 1

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results 99274106

Lab Code: SWL Case No.:

SDG No.: Lab Sample ID: 39261.05

Client Name: E&E-WA

Sample Wt/Vol: 11.76 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date:

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Sample Data Filename: A105197#6

Analysis Date: 19-JUL-99 Time: 18:57:04 Blank Data Filename: A105197#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105197#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 5.59

	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
	0.388	0.228	5	0.58	1.001	1.48
2,3,7,8-TCDD	0.500	0.398	ט	*	*	1.11
1,2,3,7,8-PeCDD		0.290	Ū	*	*	0.74
1,2,3,4,7,8-HxCDD		0.195	. ם	*	*	1.10
1,2,3,6,7,8-HxCDD		0.224	Ū	*	*	0.96
1,2,3,7,8,9-HxCDD		0.483		1.07	1.000	1.14
1,2,3,4,6,7,8-HpC	DD 6.546	0.411		0.88	1.000	1.11
OCDD	71.891	0.411		17hr 0.88	1.002	1.15
	ECOND COLUMN 876		ີ U.	*	*	0.98
1,2,3,7,8-PeCDF	. *	0.213	5	1.07	1.031	0.97
2,3,4,7,8-PeCDF	0.301	0.215		1.11	1.000	1.03
1,2,3,4,7,8-HxCDF	2.168	0.578	5	+	*	1.38
1,2,3,6,7,8-HxCDF	· **	0.433	Ŭ	- -	*	0.87
1,2,3,7,8,9-HxCDF	* *	0.686	. ប		*	1.18
2,3,4,6,7,8-HxCDF	r y	0.506	ט	- 05	1.000	1.44
1,2,3,4,6,7,8-HpC	DF 2.736	0.456	· 5	1.25	1.000	1.02
1,2,3,4,7,8,9-HpC	DF *	0.642	ָ ע		1.003	1.21
OCDF	4.122	0.669		0.81	1.003	1.21
Total Tetra-Dioxi	- · · · · · · · · · · · · · · · · · · ·	0.228	U			•
		0.398	Ū			
Total Penta-Dioxi		0.195	σ.	,		÷
Total Hexa-Dioxin		0.483				
Total Hepta-Diox		0.173			•	
Total Tetra-Fura		0.215			a Égit	
Total Penta-Fura		0.433			1. A. M. M.	
Total Hexa-Furan		0.456	TT	•		
Total Hepta-Fura		etected; X	_	empc. C - u	se value	
(1) Qualifiers: U	and * - not de	etected; v	C T - 1		ation	

from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.



ANALYTE .

2,3,7,8-TCDF

INT. STANDARD

13C-2,3,7,8-TCDF

CLEANUP STANDARD

37C1-2,3,7,8-TCDD

NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

0.3798

SPIKE

CONCENTRATION

1000

800

CONCENT.

FOUND

660.91

404.39

TCDDF1I

RRT

(1)

1.16

0.99

ION ABUND.

RATIO (2)

0.75

RECOV.

윰

66.09

50.55

USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274106

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.05

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 11.76 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date:

Instrument ID: AutoSpec

Ext. Date: 07-06-99 Shift:

Analysis Date: 19-JUL-99 Time: 18:57:04

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105197#6

Blank Data Filename: A105197#2

Injection Volume(ul): 2.00

Cal. Ver. Data Filename: A105197#1

Dilution Factor: 1

% Moisture: 5.59

Concentration Units (p	g/L or ng/Kg dry we:	ight): ng/Kg %	Moisture: 5.59	
	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD 0CDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,7,8,9-HpCDF	0.39 * * 6.55 71.89 0.30 2.17 * 2.74 * 4.12	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01	3.88e-01 * 6.55e-02 7.19e-02 8.76e-02 * 1.51e-01 2.17e-01 * 2.74e-02 4.12e-03 Q 919199	3 a ls Ira
		#.T.	9.24 € 01	

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

^{*} Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274107

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.06

Client Name: E&E-WA

Sample Wt/Vol: 14.17

g or 吡: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: Al05201#3

Analysis Date: 20-JUL-99 Time: 12:31:06

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual. (1)	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
		0.322	U	*	*	1.48
2,3,7,8-TCDD	· *		ָ ט	*	*	1.11
1,2,3,7,8-PeCDD	*	0.775	ττ	*	*	0.74
1,2,3,4,7,8-HxCDD		0.471		1.34	1.001	1.10
1,2,3,6,7,8-HxCDD	1.713	0.317		1.19	1.009	0.96
1,2,3,7,8,9-HxCDD	0.870	0.364		1.02	1.000	1.14
1,2,3,4,6,7,8-HpC	DD 67.457	0.799	4	0.94	1.000	1.11
OCDD	827.747	0.318	cry XI.	dik 0.72	1.002	1.15
2,3,7,8-TCDF PEF2	SECOND COLUMN +	0.280		117K · U . /2	1.002	0.98
1,2,3,7,0-26002		0.240	U.	1.29	1.030	0.97
2,3,4,7,8-PeCDF	1.851	0.242	প্র	1.22	1.001	1.03
1,2,3,4,7,8-HxCDF	8.953	0.478	4	1.03	1.003	1.38
1,2,3,6,7,8-HxCDF	1.055	0.358		1.03	1.005	0.87
1,2,3,7,8,9-HxCDF	• •	0.567	บ		1.019	1.18
2,3,4,6,7,8-HxCDF	1.361	0.419		1.09	1.000	1.44
1,2,3,4,6,7,8-HpC	DF 20.229	0.251		1.01	1.000	1.02
1,2,3,4,7,8,9-HpC	DF 1.393	0.354	•	1.07		1.02
OCDF	53.484	0.412		0.86	1.003	1.21
Total Tetra-Dioxi	ne *.	0.322	U .	-		
Total Penta-Diox:		0.775	U	. '	•	
Total Hexa-Dioxi		0.317				
		0.799	•			
Total Hepta-Diox		0.280				.*
Total Tetra-Fura Total Penta-Fura		0.242				
		0.358				
Total Hexa-Furan		0.251		•		
Total Hepta-Fura (1) Qualifiers: U		etected: X	& I - !	EMPC. C - us	e value	

from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.

NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

607.44

563.95

1000

800

13C-2,3,7,8-TCDF

CLEANUP STANDARD

37C1-2,3,7,8-TCDD

60.74 0.77

70.49

TCDDF1I

1.16

0.99

USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY
Use for Sample and Blank Results

99274107

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.06

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 14.17 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date: 07-01-99

Sample Receipt Date. 0: 02 05

Instrument ID: AutoSpec

Ext. Date: 07-06-99 Shift:

Analysis Date: 20-JUL-99 Time: 12:31:06

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105201#3

Injection Volume(ul): 2.00

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 20.68

	CONCENTRATION	TEF (1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD CCDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HyCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF	1.71 0.87 67.46 827.75 1.85 8.95 1.06 * 1.36 20.23 1.39 53.48	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.005 X 0.5 X 0.5 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01	* 1.71e-01 8.70e-02 6.75e-01 8.28e-01 5.17e-01 0.188 9.26e-01 8.95e-01 1.06e-01 2.02e-01 1.39e-02 5.35e-02 0 9(3(9) al: 1.191e+01
		*100	4.20 e00

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

* Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90

Form :

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274108

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.07

Client Name: E&E-WA

Sample Wt/Vol: 16.50

g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105201#4

Analysis Date: 20-JUL-99 Time: 13:19:52

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 25.45

	CONCENT	RATION	DETECTION	Qual.	ION ABUND		MEAN
ANALYTE	FOUN	D	LIMIT	(1)	RATIO (2)	(2)	RRF
2,3,7,8-TCDD		*	0.097	υ .	*	*	1.48
1,2,3,7,8-PeCDD		*	0.180	U ·	*	* *	1.11
1,2,3,4,7,8-HxCDD		* -	0.200	ช	*	*	0.74
1,2,3,6,7,8-HxCDD		. *	0.135	U	* ,	*	1.10
1,2,3,7,8,9-HxCDD		*	0.155	ֹ ע	*	*.	0.96
1,2,3,4,6,7,8-HpC		0.374	0.149		1.15	1.001	1.14
OCDD	-	3.764	0.198	u_	0.94	1.000	1.11
2,3,7,8-TCDF 565 '		0.205	0.130	<u>cx_0</u>	વિશ્વના .59	1.002	1.15
1,2,3,7,8-PeCDF C		*	0.092	ប	. *	* '	0.98
2,3,4,7,8-PeCDF	RIGHT	*	0.093	Ū	*		0.97
1,2,3,4,7,8-HxCDF		10. ±	0.091	บ	*	*	1.03
1,2,3,6,7,8-HxCDF		. *	0.068	Ū	*	*	1.38
			0.108	Ū	*	*	0.87
1,2,3,7,8,9-HxCDF			0.080	Ū	*	*	1.18
2,3,4,6,7,8-HxCDF		. *	0.095	. U	*	. *	1.44
1,2,3,4,6,7,8-HpC			0.133	U	*	*	1.02
1,2,3,4,7,8,9-HpC	:DF		0.212	U	*	*	1.21
OCDF	·		0.212	U	•		
			0 007	U		*	
Total Tetra-Dioxi			0.097	-		• •	
Total Penta-Dioxi		* .	0.180	U U			• .
Total Hexa-Dioxir		*	0.135	U			
Total Hepta-Dioxi		0.374	0.149				
Total Tetra-Furar	ıs	*	0.130	U			and the second
Total Penta-Furar	ns	4	0.093	ש			100
Total Hexa-Furans	S.	. *	0.068	U	•	•	
Total Hepta-Fura	ns	*	0.095	U	•		* * *
(1) Qualifiers: U	and * -	not de	etected; X	& I - E	MPC. C - u	se value	

(1) Qualifiers: U and * - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1



NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

565.65

800

37C1-2,3,7,8-TCDD

70.71

0.99

USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274108

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Analysis Date: 20-JUL-99 Time: 13:19:52

HOMA Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.07

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 16.50 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105201#4

Injection Volume (ul): 2.00

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 25.45

		•	• •	
	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	
		X 1.0	*	-
2,3,7,8-TCDD		X 0.5	. • • • • • • • • • • • • • • • • • • •	
1,2,3,7,8-PeCDD		X 0.1	•	
1,2,3,4,7,8-HxCDD				
1,2,3,6,7,8-HxCDD	*	X 0.1	· · · · · · · · · · · · · · · · · · ·	
1,2,3,7,8,9-HxCDD		X 0.1		
1,2,3,4,6,7,8-HpCDD	0.37	X 0.01	3.74e-03	
OCDD	ND-3-76- 1 91387	X 0.001	046 2-76e-03 ND	mil
2,3,7,8-TCDF	0.414 0.21 10 als/9	X 0.1	Ø4/3 (11 2-09e-02 0.0	717
1,2,3,7,8-PeCDF	*	X 0.05		
2,3,4,7,8-PeCDF	*	· X 0.5	*	
1,2,3,4,7,8-HxCDF	*	X 0.1	and the state of	
1,2,3,6,7,8-HxCDF	e 🖈	X 0.1	*	• •
1,2,3,7,8,9-HxCDF	★	X 0.1	*	
2,3,4,6,7,8-HxCDF	*	X 0.1	*	
1,2,3,4,6,7,8-HpCDF	*	X 0.01	* · · · · · · · · · · · · · · · · · · ·	•
		X 0.01	•	
1,2,3,4,7,8,9-HpCDF	•	X 0.001	±	
OCDF		2. 0.001	70 alales	
		<u>.</u>	Total: 2.843E-02	*
	•	•	4,510-02	
			4,510-02	

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

* Total TEF is calculated by summing up all positively identified isomers of each homologous series.

6/90

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CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274109

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.08

Client Name: E&E-WA

Sample Wt/Vol: 1000

g or mL: mL

Matrix (aqueous/solid/leachate): aqueous Initial Calibration Date: 07-22-99

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Sample Data Filename: A105209#10

Analysis Date: 22-JUL-99 Time: 18:25:23

Blank Data Filename: A105209#9

Dilution Factor: 1

Cal. Ver. Data Filename: A105209#1

Concentration Units (pg/L or ng/Kg dry weight): pg/L

% Moisture:

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual. (1)	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
				•	*	1.37
2,3,7,8-TCDD	*	11.861	ם ב	•	*	1.17
1,2,3,7,8-PeCDD	*	6.310	UI	-	*	1.10
1,2,3,4,7,8-HxCDD	*	6.240	្រភ		*	0.99
1,2,3,6,7,8-HxCDD	*	5.834	ט ב	_	_	1.09
1,2,3,7,8,9-HxCDD	*	5.708	U	*		1.21
1,2,3,4,6,7,8-HpCI	DD 45.793	6.505	UJ	1.07	1.000	
OCDD	433.420	16.434	US	1.01	1.000	1.28
2,3,7,8-TCDF	*	13.464	US		*	1.15
1,2,3,7,8-PeCDF	*	4.135	บ 5	*	*	1.01
2,3,4,7,8-PeCDF	•	4.790	゚゙゙゙゙゙゙゙ヷ゚゚゚	*	*	1.07
1,2,3,4,7,8-FEEDI	. 💠	6.531	បថ	*	* .	1.16
1,2,3,4,7,6-HACDE	* *	6.387	บ ป	* *	*	1.08
1,2,3,6,7,8-HxCDF	*	7.899	ប្រ	*	*	1.14
1,2,3,7,8,9-HxCDF	*	7.268	บจ	₩.	*	1.13
2,3,4,6,7,8-HxCDF		6.746	. ຫຼວ	*	*	1.35
1,2,3,4,6,7,8-HpC	DF	8.435	υS	*	*	1.40
1,2,3,4,7,8,9-HpC	DF.	11.998	ซีฮ	•	# .	1.45
OCDF	-	11.990	Ū			
Total Tetra-Dioxi	ne *	11.861	. ซ		•	-
Total Penta-Dioxi	nc *	6.310	Ū			
Total Hexa-Dioxir	*	5.834	บ		•	
		6.505		•		•
Total Hepta-Dioxi		13.464	ប			
Total Tetra-Furar	15	4.790	Ū			
Total Penta-Furar	18	6.387	. ប		•	
Total Hexa-Furans	5	6.746	•	•		
Total Hepta-Fura	ns 9.940	6./40 	. V r T	indicates	EMPC. The	c nee
1-1 12-E3 TT -11	ndicates not d	ececcea: Inc	= ~ ~ +			-

eds value (1) Qualifier U indicates not detected; The from second column analysis. The B indicates possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 2 and 9, Method 1613.

RFP C500273T1



USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274109

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.08

Matrix (aqueous/solid/leachate): aqueous

Sample Wt/Vol: 1000 g or mL: mL

Sample Receipt Date: 07-02-99

Initial Calibration Date: 07-22-99

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 22-JUL-99 Time: 18:25:23

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105209#10

Injection Volume(ul): 2.00

Blank Data Filename: A105209#9

Dilution Factor: 1

Cal. Ver. Data Filename: A105209#1

Concentration Units (pg/L or ng/Kg dry weight): pg/L % Moisture:

	CONCENTRATION	TEF (1)	TEF-ADJUSTED CONCENTRATION	
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD CCDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HyCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF CCDF	# # # # # # # # # # #	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.01 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01	### ### ### ### #### #################	@ 963/55

*Total: 1-370e+00 All)

- (1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'
 - * Total TEF is calculated by summing up all positively identified isomers of each homologous series.



CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.11

Client Name: E&E-WA

Sample Wt/Vol: 10.99

g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Sample Data Filename: A105201#5

Analysis Date: 20-JUL-99 Time: 14:08:39 Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 7.85

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual. (1)	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
					*	1.48
2,3,7,8-TCDD	*	0.175	<u>u</u>	-	. .	1.11
1,2,3,7,8-PeCDD	*	0.384	ס			0.74
1,2,3,4,7,8-HxCDD	*	0.414	ש	*	_	1.10
1,2,3,6,7,8-HxCDD	*	0.279	. ס	· •	*	
1,2,3,7,8,9-HxCDD	· , *	0.320	ט	*		0.96
1,2,3,4,6,7,8-HpCI	D 25.827	0.612		1.08	1.000	1.14
OCDD	356.889	1.003	מ	0.99	1.000	1.11
2,3,7,8-TCDF	*	0.200	ט	*	*	1.15
1,2,3,7,8-PeCDF	*	0.262	\mathbf{U}_{-}	. 🖈	*	0.98
2,3,4,7,8-PeCDF	*	0.265	U	* *	*	0.97
1,2,3,4,7,8-HxCDF	3.382	0.253	ゴ	1.05	1.000	1.03
1,2,3,6,7,8-HxCDF	*	0.190	บ	*	*	1.38
1,2,3,7,8,9-HxCDF	*	0.300	U.	*	*	0.87
2,3,4,6,7,8-HxCDF	*	0.222	U	★	* *	1.18
1,2,3,4,6,7,8-HpC	DF 5.727	0.668	•	0.96	1.000	1.44
1,2,3,4,7,8,9-HpC		0.940	ָ ט	*	*	1.02
OCDF	15.725	1.068		0.80	1.004	1.21
Total Tetra-Dioxi	ns *	0.175	ט			
Total Penta-Dioxi		0.384	U	* .		
Total Hexa-Dioxin		0.279	ד			
Total Hepta-Dioxi		0.612				•
Total Tetra-Furan	· ,	0.200				
Total Penta-Furan		0.265				•
Total Hexa-Furans		0.190		•		
		0.668				
Total Hepta-Furar	<u>-</u>	etected; X	& I - F	EMPC. C - us	se value	

(1) Qualifiers: U and * from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1



USEPA, 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274110

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Client Name: E&E-WA

Matrix (aqueous/solid/leachate): solid

Sample Receipt Date: 07-02-99

Ext. Date: 07-06-99 Shift:

Analysis Date: 20-JUL-99 Time: 14:08:39

Extract Volume(ul): 20.0

Injection Volume(ul): 2.00

Dilution Factor: 1

Episode No.: 39261

Lab Sample ID: 39261.11

Sample Wt/Vol: 10.99 g or mL: g

Initial Calibration Date: 07-01-99

Instrument ID: AutoSpec

GC Column ID: DB-5

Sample Data Filename: A105201#5

Blank Data Filename: A105201#2

Cal. Ver. Data Filename: A105201#1

% Moisture: 7.85 Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

	CONCENTRATION		TEF (1)	TEF-ADJUSTED CONCENTRATION	
	*		X 1.0	*	
2,3,7,8-TCDD	*		X 0.5	*	
1,2,3,7,8-PeCDD	· •		X 0.1	*	
1,2,3,4,7,8-HxCDD	•		X 0.1	*	
1,2,3,6,7,8-HxCDD			X 0.1	*	
1,2,3,7,8,9-HxCDD	0= 00		x 0.01	2.58e-01	
1,2,3,4,6,7,8-HpCDD	25.83	10	X 0.001	3.57e-01	
OCDD	356.89		X 0.1	*	
2,3,7,8-TCDF	*			· · · · · · · · · · · · · · · · · · ·	
1,2,3,7,8-PeCDF	*		x 0.05		
2,3,4,7,8-PeCDF	ranga 🛊 🔻 🔻		X 0.5	3.38e-01	
1,2,3,4,7,8-HxCDF	3.38		X 0.1	3.362-01	
1,2,3,6,7,8-HxCDF	•	•	X 0.1	\mathbb{I}_{+} , \mathbb{I}_{+}	
1,2,3,7,8,9-HxCDF	•		X 0.1	ਸ	
1,2,3,7,8,9-11CDF	sa ¹		X 0.1	*	
2,3,4,6,7,8-HxCDF	5.73		X 0.01	5.73e-02	
1,2,3,4,6,7,8-HpCDF	*		X 0.01	ta da antigara	
1,2,3,4,7,8,9-HpCDF	15.72		X 0.001	1.57e-02	
OCDF	15.72			का निर्व	
		:		*Total: 3-3566-00	
			· Paragraphic	1.02 e00	

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate (EPA/625/3-89/016, March 1989.

^{*} Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90



CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274111

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.12

Client Name: E&E-WA

Sample Wt/Vol: 11.84 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105201#6

Analysis Date: 20-JUL-99 Time: 14:57:27

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 11.29

	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	. (1)	RATIO (2)	(2)	RRF
	···	0.183	U		*	1.48
2,3,7,8-TCDD	*	0.183	-		. *	1.11
1,2,3,7,8-PeCDD	*	0.280	U	_	*	0.74
1,2,3,4,7,8-HxCDD	*	0.259	ט		*	1.10
1,2,3,6,7,8-HxCDD	. *	0.174	<u>U</u>		*	0.96
1,2,3,7,8,9-HxCDD	*	0.200	U			1.14
1,2,3,4,6,7,8-HpC	DD 8.306	0.178	•	1.10	1.001	1.11
OCDD	67.347	0.310		0.96	1.000	
2,3,7,8-TCDF	*	0.173	ט	*	*	1.15
1,2,3,7,8-PeCDF	.*	0.121	บ	*	*	0.98
2,3,4,7,8-PeCDF	.*	0.123	U	*	*	0.97
1,2,3,4,7,8-HxCDF	1.630	0.178	5	1.17	1.001	1.03
1,2,3,6,7,8-HxCDF	• •	0.133	Ū	, *	*	1.38
1,2,3,7,8,9-HxCDF	• •	0.211	U	*		0.87
2,3,4,6,7,8-HxCDF	*	0.156	U	*	*	1.18
1,2,3,4,6,7,8-HpC	ਹ ਦ 3.609	0.263	•	1.07	1.000	1.44
1,2,3,4,7,8,9-HpC	* דרי	0.370	บ	, *	*	1.02
OCDF	7.591	0.417		0.86	1.004	1.21
	nc *	0.183	ט	•		
Total Tetra-Dioxi		0.183	บ			
Total Penta-Dioxi	LIIS		ט			
Total Hexa-Dioxi		0.174	U			
Total Hepta-Diox:		0.178				
Total Tetra-Fura		0.173				
Total Penta-Fura	ns 15.528	0.123				
Total Hexa-Furan	s *	0.133	σ	•		
Total Hepta-Fura	ns 3.609	0.263			9	
(1) Oualifiers: U	and * - not de	etected; X	& I - E	MPC. C - us	e value	

(1) Qualifiers: U and * - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1



USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274111

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.12

Matrix (aqueous/solid/leachate): solid

TO SEPPORT T

Sample Wt/Vol: 11.84 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 20-JUL-99 Time: 14:57:27

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105201#6

Injection Volume(ul): 2.00

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 11.29

	CONCENTRATION	TEF (1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	* * * * * * * * 8.31 67.35 * * 1.63 * *	X 1.0 X 0.5 X 0.1 X 0.1 X 0.1 X 0.01 X 0.001 X 0.1 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1	CONCENTRATION * * * 8.31e-02 6.73e-02 * 1.63e-01 * *
2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	3.61 * 7.59	X 0.1 X 0.01 X 0.01 X 0.001	3.61e-02 7.59e-03 (D. 41349 Total: 5.527e-01 3.57 €01

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

* Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90



Form 1

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

CLIENT ID.

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.16

Client Name: E&E-WA

Sample Wt/Vol: 16.16

g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105201#9

Analysis Date: 20-JUL-99 Time: 17:23:50

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 23.81

•	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
0 555	*	0.091	U:	*	*	1.48
2,3,7,8-TCDD	•	0.102	U	*	*	1.11
1,2,3,7,8-PeCDD		0.145	ΰ.	*	* .	0.74
1,2,3,4,7,8-HxCDD	*	0.098	ับ .	*	*	1.10
1,2,3,6,7,8-HxCDD		0.112	Ū	*	*	0.96
1,2,3,7,8,9-HxCDD	•-	0.148		0.92	1.000	1.14
1,2,3,4,6,7,8-HpC	DD 1.091		u	0.96	1.000	1.11
OCDD	7.548	0.212 	L/16cCX	0.99	1.001	1.15
2,3,7,8-TCDF RIFER	ECOND COLUMN #	0.100	U	*	*	0.98
1,2,3,7,8-PecDr	T	0.076	ប	*	*	0.97
2,3,4,7,8-PeCDF	. *	0.077	ช	*	*	1.03
1,2,3,4,7,8-HxCDF	*	0.096	. ช		*	1.38
1,2,3,6,7,8-HxCDF	*	0.072	. บ	•	*	0.87
1,2,3,7,8,9-HxCDF	•	0.114	_		*	1.18
2,3,4,6,7,8-HxCDF	e de 🖈 🖈	0.084	Ū	_	* .	1.44
1,2,3,4,6,7,8-HpC	DF *	0.090	ט	_	*	1.02
1,2,3,4,7,8,9-HpC	DF *	0.127	U		*	1.21
OCDF	*	0.168	บ	*	-	
makan Dinas		0.091	U			
Total Tetra-Dioxi	: no *	0.102	υ.			
Total Penta-Diox:	ns 0.252	0.098		•		
Total Hexa-Dioxi						·
Total Hepta-Diox		0.100	ប			
Total Tetra-Fura		0.077	บ	·		
Total Penta-Fura		0.072	บ		•	
Total Hexa-Furan		0.072	บ			•
Total Hepta-Fura	ns	Veu. 0		EMPC. C - us	se value	

(1) Qualifiers: U and * - not detected; X & I - EMPC. C from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.



TS/SWL OK 22-JUL-	·1999	Page 1			
		USEPA - ITI			Page 8
•		AATS/SWOK, IN			NT ID
	2378-TC Use for	DF ANALYSIS I Sample and B	DATA SHEET Lank Resu	lts 9927	4113
Lab Name: Southwe	st Lab. of Oklaho	ma Episodo	e No.: 39	261	
Client Name: E&E-	AW		Lab Sam	ple ID: 39261	1.16
Matrix (aqueous/s	olid/leachate): s	olid Sam	ple Wt/Vo	1: 16.15 g o	mL: g
. Sample Receipt Da	te: 07/02/99	Init	ial Calib	ration Date:	05/13/9
Ext. Date: 07/06/	99		Instru	ment ID: 70S	
Analysis Date: 21	-JUL-99 Time: 16:	35:02	GC Cc	olumn ID: SP2	331
Extract Volume (u	L): 20.0	Sample	Data Fil	ename: S1042	30#9
Injection Volume	(uL): 2.0	Blank	Data Fi	lename: S1042	27#13
Dilution Factor:	1	Cal. Ver.	Data Fi	lename: S1042	30#2
Concentration Uni	ts (pg/L or ng/K	dry weight)	: ng/Kg	% Moisture:	23.81
ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	EMPC	ION ABUND. RATIO (1)	RRT (1)
2,3,7,8-TCDF	0.417	0.1407	. - .	0.73	1.001
	SPIKE	CONCENT.	RECOV.	ION ABUND.	RRT

NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

CONCENT. FOUND

742.94

547.60

1000

800

CONCENTRATION

INT. STANDARD

13C-2,3,7,8-TCDF

CLEANUP STANDARD

37C1-2,3,7,8-TCDD

68.45

RATIO (2)

1.16

TCDDF1I



USEPA, ITI 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274113

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.16

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 16.16 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 20-JUL-99 Time: 17:23:50

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105201#9

Injection Volume (ul): 2.00

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 23.81

	CONCENTRATION	TEF(1)	TEF-ADJUSTE CONCENTRATION	-
2,3,7,8-TCDD	*	X 1.0	*	
1,2,3,7,8-PeCDD	#	X 0.5	. •	• '
1,2,3,4,7,8-HxCDD	*	X 0.1	.★.	
1,2,3,6,7,8-HxCDD	±	X 0.1	\$	
1,2,3,7,8,9-HxCDD	**	X 0.1	*	
1,2,3,4,6,7,8-HpCDD	1.09	X 0.01	ມ _{ິດ} 1.09e-02	- 4/95
OCDD	NO 7.55	X 0.001 -	9/3/71 7.55e-03	- 0.0419
2,3,7,8-TCDF	0.4170.38	X 0.1	3.83e-02	
1,2,3,7,8-PeCDF	*	X 0.05	*	
2,3,4,7,8-PeCDF	*	X 0.5		•
1,2,3,4,7,8-HxCDF	*	X 0.1	*	
1,2,3,6,7,8-HxCDF	*	X 0.1	*	
1,2,3,7,8,9-HxCDF	*	X 0.1	*	
2,3,4,6,7,8-HxCDF	*	X 0.1	. *	
1,2,3,4,6,7,8-HpCDF	*	X 0.01		
1,2,3,4,7,8,9-HpCDF	* · · · · ·	X 0.01	*	•
OCDF	*	X 0.001		,
		* T	otal: 9.082e-02	<u> </u>

- (1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'
 - * Total TEF is calculated by summing up all positively identified isomers of each homologous series.

 6/90

409 e-02

Form 1

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results CLIENT ID.

99274114

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.17

Client Name: E&E-WA

Sample Wt/Vol: 980 g or mL: mL

Matrix (aqueous/solid/leachate): aqueous Initial Calibration Date: 07-22-99

Sample Receipt Date: 07-02-99

Instrument ID: Autospec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Sample Data Filename: A105212#5

Analysis Date: 23-JUL-99 Time: 12:41:53 Blank Data Filename: A105209#9

Dilution Factor: 1

Cal. Ver. Data Filename: A105212#3

Concentration Units (pg/L or ng/Kg dry weight): pg/L

% Moisture:

	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
		7.185	บร	*	* ,	1.37
2,3,7,8-TCDD	*	8.081	บี่จี	*	*	1.17
1,2,3,7,8-PeCDD	*	7 7 7 7	כ ט	*	*	1.10
1,2,3,4,7,8-HxCDD		6.714	U 3	*	*	0.99
1,2,3,6,7,8-HxCDD	*	6.137	U	*	*	1.09
1,2,3,7,8,9-HxCDD		6.071	DEY U	1.18	1.000	1.21
1,2,3,4,6,7,8-HpCI	D 82.339	4.611	ABY U	0.90	1.000	1.28
OCDD	1037.870	8.595		* .	*	1.15
2,3,7,8-TCDF		9.639	<u>n</u> 2	*	*	1.01
1,2,3,7,8-PeCDF	*	5.047	υ Συ	*	*	1.07
2,3,4,7,8-PeCDF	*	4.730		1.18	1.001	1.16
1,2,3,4,7,8-HxCDF	11.583	7.189	75	*	*	1.08
1,2,3,6,7,8-HxCDF	*	7.180	02 02	*	*	1.14
1,2,3,7,8,9-HxCDF	*	11.485	บูว	*	*	1.13
2,3,4,6,7,8-HxCDF	*	9.034	. 25 	1.16	1.000	1.35
1,2,3,4,6,7,8-HpC	DF 32.134	5.919		1.10	*	1.40
1,2,3,4,7,8,9-HpC	DF *	9.575	.02	0.87	1.003	1.45
OCDF	122.027	9.004		0.67	1.005	,—•
Total Tetra-Dioxi	ns. *	7.185	U			
Total Penta-Dioxi		8.081	บ	•	•	
Total Hexa-Dioxin		6.137	Ū		•	
Total Hepta-Dioxi	ns 151.974	4.611				
Total Tetra-Furan	_	9.639	ט		e de la companya della companya della companya de la companya della companya dell	
Total Penta-Furar		4.730	U		•	
Total Hexa-Furans		7.180		*		•.
	- 20 124	5.919		* **		
Total Hepta-Furar	ndicates not de	etected; Th	e X & 1	indicates	EMPC. Th	ne C nee

from second column analysis. The B indicates possible blank contamination. (1) Qualifier U indicates no

(2) RRTs and ion ratios are specified in Tables 2 and 9, Method 1613.

RFP C500273T1



USEPA, 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274114

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.17

Matrix (aqueous/solid/leachate): aqueous

Sample Wt/Vol: 980

g or mL: mL

Sample Receipt Date: 07-02-99

Initial Calibration Date: 07-22-99

Ext. Date: 07-06-99 Shift:

Instrument ID: Autospec

Analysis Date: 23-JUL-99 Time: 12:41:53

GC Column ID: DB-5

Extract Volume (ul): 20.0

Sample Data Filename: A105212#5

Injection Volume(v1): 2.00

Blank Data Filename: A105209#9

Dilution Factor: 1

Cal. Ver. Data Filename: A105212#3

Concentration Units (pg/L or ng/Kg dry weight): pg/L % Moisture:

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD 0CDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF	* * * * * * * * * * * * *	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01	* * * * * * * * * * * * *	ठ नीउदिव ठ नीउदिव
OCDF	122.03		م ایرامه otal: 6.6898700 ۱٬60 e	

- (1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.
 - * Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90

Form 1

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274115

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.13

Client Name: E&E-WA

Sample Wt/Vol: 15.78 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105201#7

Analysis Date: 20-JUL-99 Time: 15:46:15

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 8.64

		DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	CONCENTRATION FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
			บ	. *	*	1.48
2,3,7,8-TCDD	*	0.116	ָ ד		* :	1.11
1,2,3,7,8-PeCDD	*	0.187			*	0.74
1,2,3,4,7,8-HxCDD	· · · · · · · · · · · · · · · · · · ·	0.154	์ บ	•	. *	1.10
1,2,3,6,7,8-HxCDD	nata e na Konton 🖣 na	0.104	_		*	0.96
1,2,3,7,8,9-HxCDD		0.119	ប	1.00	1.001	1.14
1,2,3,4,6,7,8-HpC	DD 1.833	0.281		~ 0.98	1.000	1.11
OCDD	15.904	0.296		. U. 96	*	1.15
2,3,7,8-TCDF	★	0.120	. U	-	•	0.98
1,2,3,7,8-PeCDF	range in the state of the state	0.112	. บ		*	0.97
2,3,4,7,8-PeCDF	*	0.113	บ	- 40	1.000	1.03
1,2,3,4,7,8-HxCDF	1.022	0.262	- 3	1.40	1.000	1.38
1,2,3,6,7,8-HxCDF	*	0.196	U-	* .		0.87
1,2,3,7,8,9-HxCDE	*	0.311	U	*	_	1.18
2,3,4,6,7,8-HxCDI	*	0.230	U			1.44
1,2,3,4,6,7,8-Hp0	O.627	0.183	. 5	0.80	1.000	1.02
1,2,3,4,7,8,9-Hp(ODF *	0.258	บ	*		1.02
OCDF	1.129	0.326		0.86	1.004	1.21
	*	0.116	U			.·
Total Tetra-Diox	ins *	0.187	บ			
Total Penta-Diox	ns 0.677			•	,	
Total Hexa-Dioxi	= :		100			
Total Hepta-Diox			20		3	
Total Tetra-Fura			1.75	the Mark State		
Total Penta-Fura		0.115				
Total Hexa-Furan	4.008	0.193	TT			1.1.
Total Hepta-Fura	ns "			EMPC. C - u	se value	
/// Analifiare [i and * - not Q	etected; A	Œ <u> </u>			

(1) Qualifiers: U and * - not detec from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.

Page 6 of 16

AATS/SWOK, INC. 2378-TCDF ANALYSIS DATA SHEET Use for Sample and Blank Results CLIENT ID

99274115

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.13

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 15.78 g or mL: g

Sample Receipt Date: 07/02/99

Initial Calibration Date: 05/13/99

Ext. Date: 07/06/99

Instrument ID: 70S

Analysis Date: 21-JUL-99 Time: 15:21:19

GC Column ID: SP2331

% Moisture: 8.64

Extract Volume (uL): 20.0

Sample Data Filename: S104230#7

Injection Volume (uL): 2.0

Blank Data Filename: S104227#13

Dilution Factor: 1

Cal. Ver. Data Filename: S104230#2

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg ION ABUND. RRT DETECTION EMPC CONCENTRATION RATIO (1) (1)LIMIT FOUND ANALYTE

2,3,7,8-TCDF

0.1662

ION ABUND. RRT RECOV. CONCENT. SPIKE RATIO (2) FOUND (1) INT. STANDARD CONCENTRATION

62.59 0.77 625.86 1000 13C-2,3,7,8-TCDF

CLEANUP STANDARD

0.99 800 406.53 50.82 37C1-2,3,7,8-TCDD

NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

TCDDF1I

USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274115

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Analysis Date: 20-JUL-99 Time: 15:46:15

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.13

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 15.78 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105201#7

Injection Volume(u1): 2.00

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 8.64

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	•
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD 0CDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF	1.83 1.83 1.5 90 * * 1.02 * * 0.63	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.01 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01	* * * * * 1.83e-02 1.59e-02 * * 1.02e-01 * * 6.27e-03 *	- O 4/3/29
1,2,3,4,7,8,9-HpCDF OCDF	1.13	X 0.001	1.13e-03 e \s	01

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

* Total TEF is calculated by summing up all positively identified isomers of each homologous series.

9/3/25

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274116

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39261

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39261.14

Client Name: E&E-WA

Sample Wt/Vol: 14.85 g or mL: g.

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column: DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105201#8

Analysis Date: 20-JUL-99 Time: 16:35:02

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 6.82

C	ONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
2,3,7,8-TCDD	, , , , , ,	0.099	Ū	*	*	1.48
1,2,3,7,8-PeCDD	*	0.125	U	*	*	1.11
1,2,3,4,7,8-HxCDD	*	0.135	Ū	*	*	0.74
1,2,3,6,7,8-HxCDD	*	0.091	ד	*	*	1.10
1,2,3,7,8,9-HxCDD	*	0.104	ט	*	*	0.96
1,2,3,4,6,7,8-HpCDI	1.014	0.194	٠.	1.14	1.001	1.14
OCDD	9.754	0.237	· U	0.93	1.000	1.11
2,3,7,8-TCDF	*	0.162	Ū	*	*	1.15
1,2,3,7,8-PeCDF	*	0.113	ט	*	*	0.98
2,3,4,7,8-PeCDF	*	0.114	U	* .	★-	0.97
1,2,3,4,7,8-HxCDF	1.282	0.187	ゴ	1.19	1.001	1.03
1,2,3,6,7,8-HxCDF	*	0.140	์ ซ	*	*	1.38
1,2,3,7,8,9-HxCDF	*	0.222	υ 🦠	*	*	0.87
2,3,4,6,7,8-HxCDF	,. *	0.164	U -	* *	*	1.18
1,2,3,4,6,7,8-HpCD	F 2.034	0.126	• •	1.08	1.000	1.44
1,2,3,4,7,8,9-HpCD		0.177	ט	. *	*	1.02
OCDF	0.925	0.279	O	1.07	1.003	1.21
Total Tetra-Dioxin	s *	0.099	ט			
Total Penta-Dioxin		0.125	บ			
Total Hexa-Dioxins	•	0.091	ָּט.		•	
Total Hepta-Dioxin		0.194				
Total Tetra-Furans		0.162	U	•		
Total Penta-Furans		0.114			•	
Total Hexa-Furans	3.311	0.140		•		
Total Hepta-Furans	-	0.126		•		•
/=\ 0 -=]		tosted. Y	c. T _ 1	TMPC C - 115	e value	

(1) Qualifiers: U and * - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.



NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

FOUND

582.74

550.98

SPIKE

CONCENTRATION

1000

800

INT. STANDARD

13C-2,3,7,8-TCDF

37C1-2,3,7,8-TCDD

CLEANUP STANDARD

TCDDF1I

(1)

0.99

RATIO (2)

0.73

윰

58.27

68.87

USEPA, ITI 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274116

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.14

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 14.85 g or mL: g

Sample Receipt Date: 07-02-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 20-JUL-99 Time: 16:35:02

GC Column ID: DB-5

Extract Volume (ul): 20.0

Sample Data Filename: A105201#8

Injection Volume(ul): 2.00

Blank Data Filename: A105201#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105201#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 6.82

			*	
	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	
•				
2,3,7,8-TCDD	*	X 1.0	. *	
1,2,3,7,8-PeCDD	*	X 0.5	*	
1,2,3,4,7,8-HxCDD	*	x 0.1	#	
1,2,3,6,7,8-HxCDD	*	X 0.1	*	
1,2,3,7,8,9-HxCDD	*	X 0.1	*	
1,2,3,4,6,7,8-HpCDD	1.01	X 0.01	∧© 1.01e-02	0 9/3/95
OCDD	NO 9.75	X 0.001	9.75e-03	4,70
2,3,7,8-TCDF	*	X 0.1	*	
1,2,3,7,8-PeCDF	*	X 0.05	*	
2,3,4,7,8-PeCDF	*	X 0.5	*	
1,2,3,4,7,8-HxCDF	1.28	X 0.1	1.28e-01	
1,2,3,6,7,8-HxCDF	*	X 0.1	• •	,
1,2,3,7,8,9-HxCDF	*	X 0.1	*	•
2,3,4,6,7,8-HxCDF	*	X 0.1	· · · · · · · · · · · · · · · · · · ·	•
1,2,3,4,6,7,8-HpCDF	2.03	X 0.01	2.03e-02	•
1,2,3,4,7,8,9-HpCDF	*	X 0.01	*	
OCDF	0.93	X 0.001	9.25e-04	
	•	*T	0 9/3/2, otal: 5.185e-01	
		_	1.59e-	O (

- (1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate (EPA/625/3-89/016, March 1989.'
 - * Total TEF is calculated by summing up all positively identified isomers of each homologous series.

 6/90

Form 1

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99274117

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39261

Lab Code: SWL Case No.:

SDG No .:

Lab Sample ID: 39261.15

Client Name: E&E-WA

Sample Wt/Vol: 1000

g or mL: mL

Matrix (aqueous/solid/leachate): aqueous Initial Calibration Date: 07-22-99

Sample Receipt Date: 07-02-99

Instrument ID: AutoSpec

Ext. Date: 07-06-99

GC Column:DB-5

Ext. Vol(u1):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105209#8

Analysis Date: 22-JUL-99 Time: 16:47:55 Blank Data Filename: A105209#9

Dilution Factor: 1

Cal. Ver. Data Filename: A105209#1

Concentration Units (pg/L or ng/Kg dry weight): pg/L

% Moisture:

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual.	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
•	•	3.111	ប	*	*	1.37
2,3,7,8-TCDD	*		บ	* *	*	1.17
1,2,3,7,8-PeCDD		2.122	Ū	*	* ,	1.10
1,2,3,4,7,8-HxCDD	*	2.400	์ บ	*	*	0.99
1,2,3,6,7,8-HxCDD	* .	2.220	ប	*	*	1.09
1,2,3,7,8,9-HxCDD	*	2.181	น	1.04	1.000	1.21
1,2,3,4,6,7,8-HpC	DD 43.473	3.227		0.95	1.000	1.28
OCDD	515. <u>9</u> 80	2.810	<u>u</u>	U.95	*	1.15
2,3,7,8-TCDF	*	3.973	บ.		•	1.01
1,2,3,7,8-PeCDF	*	1.898	. U		*	1.07
2,3,4,7,8-PeCDF	*	1.764	. D	•	*	1.16
1,2,3,4,7,8-HxCDF	*	2.085	U	*	*	1.08
1,2,3,6,7,8-HxCDF	*	2.096	U ·			1.14
1,2,3,7,8,9-HxCDF	• • •	2.642	σ	*	*	1.13
2,3,4,6,7,8-HxCDF	• *	2.008	Ü	. 		1.35
1,2,3,4,6,7,8-HpC	DF 4.542	2.641	典力	1.58	1.000	1.40
1,2,3,4,7,8,9-HpC	DF *	3.220	U		*	1.45
OCDF	16.634	3.516		0.86	1.004	1.45
Total Tetra-Dioxi	ins *	3.111	U			
Total Penta-Dioxi	ins *	2.122	ַס		•	
Total Hexa-Dioxi	ns *	2.220	Ū			
Total Hepta-Diox	ins 70.980	3.227		•		
Total Tetra-Fura		3.973	ט י			٠.
Total Penta-Fura		1.764	σ	and the second		•
		2.096	U		•	
Total Hexa-Furan		2 641	ט			*
Total Hepta-Fura		etected. Th	1 3 Y a	indicates	EMPC. The	. C nee

(1) Qualifier U indicates not detected; The X & I indicates EMPC. The C needs value from second column analysis. The B indicates possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 2 and 9, Method 1613.

RFP C500273T1



EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99274117

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39261

Client Name: E&E-WA

Lab Sample ID: 39261.15

Matrix (aqueous/solid/leachate): aqueous Sample Wt/Vol: 1000 g or mL: mL

Sample Receipt Date: 07-02-99

Initial Calibration Date: 07-22-99

Ext. Date: 07-06-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 22-JUL-99 Time: 16:47:55

GC Column ID: DB-5

Extract Volume (ul): 20.0

Sample Data Filename: A105209#8

Injection Volume(ul): 2.00

Blank Data Filename: A105209#9

Dilution Factor: 1

Cal. Ver. Data Filename: A105209#1

Concentration Units (pg/L or ng/Kg dry weight): pg/L % Moisture:

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	
2,3,7,8-TCDD 1,2,3,7,8-PeCDD	*	X 1.0 X 0.5	*	
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD	*	X 0.1 X 0.1	*	
1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD	√D 43.47	νο ^X 0.1	4.35e-01	@ 9/3/99
OCDD 2,3,7,8-TCDF	μη <u>515.98</u> *	X 0.01 X 0.1	5.16e-01	۲۰۱۱ م
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF	*	X 0.05 X 0.5	*	
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF	*	X 0.1 X 0.1 X 0.1	*	
1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF	* *	X 0.1 X 0.1 X 0.01	* 4.54e-02	
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	4.54 * 16.63	X 0.01 X 0.001	1.66e-02	••
OCDF	10.03	•	tal: 1 .288e+00	
		. –	1-20-e-07	<u>.</u>

- (1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.
 - * Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90





ecology and environment, inc.

International Specialists in the Environment

1500 First Interstate Center, 999 Third Avenue Seattle, Washington 98104 Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE:

August 26, 1999

TO:

Mark Woodke, START-Project Manager, Seattle, WA

FROM:

David Ikeda, Chemist, E & E, Seattle, WA

THRU:

Lestta Dahlhoff, Chemist, E & E, Seattle, WA

SUBJ:

Organic Data Quality Assurance Review, Wenatchee Brownfields Site,

Wenatchee, Washington

REF:

TDD: 98-11-0007

PAN: CK-07-01-SI-DM

The data quality assurance review of two waters sampless and eight soil samples collected from the Wenatchee Brownfields site located in Wenatchee, Washington, has been completed. Analysis for Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) following EPA Method 8290 for soil samples and EPA Method 1613B for water samples were performed by Southwest Laboratory of Oklahoma, Broken Arrow, Oklahoma.

The samples were numbered:

Soil:

99284154

99284158

99284160

99284178

99284155

99284159

99284177

99284179

Water:

99284156

99284161

Data Qualifications:

I Holding Time: Acceptable.

The samples were collected July 6, 7, and 8, 1999; maintained at 4°C (± 2°C); extracted by July 30, 1999; and analyzed by August 5, 1999, therefore meeting QC criteria of less than 30 days for soil samples and 7 days for water samples between collection and extraction and less than 45 days for soil samples and 40 days for water samples between extraction and analysis.

II Instrument Performance: Acceptable.

A performance check solution was analyzed at the beginning of each 12-hour sample analysis period. The minimum resolving power of 10,000 was attained. The valley between 2,3,7,8-tetrachlorodibenzodioxin (2,3,7,8-TCDD) and the peaks representing all other TCDD isomers was $\leq 25 \%$ in the window defining mix solution. All ion abundance and retention time criteria were met in all calibration standards.

III Calibration

A. Initial Calibration: Acceptable.

A 5-point initial calibration was performed with all Relative Standard Deviations (RSDs) values less than 20 % for the unlabeled target analytes and less than 30 % for the labeled internal standards. All ion abundance ratios, signal-to-noise (s/n) ratios, and retention times were within method QC limits.

B. Continuing Calibration: Acceptable.

A continuing calibration was analyzed at the start of each 12-hour period. The percent valley between 2,3,7,8-TCDD and the closest tetrachlorodibenzofuran (TCDF) isomer was less than 25 %. The retention times for all of the furan and dioxin homologues were established and properly labeled from the first to the last eluters. All ion abundance and s/n ratios were within method QC limits. All percent differences values were less than 30 % for the labeled internal standards and less than 20 % for the unlabeled target analytes.

IV Compound Quantitation and Detection Limits: Acceptable.

All of the samples were analyzed at the project required quantitation limits. Some of the totals reported were corrected by the reviewer due to adjustments that had to be made because of blank contamination. All of the compounds, except TCDF, were calculated off the primary column, DB5. All TCDF concentrations were confirmed and quantitated by a second column, SP2331. All of the detected target compounds were within the linear calibration range.

V Blanks: Satisfactory.

The frequency of analysis of laboratory blanks was met. No target analytes were detected in any blanks, except for the following:

BLANK ID	MATRIX	COMPOUND	CONC.	ASSOCIATED SAMPLES
DBLK2	Water	OCDD	10.246 pg/L	99284156 and 99284161
DBLK3	Soil	1,2,3,4,6,7,8-HpCDD	0.669 ng/kg	99284154RE and 99284158RE
DBLK3	Soil	OCDD	8.094 ng/kg	99284154RE and 99284158RE

CONC. = Concentration.

HpCDD = Heptachlorodibenzodioxin.

OCDD = Octachlorodibenzodioxin.

The OCDD detected in the associated samples 992844156 and 992844161 were qualified as non-detect, "U", due to the concentration being less than 5 times the value in the blank. The TEF factor was also corrected by the reviewer because of blank contamination.

VI Analytical Sequence: Acceptable.

All of the standards, blanks, samples and QC samples were analyzed in accordance with the method-specified analytical sequence.

VII Internal Standards: Satisfactory.

All internal standard (IS) ion abundance ratios were within method QC limits. All IS percent recovery (%R) values were within the QC limits, except:

SAMPLE ID	MATRIX	INTERNAL STANDARD	%R	QC LIMITS
99284154RE	Soil	¹³ C-2,3,7,8-TCDF	36.05	40 - 135 %
99284158RE	Soil	¹³ C-OCDD	21.93	40 - 135 %
99284159	Soil	¹³ C-1,2,3,4,6,7,8-HpCDD	39.81	40 - 135 %
99284159	Soil	¹³ C-OCDD	31.13	40 - 135 %
99284177	Soil	¹³ C-OCDD	22.45	40 - 135 %
99284178	Soil	¹³ C-OCDD	38.5 4	40 - 135 %
99284178	Soil	¹³ C-2,3,7,8-TCDF	34.00	40 - 135 %
99284179	Soil	¹³ C-2,3,7,8-TCDF	26.04	40 - 135 %

TCDF = Tetrachlorodibenzofuran.

HpCDD = Heptachlorodibenzodioxon.

OCDD = Octachlorodibenzodioxon.

Quantitation limits and positive results for associated analytes were flagged as estimated (UJ or J), except for 2,3,7,8-TCDF in sample 99284154RE. The TCDF result for sample 99284154RE was quantitated by a second column, and the IS was within QC limits.

VI Surrogate Recoveries: Not Applicable.

Surrogates were not required for this method. Clean-up standard 37Cl-2,3,7,8-TCDD was added to all samples and QC samples. The clean-up standard percent recovery values were acceptable.

VII Duplicate Sample Analysis: Not Applicable.

Duplicate sample analyses were not performed. No action was taken by the reviewer.

VIII Matrix Spike/Matrix Spike Duplicates: Satisfactory.

Matrix spike percent spike recovery (%R) values were within QC limits, except:

SAMPLE ID	MATRIX	ANALYTE	%R	QC LIMITS
99284154MS	Soil '	2,3,4,6,7,8-HxCDF	44.5	50 - 150 %

HxCDF = Hexachlorodibenzofuran.

The quantitation limit for 2,3,4,6,7,8-HxCDF was flagged as estimated (UJ) in sample 99284154RE.

The relative percent difference (RPD) values between the matrix spike and matrix spike duplicate were within QC limits, except:

SAMPLE ID	MATRIX	ANALYTE	RPD	QC LIMITS
99284158	Soil	1,2,3,4,7,8-HxCDF	76.3	50

HxCDF = Hexachlorodibenzofuran.

The sample results for 1,2,3,4,7,8-HxCDF were flagged as estimated (J) in sample 99284158.

IX Compound Identification: Acceptable.

For analytes with isotopically labeled standards, the retention times of the sample quantitation ions maximized within -1 to +3 seconds of the isotopically labeled standard ions. Several samples had ratios for the quantitation ion integrated ion currents outside the method QC limits, the laboratory qualified these sample results as estimated maximum possible concentrations (X or I). The reviewer changed the laboratory qualifiers "X" and "I" to "J" (estimated).

X Laboratory Control Sample (LCS) Analyses: Acceptable.

A spiked blank was extracted and analyzed with each sample delivery group (SDG). The percent recovery values for the target compounds and internal standards for the LCS met the acceptance criteria. None of the data were qualified on this basis.

XI Laboratory Contact: Required.

The laboratory was contacted on August 25, 1999 (see attached telephone log).

XII Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in EPA Method 8290 and the OSWER Directive "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan and Data Validation Procedures" (EPA/540/G-90/004). Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

altur bi sala

- U The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity because the reported concentrations were less than the contract required detection limits or because quality control criteria limits were not met.
- UJ The material was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.

TELEPHONE CONVERSATION

Person Talked T	TO JAYANT S	HRINGAR PL	IRE, PH	2	
Company <u></u> <i>幺</i> ω	LABORATORY OF	OKLAHOMA		Date <u>25 A</u>	<u> Lucust 1</u> 999
Phone Number_	918-251-2858	(F) X 25°	79	Time <u>(31</u> 8	
Job Name				Job No3	933.4
CONVERSATIO	N		. · . · . · . · . · . · . · . · . · . ·	· · · · · · · · · · · · · · · · · · ·	
	XTRACTION LOGS	FROM 7	136/99		
	Sample 206	•			t .
3) SAMPLE	39334.0123 (99:	28415422)	TOTAL P	PENTA FURAN	/ REPORTED
DATA	DOSS NOT MA	TCH THE	SPREAD	SHEET.	
•					
		. •			
	1+2) FA	YLD -0K			
ACTION	3) See	FAX O	alzelaa Shezt co	or count	27102
DISTRIBUTION					
		ъ Ву ,		rol A	Veelo
		Dy <u>s</u>	Davis	AKIO II	CEDA D

Form 1

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284154 RE

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39334

Lab Code: SWL Case No.: SDG No.: Lab Sample ID: 39334.01RE

Client Name: E&E-WA

Sample Wt/Vol: 10.57 g or mL: g

Matrix (aqueous/solid/leachate): solid Initial Calibration Date: 07/01/99

Sample Receipt Date: 07/09/99

Instrument ID: AutoSpec

Ext. Date: 07/30/99

GC Column:DB-5

Ext. Vol(u1):20.0

Inj. Vol(u1):2.0 Sample Data Filename: A105252#5

Analysis Date: 5-AUG-99 Time: 13:11:21 Blank Data Filename: A105252#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105250#14

	CONCENTRATION		Qual.	ION ABUND.		MEAN RRF
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
0 0 7 0 7000	or and the second	0.242	U	*	*	1.48
2,3,7,8-TCDD	*	0.528	Ū	*	*	1.11
1,2,3,7,8-PeCDD	*	0.567	Ū	*	*	0.74
1,2,3,4,7,8-HxCDD	*	0.382	Ū	*	*	1.10
1,2,3,6,7,8-HxCDD		0.438	Ū	*	*	0.96
1,2,3,7,8,9-HxCDD		0.661		1.02	1.000	1.14
1,2,3,4,6,7,8-HpC		0.684		0.82	1.000	1.11
OCDD	49.865 *	0.365	U	*	* .	1.15
2,3,7,8-TCDF		0.516	Ü	*	· •	0.98
1,2,3,7,8-PeCDF	*		<u> </u>	0.90	1.029	0.97
2,3,4,7,8-PeCDF	0,359	0.522	7	1.07	1.000	1.03
1,2,3,4,7,8-HxCDF	13.630	0.989		0.97	1.006	1.38
1,2,3,6,7,8-HxCDF		0.742	· Ţ	• ÷ • • • • • • • • • • • • • • • • • •	*	0.87
1,2,3,7,8,9-HxCDF		1.174		*	*	1.18
2,3,4,6,7,8-HxCDF	*	0.867	υS	0.95	1.000	1.44
1,2,3,4,6,7,8-HpC	DF 1.834	0.621	**	U.95	*	1.02
1,2,3,4,7,8,9-HpC	CDF *	0.875	U	0.90	1.003	1.21
OCDF	4.353	0.736	•	0.90	1.005	1.21
makal Makas Diami	*	0.242	บ			
Total Tetra-Dioxi		0.528	U	• •		
Total Penta-Diox:		0.382		•		
Total Hexa-Dioxi		0.661				
Total Hepta-Diox		0.365				
Total Tetra-Fura	04 040	0.522				
Total Penta-Fura		0.742	U		• •	
Total Hexa-Furan	S	0.621	•			
Total Hepta-Fura	ns 1.834	0.02I 	. T F	MPC . C - 115	se value	•
(1) Qualifiers: U	and * - not de	etected; A o	olo bla	nk contami	nation.	
from second c	olumn analysis	. B - Dossii	Plec l	1 and 8. Me	ethod 8290	. 8290F1
(2) RRTs and ion	ratios are spec	Cilled in To	TDIES I	1 4114 07 11		

EPA SAMPLE NO.

Page 5 of 14

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284154 RE

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Client Name: E&E-WA

Matrix (aqueous/solid/leachate): solid

Sample Receipt Date: 07/09/99

Ext. Date: 07/30/99 Shift:

Analysis Date: 5-AUG-99 Time: 13:11:21 GC Column ID: DB-5

Extract Volume(ul): 20.0

Romied Little

Injection Volume(u1): 2.00

Dilution Factor: 1

Episode No.: 39334

Lab Sample ID: 39334.01RE

Sample Wt/Vol: 10.57 g or mL: g

Initial Calibration Date: 07/01/99

Instrument ID: AutoSpec

Sample Data Filename: A105252#5

Blank Data Filename: A105252#2

Cal. Ver. Data Filename: A105250#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 6.81

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD 0CDD 2,3,7,8-TCDF 1,2,3,4,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF	* * 5.15 49.87 * 0.36 13.63 0.90 * 1.83 4.35	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01	* 5.15e-02 4.99e-02 * 1.79e-01 1.36e+00 9.02e-02 * 1.83e-02 4.35e-03

Total: 1.756e+00

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284155

Episode No.: 39334 Lab Name: Southwest Lab. of Oklahoma

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39334.04

Client Name: E&E-WA

Sample Wt/Vol: 14.66

g or mL: g

Matrix (aqueous/solid/leachate): solid Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-09-99

Instrument ID: AutoSpec

Ext. Date: 07-09-99

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Sample Data Filename: A105224#3

Analysis Date: 28-JUL-99 Time: 22:54:41 Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 5.50

	CONCENTRATION	N DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
2,3,7,8-TCDD	*	0.249	บ	*	*	1.48
1,2,3,7,8-PeCDD	*	0.357	U	* *	*	1.11
1,2,3,4,7,8-HxCDD	*	0.357	U	*	*	0.74
1,2,3,4,7,8-HXCDD	*	0.240	Ū	*	*	1.10
1,2,3,6,7,8-HxCDD	*	0.276	บ	*	*	0.96
1,2,3,7,8,9-HxCDD	*	0.400	Ū	*	* *	1.14
1,2,3,4,6,7,8-HpC	1.293		_	0.96	1.000	1.11
OCDD	1.293		· U	*	*	1.15
2,3,7,8-TCDF	*		U	*	. *	0.98
1,2,3,7,8-PeCDF	*		Ū	*	, *	0.97
2,3,4,7,8-PeCDF			Ū	* *	*	1.03
1,2,3,4,7,8-HxCDF	·		บ	*	*	1.38
1,2,3,6,7,8-HxCDF			บ	*	* *	0.87
1,2,3,7,8,9-HxCDF	• *		บ	*	*	1.18
2,3,4,6,7,8-HxCDF			. п	* *	*	1.44
1,2,3,4,6,7,8-HpC	DF *		บ	*	*	1.02
1,2,3,4,7,8,9-HpC	DF *		. บ		*	1.21
OCDF	•	0.351	U			
Total Tetra-Dioxi	.ns	0.249	บ			
Total Penta-Dioxi		* 0.357	, U			•
Total Hexa-Dioxir		* 0.240	U	•		
Total Hepta-Diox		* 0.400	บ	•		
Total Tetra-Furar		* 0.271	บ			
Total Penta-Furar		* 0.233	U			
Total Hexa-Furans		* 0.174	U	•		
Total Hepta-Fura		* 0.218	บ	•		
(1) Ovalifiers: II		détected: X	& I - 1	EMPC. C - us	e value	

(1) Qualifiers: U and * - not detected; X & I - EMPC. C from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1

USEPA, 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284155

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39334

Client Name: E&E-WA

Lab Sample ID: 39334.04

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol. 14.66 g or mL: g

Sample Receipt Date: 07-09-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-09-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 28-JUL-99 Time: 22:54:41

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105224#3

Injection Volume(ul): 2.00

герсурунд двен

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

% Moisture: 5.50 Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION
·	*	x 1.0	*
2,3,7,8-TCDD	•	x 0.5	` *
1,2,3,7,8-PeCDD	<u>.</u>	x 0.1	*
1,2,3,4,7,8-HxCDD	*	x 0.1	***
1,2,3,6,7,8-HxCDD	•	x 0.1	*
1,2,3,7,8,9-HxCDD	•	x 0.01	*
1,2,3,4,6,7,8-HpCDD	1.29	X 0.001	1.29e-03
OCDD	*	x 0.1	*
2,3,7,8-TCDF	<u>.</u> .	X 0.05	*
1,2,3,7,8-PeCDF	· ·	x 0.5	*
2,3,4,7,8-PeCDF	*	X 0.1	*
1,2,3,4,7,8-HxCDF	•	x 0.1	* '
1,2,3,6,7,8-HxCDF		x 0.1	*
1,2,3,7,8,9-HxCDF		x 0.1	*
2,3,4,6,7,8-HxCDF	· · · · · · · · · · · · · · · · · · ·	X 0.01	* * * * * * * * * * * * * * * * * * *
1,2,3,4,6,7,8-HpCDF	*		*
1,2,3,4,7,8,9-HpCDF		X 0.01	*
OCDF	*	X 0.001	•

Total: 1.293e-03

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.

Form 1

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39334

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39334.05

Client Name: E&E-WA

Sample Wt/Vol: 1050 g or mL: mL

Matrix (aqueous/solid/leachate): aqueous Initial Calibration Date: 07/22/99

Sample Receipt Date: 07/09/99

Instrument ID: AutoSpec

Ext. Date: 07/14/99

GC Column: DB-5

Ext. Vol(u1):20.0

Inj. Vol(u1):1.0

Sample Data Filename: A105222#6

Analysis Date: 28-JUL-99 Time: 13:37:16

Blank Data Filename: A105222#4

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#2

Concentration Units (pg/L or ng/Kg dry weight): pg/L % Moisture:

	CONCENTRATION	DETECTION	Qual. (1)	ION ABUND. RATIO (2)	RRT	MEAN RRF
ANALYTE	FOUND	LIMIT	(1)	KATIO (2)	(2)	
0 2 7 0 MODD	*	3.871	U	*	*	1.37
2,3,7,8-TCDD	*	3.886	Ū.	*	. *	1.17
1,2,3,7,8-PeCDD	*	5.224	Ü	*	, *	1.10
1,2,3,4,7,8-HxCDD		4.515	Ü	*	*	0.99
1,2,3,6,7,8-HxCDD		4.530	บั	*	*	1.09
1,2,3,7,8,9-HxCDD	•	3.437	บ	*	*	1.21
1,2,3,4,6,7,8-HpC	עט	3.939	ů	0.83	1.000	1.28
OCDD	12.157	3.966	. U	*	*	1.15
2,3,7,8-TCDF	*	2.185	Ü	*	*	1.01
1,2,3,7,8-PeCDF	*	2.185	Ü	*	*	1.07
2,3,4,7,8-PeCDF			Ü	*	*	1.16
1,2,3,4,7,8-HxCDF		3.064	Ü	*	*	1.08
1,2,3,6,7,8-HxCDF		2.977	Ü	*	*	1.14
1,2,3,7,8,9-HxCDF		4.254	=	•	*	1.13
2,3,4,6,7,8-HxCDF		3.267	U	· *	*	1.35
1,2,3,4,6,7,8-HpC		2.912	Ŭ	*		1.40
1,2,3,4,7,8,9-HpC	DF *	4.018	. U		*	1.45
OCDF	*	3.355	Ŭ	· *		1.45
	*	3.871	U	-		
Total Tetra-Dioxi		3.886	Ü			
Total Penta-Dioxi		4.515	Ū			
Total Hexa-Dioxir	ıs	3.437	Ŭ			
Total Hepta-Dioxi	ıns	3.966	Ū	,		
Total Tetra-Furar	IS	2.017	· U		•	
Total Penta-Fura	ıs ,		U		•	
Total Hexa-Furans	5	2.977	. U		•	
Total Hepta-Fura	ns *	2.912	. V C T	indicator	EMPC The	C need

(1) Qualifier U indicates not detected; The X & I indicates EMPC. The C needs value from second column analysis. The B indicates possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 2 and 9, Method 1613.

ITD USEPA, 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284156

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39334

Client Name: E&E-WA

Lab Sample ID: 39334.05

Matrix (aqueous/solid/leachate): aqueous

Sample Wt/Vol: 1050 g or mL: mL

Sample Receipt Date: 07/09/99

Initial Calibration Date: 07/22/99

Instrument ID: AutoSpec

Ext. Date: 07/14/99 Shift:

GC Column ID: DB-5

Analysis Date: 28-JUL-99 Time: 13:37:16

Sample Data Filename: A105222#6

Extract Volume(ul): 20.0

Blank Data Filename: A105222#4

Injection Volume(ul): 2.00

Cal. Ver. Data Filename: A105222#2

Dilution Factor: 1

Concentration Units (pg/L or ng/Kg dry weight): pg/L % Moisture:

	CONCENTRATION TH		TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD 0CDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF	* * * * * * * * * * * * * * * * * * *	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.01 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01	# # # # # # # # # # # # # # # # # # #
		· **	Total: 1.216e-02 NO

- (1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.
 - * Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90

Form 1

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284158 RE

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39334

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39334.06RE

Client Name: E&E-WA

Sample Wt/Vol: 10.46

g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07/01/99

Sample Receipt Date: 07/09/99

Instrument ID: AutoSpec

Ext. Date: 07/30/99

GC Column: DB-5

Ext. Vol(u1):20.0

Inj. Vol(ul):2.0

Sample Data File name: A105253#1

Analysis Date: 5-AUG-99 Time: 17:31:06 Blank Data Filename: A105252#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105250#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 7.42

	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN RRF	
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	KKP	
·	•	0.331	U	*	. *	1.48	
2,3,7,8-TCDD	. *.	0.998	บ	*	*	1.11	
1,2,3,7,8-PeCDD		0.602	. ប	. *	. *	0.74	
1,2,3,4,7,8-HxCDD	_ ;	· ·	_	0.71	1.000	1.10	
1,2,3,6,7,8-HxCDD	1.712	0.405	ュ	1.99	1.009	0.96	ŧ
1,2,3,7,8,9-HxCDD	1.744	0.465	ゴ			1.14	
1,2,3,4,6,7,8-HpC	DD 51.369	1.705		1.09	1.000		
OCDD	386.564	1.608	5	0.91	1.001	1.11	
2,3,7,8-TCDF	**			0.79	1.002	1.15	
1,2,3,7,8-PeCDF	*	0.537	U .	*	*	0.98	
2,3,4,7,8-PeCDF	*	0.543	Ŭ	*	* *	0.97	
1,2,3,4,7,8-HxCDF	25.284	0.632	5	1.15	0.999	1.03	
1,2,3,6,7,8-HxCDF	•	0.474		1.33	1.003	1.38	
1,2,3,7,8,9-HxCDF	· ·	0.750	U	*	*	0.87	
2,3,4,6,7,8-HxCDF	3.079	0.554		1.12	1.019	1.18	•
1,2,3,4,6,7,8-HpC		1.446		0.98	1.000	1.44	
1,2,3,4,6,7,6-npc		2.036	ប	* .	*	1.02	
1,2,3,4,7,8,9-HpC	19.036	1.979	5	0.74	1.004	1.21	
OCDI							,
Total Tetra-Dioxi	ins 2.580	0.331					
Total Penta-Dioxi		0.998	U				
Total Hexa-Dioxi		0.405	•				
Total Hepta-Diox:	- -	1.705					
Total Tetra-Fura		0.397		•	•		
Total Penta-Fura	· - -	0.543	•				
Total Hexa-Furan	, •	0.474					
Total Hepta-Fura		1.446	•				•
(1) Qualifiers: U		tected: X A	. т – म	MPC. C - us	e value	,	
(1) Qualifiers: U	-lum - not de	P - possil	ole bla	nk contamin	ation.		

from second column analysis. B - possible blank contamination.

** SEL SECOND COLUMN

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.

ONANTI TATION

ANALYSIS FOR

USEPA, ITD 1DFB

Page 10 of 14

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284158 RE

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Client Name: E&E-WA

Matrix (aqueous/solid/leachate): solid

Sample Receipt Date: 07/09/99

Ext. Date: 07/30/99 Shift:

Analysis Date: 5-AUG-99 Time: 17:31:06

Extract Volume(u1): 20.0

Injection Volume(u1): 2.00

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Dilution Factor: 1

Episode No.: 39334

Lab Sample ID: 39334.06RE

Sample Wt/Vol: 10.46 g or mL: g

Initial Calibration Date: 07/01/99

Instrument ID: AutoSpec

GC Column ID: DB-5

Sample Data Tilename: A105253#1

Blank Data Filename: A105252#2

Cal. Ver. Data Filename: A105250#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 7.42

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	1.71 1.74 51.37 386.56 ND-2.00 ** 25.28 1.17 * 3.08 11.38 *	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.01 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01	1.71e-01 1.74e-01 5.14e-01 3.87e-01 2.00e-01

Total: 4.5320+00 @ 8/26/99 4:332 E+00

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.

NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

447.84

37C1-2,3,7,8-TCDD 800

55.98

TCDDF1I



0.99

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284159

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39334.09

Client Name: E&E-WA

Sample Wt/Vol: 14.51

g or mL: g

Matrix (aqueous/solid/leachate): solid Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-09-99

Instrument ID: AutoSpec

GC Column:DB-5

Ext. Date: 07-09-99 Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105224#4

Analysis Date: 28-JUL-99 Time: 23:43:27

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 15.47

· · · · · · · · · · · · · · · · · · ·	CONCENTRATION FOUND	DETECTION LIMIT	Qual.	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
ANALYTE	100112		4.		*	1.48
2 2 2 8 TODD	*	0.553	·U	*	. *	1.11
2,3,7,8-TCDD	*	0.694	U ·	*	*	0.74
1,2,3,7,8-PeCDD	*	1.205	U	*		1.10
1,2,3,4,7,8-HxCDD	2.254	0.811	ゴ	2.54	1.000	0.96
1,2,3,6,7,8-HxCDD	*	0.930	ប	*	*	
1,2,3,7,8,9-HxCDD	D 106.124	2.437	್ರ	1.10	1.000	1.14
1,2,3,4,6,7,8-HpCI	1255.142	0.681	ッ	0.93	1.000	1.15
OCDD	*	0.341	. ʊ	*	*	
2,3,7,8-TCDF	*	0.524	ប	*	*	0.98
1,2,3,7,8-PeCDF	*	0.530	ប	*	. *	0.97
2,3,4,7,8-PeCDF	4.127	1.525	J .	1.30	1.000	1.03
1,2,3,4,7,8-HxCDF		1.144	ับ	*	*	1.38
1,2,3,6,7,8-HxCDF	*	1.810	Ū	*	*	0.87
1,2,3,7,8,9-HxCDF	•	1.337	บ	*	*.	1.18
2,3,4,6,7,8-HxCDF	DF 23.511	1.176		0.96	1.000	1.44
1,2,3,4,6,7,8-HpC		1.656	ប	. *	*	1.02
1,2,3,4,7,8,9-HpC	DF 35,485	1.409	5	0.90	1.003	1.21
OCDF	35,405		<u> </u>			4
· ·	*	0.553	U .			٠
Total Tetra-Dioxi	.IIS *	0.694	ប		. **	
Total Penta-Dioxi	.ns *	0.811	ប	•		•
Total Hexa-Dioxir	ns 226.210	2.437		•	•	
Total Hepta-Dioxi		0.341	•			
Total Tetra-Furar						
Total Penta-Furar						
Total Hexa-Furans		1 176			•	
Total Hepta-Fura	ns 23.511	etected: X	- I 3	EMPC. C - u	se value	•

(1) Qualifiers: U and * - not dete from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.



USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284159

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39334

Client Name: E&E-WA

Lab Sample ID: 39334.09

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 14.51 g or mL: g

Sample Receipt Date: 07-09-99

Initial Calibration Date: 07-01-99

Instrument ID: AutoSpec

Ext. Date: 07-09-99 Shift:

Analysis Date: 28-JUL-99 Time: 23:43:27

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105224#4

Injection Volume(ul): 2.00

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 15.47

CONCENTRATION		TEF (1)	TEF-ADJUSTED CONCENTRATION
	•	X 1.0	*
2,3,7,8-TCDD	-	X 0.5	*
1,2,3,7,8-PeCDD		X 0.1	*
1,2,3,4,7,8-HxCDD			2.25e-01
1,2,3,6,7,8-HxCDD	2.25	X 0.1	2.256-01
1,2,3,7,8,9-HxCDD	*	X 0.1	1.0500
1,2,3,4,6,7,8-HpCDD	106.12	X 0.01	1.06e+00
OCDD	1255.14	X 0.001	1.26e+00
2,3,7,8-TCDF	. *	X 0.1	*
1,2,3,7,8-PeCDF	*	X 0.05	*
2,3,4,7,8-PeCDF	*	X 0.5	* '
	4.13	x 0.1	4.13e-01
1,2,3,4,7,8-HxCDF	4.13	X 0.1	*
1,2,3,6,7,8-HxCDF	•	X 0.1	* *
1,2,3,7,8,9-HxCDF	-	X 0.1	*
2,3,4,6,7,8-HxCDF		•	2.35e-01
1,2,3,4,6,7,8-HpCDF	23.51	X 0.01	2.336-01
1,2,3,4,7,8,9-HpCDF	*	X 0.01	2 55- 22
OCDF	35.48	X 0.001	3.55e-02
	•		*

Total: 3.225e+00

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

USEPA - ITD

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AATS/SWOK, INC. 2378-TCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284159

CLIENT ID

Client Name: E&E-WA

Lab Sample ID: 39334.09RE

Matrix (aqueous/solid/leachate): solid Sample Wt/Vol: 10.18 g or mL: g

Sample Receipt Date: 07/09/99

Initial Calibration Date: 05/13/99

Ext. Date: 07/30/99

Instrument ID: 70S

Analysis Date: 10-AUG-99 Time: 20:48:18

GC Column ID: SP2331

Extract Volume (uL): 20.0

Sample Data Filename: S104247#6

Injection Volume (uL): 2.0

Blank Data Filename: S104247#2

Dilution Factor: 1

Cal. Ver. Data Filename: S104247#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 15.47

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	EMPC	ION ABUND. RATIO (1)	RRT (1)
2,3,7,8-TCDF	*	3.0769	*	*	*
INT. STANDARD	SPIKE CONCENTRATION	CONCENT. FOUND	RECOV.	ION ABUND. RATIO (2)	RRT (1)
13C-2,3,7,8-TCDF	1000	467.94	46.79	0.77	1.16
CLEANUP STANDARD	Tanana kanana kanan		•		
37C1-2,3,7,8-TCDD	800	444.47	55.56		0.99

NOTE: Concentrations, EMPCs, and EDL are calculated on a dry weight basis.

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39334.10

Client Name: E&E-WA

Sample Wt/Vol: 17.85 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-09-99

Instrument ID: AutoSpec

Ext. Date: 07-09-99

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Sample Data Filename: A105224#5

Analysis Date: 29-JUL-99 Time: 00:32:13

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Morsture: 10.53

•	CONCENTRATION	DETECTION	Qual	. ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	· (1)	RATIO (2)	(2)	RRF
2,3,7,8-TCDD	*	0.308	ប	*	*.	1.48
1,2,3,7,8-PeCDD	*	0.340	บ	*	*	1.11
1,2,3,4,7,8-HxCDD	*	0.413	U	*	*	0.74
1,2,3,4,7,8-HXCDD	*	0.278	Ū	*	*	1.10
1,2,3,7,8,9-HxCDD	*	0.319	Ū	*	. *	0.96
		0.259	3	0.82	1.000	1.14
1,2,3,4,6,7,8-HpC	8.960	0.334	_	0.87	1.000	1.11
	*	0.148	ប	*	* *	1.15
2,3,7,8-TCDF	*	0.254	ับ	*	*	0.98
1,2,3,7,8-PeCDF	*	0.257	Ū	*	, *	0.97
2,3,4,7,8-PeCDF		0.247	ত্র	1.05	1.000	1.03
1,2,3,4,7,8-HxCDF		0.185	Ū	*	*	1.38
1,2,3,6,7,8-HxCDF		0.294	. ប	*	*	0.87
1,2,3,7,8,9-HxCDF	*	0.217	U	*	*	1.18
2,3,4,6,7,8-HxCDF	•	0.160		1.10	1.000	1.44
1,2,3,4,6,7,8-HpC		0.225	U	*	*	1.02
1,2,3,4,7,8,9-HpC	ביי אנו. •	0.423	บ	*	*	1.21
OCDF	•	0.425	Ū		•	•
Total Tetra-Dioxi	ins *	0.308	. ប			
Total Penta-Dioxi		0.340	U	•		
Total Hexa-Dioxi		0.278	ប	•		•
Total Hepta-Diox		0.259	,	•	•	
Total Tetra-Fura		0.148	•		,	
Total Penta-Fura		0.257			•	
Total Hexa-Furans	· 	0.185				
Total Hepta-Fura	ns 0.553	0.160				
(1) Oualifiers: II	and * - not de	tected; X	& I - 3	EMPC. C - us	e value	

(1) Qualifiers: U and * - not detected; X & from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1



USEPA,

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284160

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39334

Client Name: E&E-WA

Lab Sample ID: 39334.10

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 17.85 g or mL: g

Sample Receipt Date: 07-09-99

Initial Calibration Date: 07-01-99

Instrument ID: AutoSpec

Ext. Date: 07-09-99 Shift:

Analysis Date: 29-JUL-99 Time: 00:32:13

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GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105224#5

Injection Volume(ul): 2.00

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 10.53

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION
•		X 1.0	*
2,3,7,8-TCDD	. *		*
1,2,3,7,8-PeCDD	*	X 0.5	···
1,2,3,4,7,8-HxCDD	*	X 0.1	
1,2,3,6,7,8-HxCDD	*	X 0.1	*
	*	X 0.1	* .
1,2,3,7,8,9-HxCDD	1.33	x 0.01	1.33e-02
1,2,3,4,6,7,8-HpCDD		X 0.001	8.96e-03
OCDD .	8.96	x 0.1	*
2,3,7,8-TCDF	*	 - :	*
1,2,3,7,8-PeCDF	*	x 0.05	•
2,3,4,7,8-PeCDF	*	X 0.5	
1,2,3,4,7,8-HxCDF	1.52	X 0.1	1.52e-01
	*	X 0.1	*
1,2,3,6,7,8-HxCDF	*	x 0.1	, ★ , ,
1,2,3,7,8,9-HxCDF	• •	X 0.1	*
2,3,4,6,7,8-HxCDF		X 0.01	5.53e-03
1,2,3,4,6,7,8-HpCDF	0.55		*
1,2,3,4,7,8,9-HpCDF	*	X 0.01	
OCDF	*	X 0.001	•
OCDI			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Total: 1.799e-01

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate (EPA/625/3-89/016, March 1989.

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Form 1

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284161

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39334

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39334.11

Client Name: E&E-WA

Sample Wt/Vol: 1050

g or mL: mL

Matrix (aqueous/solid/leachate): aqueous Initial Calibration Date: 07/22/99

Sample Receipt Date: 07/09/99

Instrument ID: AutoSpec

GC Column:DB-5

Ext. Date: 07/14/99

Ext. Vol(ul):20.0

Inj. Vol(ul):1.0 Sample Data Filename: A175222#7

Analysis Date: 28-JUL-99 Time: 14:26:01 Blank Data Filename: A105222#4

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#2

Concentration Units (pg/L or ng/Kg dry weight): pg/L % Moisture:

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual.	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
ANADITE	•		**	*	*	1.37
2,3,7,8-TCDD	*	4.476	U U	*	*	1.17
1,2,3,7,8-PeCDD	*	4.648	•	*	*	1.10
1,2,3,4,7,8-HxCDI	*	3.617	U	*	*	0.99
1,2,3,6,7,8-HxCDI) · · · · · · · · · · · · · · · · · · ·	3.164	Ū	· *	*	1.09
1,2,3,7,8,9-HxCDI	*	3.182	Ŭ	*	*	1.21
1,2,3,4,6,7,8-Hp	CDD *	9.886	Ū	1.43	1.000	1.28
OCDD	13.882	6.829	V.	1.43	*	1.15
2,3,7,8-TCDF	*	4.522	. U	*	*	1.01
1,2,3,7,8-PeCDF	★.	2.242	Ŭ	*	*	1.07
2,3,4,7,8-PeCDF	★	2.237	Ŭ .	*	. *	1.16
1,2,3,4,7,8-HxCD	F *	2.998	U	*	*	1.08
1,2,3,4,7,8-HxCD	_ *	2.826	U	*	*	1.14
1,2,3,7,8,9-HxCD	- ਸ	4.309	U		*	1.13
1,2,3,7,8,9-HXCL	יבי אדי *	3.139	U	* *	*	1.35
2,3,4,6,7,8-HxCD	CDE *	4.390	U	*	*	1.40
1,2,3,4,6,7,8-Hr	CDF *	6.411	Ŭ	• *		
1,2,3,4,7,8,9-Hg)CDF *.	3.598	U	*	*	1.45
	· *	4,476	บ			•
Total Tetra-Dio	Kins		· U			
Total Penta-Dio	xins		บ			
Total Hexa-Diox	ins	9.886	Ū			
Total Hepta-Dio	xins '		บ			
Total Tetra-Fur	ans '	4.522	บ	•		
Total Penta-Fur	ans	2.237	U	•		
Total Hexa-Fura	ns	* 2.826	U	•	- '	
Total Hepta-Fur	ans	* 4.390	7. C	T indicator	EMPC T	he C need
Total Hepta-Fur	indicates not	detected; Th	ie x &	- magaible l	olank co	ntaminati

ds valu from second column analysis. The B indicates possible blank contamination. (1) Qualifier U

(2) RRTs and ion ratios are specified in Tables 2 and 9, Method 1613.

1DFB EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284161

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39334

Client Name: E&E-WA

Lab Sample ID: 39334.11

Matrix (aqueous/solid/leachate): aqueous Sample Wt/Vol: 1050

g or mL: mL

Sample Receipt Date: 07/09/99

Initial Calibration Date: 07/22/99

Instrument ID: AutoSpec

Ext. Date: 07/14/99 Shift:

Analysis Date: 28-JUL-99 Time: 14:26:01

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105222#7

Blank Data Filename: A105222#4

Injection Volume(ul): 2.00

Cal. Ver. Data Filename: A105222#2

Dilution Factor: 1

Concentration Units (pg/L or ng/Kg dry weight): pg/L % Moisture:

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD 0CDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 0CDF	* * * * * * * * * * * * * * * * * * *	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.05 X 0.5 X 0.1 X 0.0 X 0.1 X 0.0 X 0.0	1.39e-02 * * * * * * * * * * * * * * * * *	Ø22/49
			*Total: 1.388e-02	911/90

- (1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.
 - Total TEF is calculated by summing up all positively identified isomers of each homologous series. 6/90



PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results 99284177

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39334

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39334.12

Client Name: E&E-WA

Sample Wt/Vcl: 15.31 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-09-99

Instrument ID: AutoSpec

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Ext. Date: 07-09-99

Sample Data Filename: A105224#6

Analysis Date: 29-JUL-99 Time: 01:20:58

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 9.70

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual. (1)	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
			••	•	*	1.48
2,3,7,8-TCDD	*	0.369	U	•	* .	1.11
1,2,3,7,8-PeCDD	*	0.660	ប	•	*	0.74
1,2,3,4,7,8-HxCDD	*	1.097	U	*	*	1.10
1,2,3,6,7,8-HxCDD	*	0.739	U	•	*	0.96
1,2,3,7,8,9-HxCDD	*	0.847	υ.	1.20	1.000	1.14
1,2,3,4,6,7,8-HpCI	DD 44.210	1.439	. 5 <u>.</u>	0.96	1.000	1.11
OCDD	373.338	1.934	5	*	*	1.15
2,3,7,8-TCDF	*	0.288	Ŭ		*	0.98
1,2,3,7,8-PeCDF	, *	0.655	Ū	*	*	0.97
2,3,4,7,8-PeCDF	*	0.663	U	*	*	1.03
1,2,3,4,7,8-HxCDF	*	0.571	U	*	*	1.38
1,2,3,6,7,8-HxCDF	*	0.428	บ		*	
1,2,3,7,8,9-HxCDF	*	0.678	U	*	*	1.18
2,3,4,6,7,8-HxCDF	· · · · · · · · · · · · · · · · · · ·	0.500	U	* .	*	1.44
1,2,3,4,6,7,8-HpC	* प रा	0.857	Ü	*	*	1.02
1,2,3,4,7,8,9-HpC	* ארני	1.207	ซ	*		1.02
0CDF	8.921	1.405	3	1.18	1.004	1.21
Total Tetra-Dioxi	ne *	0.369	. ช		•	
Total Penta-Dioxi	ine *	0.660	U		•	
Total Hexa-Dioxi	*	0.739	U			
Total Hexa-Dioxi	ins 35.585	1.439		••	•	
Total Hepta-Diox:						
Total Tetra-Fura						•
Total Penta-Fura			บ			
Total Hexa-Furan Total Hepta-Fura	5	0.957			o value	
(1) Ouglifiers: II	and * - not d	etected; X	& I	EMPC. C - us	e varue	

from second column analysis. B - possible blank contamination. (1) Qualifiers: U and * - not de

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.



ITD USEPA. 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284177

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39334

Client Name: E&E-WA

Lab Sample ID: 39334.12

Matrix (aqueous/solid/leachate): solid

Sample wt/Vol: 15.31 g or mL: g

Sample Receipt Date: 07-09-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-09-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 29-JUL-99 Time: 01:20:58

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105224#6

Injection Volume(ul): 2.00

ರ್ಗಳಿಕ ತಥ ಕಡಿಸಿಕು

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 9.70

oncentration onits (• **		
	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION	
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF	*	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01		
1,2,3,4,7,8,9-HpCDF OCDF	8.92	X 0.001	motal: 8 244e-01	

Total: 8.244e-01

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.

6/90



CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284178

Lab Code: SWL Case No.:

SDG No .:

Lab Sample ID: 39334.13

Client Name: E&E-WA

Sample Wt/Vol: 17.04 g or mL: g

Initial Calibration Date: 07-01-99

Matrix (aqueous/solid/leachate): solid

Instrument ID: AutoSpec

Sample Receipt Date: 07-09-99

Ext. Date: 07-09-99

GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0

Sample Data Filename: A105224#7

Analysis Date: 29-JUL-99 Time: 02:09:45

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 18.00

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual. (1)	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
ANALITE				*	. *	1.48
2,3,7,8-TCDD	*	0.413	Ū	*	*	1.11
1,2,3,7,8-PeCDD	*	0.930	U	+	* *	0.74
1,2,3,7,8-FCCDD	*	1.120	Ü		*	1.10
1,2,3,4,7,8-HxCDD	*	0.754	U.	<u>.</u>	*	0.96
1,2,3,6,7,8-HxCDD	*	0.864	U		1.000	1.14
1,2,3,7,8,9-HxCDD	op 55.006	1.005		1.04	1.000	1.11
1,2,3,4,6,7,8-HpCI	649.029	0.837	ゴ	0.95	1.000	1.15
OCDD	04J.025 *	0.328	ប្រ	*	•	0.98
2,3,7,8-TCDF	*	0.423	· ਹ	*	*	0.90
1,2,3,7,8-PeCDF	*	0.428	ប	*	*	
2.3.4.7.8-PeCDF		1.021	5	1.06	1.001	
1.2.3,4,7,8-HXCDF	1.706	0.766	์ บี	*	*	1.38
1.2.3.6,7,8-HxCDF	·	1.212	· U	*	*	0.87
1 2.3.7.8.9-HXCDF		0.895	ับ	*	*	1.18
2.3.4.6,7,8-HXCDF	' <u></u>	0.642		0.97	1.000	1.44
1 2 3 4 6 7 8 HPC	DF 1.343	0.842	U	. *	· *	1.02
1,2,3,4,7,8,9-HpC	CDF.		U	0.96	1.003	1.21
OCDF	28.630	1.216			•	
. 002			U	•		
Total Tetra-Diox	ins *	0.413	. บ			
Total Penta-Diox	ins *	0.930	Ü	•		
Total Hexa-Dioxi	ns 5.664	0.754				
Total Hepta-Diox	ins 124,462	1.005				•
Total Repta-Dion		0.328	บ			
Total Tetra-Fura	ns *	0.428	U		•	
Total Penta-Fura	3.403	0.766				
Total Hexa-Furar					***1***	•
Total Hepta-Fura			& I - I	EMPC. C - u	se varue	
(1) Qualifiers: U	J and * - not 0	B - poss	ible bl	ank contami	nation.	

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1

ITD USEPA, 1DFB

EPA SAMPLE NO.

•			・マックス エ でん	TOR STIMMARY
DODE /DODE	TOXICITY	ΕQυ	TAMPE	ICE SUMMARY Results
DCDD/ DCDT	10		plank	Results
tice foi	r Sample	ano	DIGITAL	Results

99284178

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39334

Client Name: E&E-WA

Lab Sample ID: 39334.13

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 17.04 g or mL: g

Sample Receipt Date: 07-09-99

Initial Calibration Date: 07-01-99

Instrument ID: AutoSpec

Ext. Date: 07-09-99 Shift:

GC Column ID: DB-5

Analysis Date: 29-JUL-99 Time: 02:09:45

Extract Volume(ul): 20.0

Sample Data Filename: A105224#7

Injection Volume(ul): 2.00

Blank Data Filename: A105224#2

Cal. Ver. Data Filename: A105222#14

Dilution Factor: 1

% Moisture: 18.00 Concentration Units (pg/L or ng/Kg dry weight): ng/Kg TEF-ADJUSTED

	CONCENTRATION	TEF (1)	CONCENTRATION
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD 0CDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	* * 55.01 649.03 * * 1.71 * 7.55 * 28.63	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01 X 0.01	* * 5.50e-01 6.49e-01 * 1.71e-01 * 7.55e-02 2.86e-02
		* 7	Total: 1.474e+00

(1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate (EPA/625/3-89/016, March 1989.'

6/90



CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284179

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39334

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39334.14

Sample Wt/Vol: 17.22

g or mL: g

Client Name: E&E-WA

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-09-99

Instrument ID: AutoSpec

GC Column:DB-5

Ext. Date: 07-09-99 Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105224#8

Analysis Date: 29-JUL-99 Time: 02:58:32

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 8.50

Concentration only	CONCENTRATION FOUND	DETECTION LIMIT	Qual.	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
ANALYTE	FOORD .				*	1.48
· ·	*	0.370	· U	.	*	1.11
2,3,7,8-TCDD	. *	0.303	U	* :	*	0.74
1,2,3,7,8-PeCDD	_	0.457	U	*	*	1.10
1,2,3,4,7,8-HxCD	DD *	0.308	U	*	*	0.96
1.2.3.6,7,8-HXCL	טנ	0.353	U	*		1.14
1 2 3 7.8.9-HXCL	ענ	0.590	. 5	1.26	1.000	1.11
1,2,3,4,6,7,8-Hg	34.759	0.607		0.90	1.000	1.15
OCDD	34.739	0.421	ひか	*	* .	0.98
2,3,7,8-TCDF	*	0.208	U	*	*	0.97
1.2,3,7,8-PeCDF		0.210	U	★,	*	1.03
2.3.4.7.8-PeCDF		0.348	บ	*	*	1.38
1.2.3.4.7.8-HXC	DF	0.261	U	*		0.87
1.2.3,6,7,8-HXC	DF	0.413	Ū	*	*	1.18
1.2.3.7.8,9-HXC	DF	0.305	บ	*	*	1.44
2 3 4 6 7 8-HXC	DF.	0.251		1.12	1.000	1.02
1 2 3 4.6,7,8-H	IDCDL 0.332	0.354	Ū	*	*	1.02
1,2,3,4,7,8,9-H	IpCDF 1.357		5	1.09	1.004	1.21
OCDF	1.35/	0	-			•
•		0.370	ប	•		
Total Tetra-Dic	oxins	0.303	U	•		
Total Penta-Die	oxins	0.308	U			
Total Hexa-Dio	xins					
Total Hepta-Di	oxins 2.63	0.421	ប			
Total Tetra-Fu	rans	. 0.210	ับ			1.
Total Penta-Fu	rans	* 0,261	. מ		• • • • •	
Total Hexa-Fur	ans					
Total Hepta-Fu	irans 2.19	_ 	& I -	EMPC. C - U	ıse value	
(1) Oualifiers:	: U and * - not	TELECTOR,	ible bl	ank contami	nation.	

from second column analysis. B - possible blank contamination. (1) Qualifiers: U and (2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.

ITD USEPA, 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284179

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39334

Client Name: E&E-WA

Lab Sample ID: 39334.14

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 17.22 5 or mL: g

Sample Receipt Date: 07-09-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-09-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 29-JUL-99 Time: 02:58:32

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105224#8

Injection Volume(ul): 2.00

Blank Data Filename: A105224#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105222#14

% Moisture: 8.50 Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD OCDD 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF	* * * * * * * * * * * * DF 0.59	X 1.0 X 0.5 X 0.1 X 0.1 X 0.01 X 0.001 X 0.001 X 0.1 X 0.05 X 0.5 X 0.1 X 0.1 X 0.1 X 0.1 X 0.1 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01 X 0.01	* * 2.49e-02 3.48e-02 * * * * * * * * * 1.36e-03
OCDF	•		Total · 6.691e-02

Total: 6.691e-02

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.



ecology and environment, inc.

International Specialists in the Environment

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MEMORANDUM

DATE:

August 19, 1999

TO:

Mark Woodke, START-Project Manager, Seattle, WA

FROM:

Leatta Dahlhoff, Chemist, E & E, Seattle, WAMW

THRU:

David Ikeda, Chemist, E & E, Seattle, WA

SUBJ:

Organic Data Quality Assurance Review, Wenatchee Brownfields Site,

Wenatchee, Washington

REF:

TDD: 98-11-0007

PAN: CK-07-01-SI-DM

The data quality assurance review of one water and six soil samples collected from the Wenatchee Brownfields site located in Wenatchee, Washington, has been completed. Analysis for Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) following EPA Method 8290 for soil samples and EPA Method 1613B for water samples were performed by Southwest Laboratory of Oklahoma, Broken Arrow, Oklahoma.

The samples were numbered:

99284183

99284184

99284187 ... 99284190

99284195

99284196

99284197

Data Qualifications:

Holding Time: Acceptable.

The samples were maintained at 4°C (± 2°C) and were collected July 8 and 9, 1999, were extracted on July 16, 1999, and were analyzed by July 30, 1999, therefore meeting QC criteria of less than 30 days for soil samples and 7 days for water samples between collection and extraction and less than 45 days for soil samples and 40 days for water samples between extraction and analysis.

II Instrument Performance: Acceptable.

A performance check solution was analyzed at the beginning of each 12-hour sample analysis period. The minimum resolving power of 10,000 was attained. The valley between 2,3,7,8-TCDD and the peaks representing all other TCDD isomers was ≤ 25 % in the window defining mix solution. All ion abundance and retention time criteria were met in all calibration standards.

III Calibration

A. Initial Calibration: Acceptable.

A 5-point initial calibration was performed with all Relative Standard Deviations (RSDs) less than 20 % for the unlabeled target analytes and less than 30 % for the labeled internal standards. All ion abundance ratios, signal-to-noise (s/n) ratios, and retention times were within method QC limits.

B. Continuing Calibration: Acceptable.

A continuing calibration was analyzed at the start of each 12-hour period. The % valley between 2,3,7,8-TCDD and the closest TCDF isomer was less than 25 %. The retention times for all of the furan and dioxin homologues were established and properly labeled from the first to the last eluters. All ion abundance and s/n ratios were within method QC limits. All % differences were less than 30 % for the labeled internal standards and less than 20 % for the unlabeled target analytes.

IV Compound Quantitation and Detection Limits: Acceptable.

All of the samples were analyzed at the project required quantitation limits. Some of the totals reported were corrected by the reviewer due to adjustments that had to be made because of contamination in a blank or miscalculations. All of the compounds were calculated off the primary column, DB5, except for TCDF in sample 99284197. The TCDF sample result for 97284197 was reported from the second analysis. The TEF factor was also corrected by the reviewer because TCDF was not detected in the sample. All of the detected target compounds were within the linear calibration range.

V Blanks: Satisfactory.

The frequency of analysis of laboratory blanks was met. Octachlorodibenzodioxin (OCDD) was detected in the method blank DFBLK2. The OCDD detected in the associated sample 99284195 (9.70 pg/L) was qualified as non-detect, "U", due to the concentration being less than 5 times the value in the blank (8.344 pg/L). The TEF factor was also corrected by the reviewer because of contamination in the blank.

VI Analytical Sequence: Acceptable.

All of the standards, blanks, samples and QC samples were analyzed in accordance with the method-specified analytical sequence.

VII Internal Standards: Acceptable.

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All internal standard ion abundance ratios were within method QC limits. All internal standard results were within the QC recovery limits of 40 % to 135 %.

VI Surrogate Recoveries: Not Applicable.

Surrogates were not required for this method. Clean-up standard 37Cl-2,3,7,8-TCDD was added to all samples and QC samples. The clean-up standard recoveries were acceptable.

VII Duplicate Sample Analysis: Not Applicable.

Duplicate sample analyses were not performed and no action was taken on this basis.

VIII Matrix Spike/Matrix Spike Duplicates: Not Performed.

Matrix spike analyses were not performed. The laboratory blank spike recoveries were within 50 % to 150 %. These recoveries were acceptable in the reviewers' professional judgment.

IX Compound Identification: Acceptable.

For analytes with isotopically labeled standards, the retention times of the sample quantitation ions maximized within -1 to +3 seconds of the isotopically labeled standard ions. Several samples had ratios for the quantitation ion integrated ion currents outside the method QC limits, the laboratory qualified these sample results as estimated maximum possible concentrations (X or I). The reviewer changed the laboratory qualifiers "X" and "I" to "J" (estimated).

X Laboratory Control Sample (LCS) Analyses: Acceptable.

A spiked blank was extracted and analyzed with each sample delivery group (SDG). The recoveries for the target compounds and internal standards for the LCS met the acceptance criteria. None of the data were qualified on this basis.

XI Laboratory Contact: Required

The laboratory was contacted on August 19, 1999, for a discrepancy with the Total TEF-adjusted concentration value for sample 99284184. The value on the Form I states 0.1807, however, the value calculated by the reviewer was 0.10721. The laboratory resubmitted a corrected TEF summary form.

XII Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in EPA Method 8290 and the OSWER Directive "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan and Data Validation Procedures" (EPA/540/G-90/004). Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

- U The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity because the reported concentrations were less than the contract required detection limits or because quality control criteria limits were not met.

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284183

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39412

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39412.01

Client Name: E&E-WA

Sample Wt/Vol: 10.32 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-14-99

Instrument ID: AutoSpec

Ext. Date: 07-16-99

GC Column: DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0 Sample Data Filename: A105231#5

Analysis Date: 30-JUL-99 Time: 02:19:42 Blank Data Filename: A105231#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105229#6

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 9.14

	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
2,3,7,8-TCDD	*	0.408	ប	*	*	1.48
1,2,3,7,8-PeCDD	*	0.578	U .	*	*	1.11
1,2,3,4,7,8-HxCDD	*	0.617	Ū	*	*	0.74
1,2,3,6,7,8-HxCDD	*	0.415	Ū	*	* * *	1.10
1,2,3,7,8,9-HxCDD	* *	0.476	σ	•	*	0.96
1,2,3,4,6,7,8-HpCD	D *	0.511	ָ ע	* *	*	1.14
OCDD	12.649	0.796	i ka	0.96	1.000	1.11
2,3,7,8-TCDF	*	0.305	U	*	*	1.15
1,2,3,7,8-PeCDF	* *	0.232	υ	*	*	0.98
2,3,4,7,8-PeCDF	of the second second	0.235	<u>ט</u>	· *	*	0.97
1,2,3,4,7,8-HxCDF	1.012		M	1.32	1.000	1.03
1,2,3,6,7,8-HxCDF	*	0.340	์ับ	. •	*	1.38
1,2,3,7,8,9-HxCDF	*	0.539	U	*	*	0.87
2,3,4,6,7,8-HxCDF	*	0.398	ប	*	*	1.18
1,2,3,4,6,7,8-HpCI)F ★	0.505	Ū	*	*	1.44
1,2,3,4,7,8,9-HpCI		0.712	ט	*	*	1.02
OCDF	*	0.634	U	*	*	1.21
		•	•	•		1.7
Total Tetra-Dioxin	ns *	0.408	U			
Total Penta-Dioxir		0.578	U			•
Total Hexa-Dioxins		0.415	· U.			
Total Hepta-Dioxi		0.511	•	•	•	
Total Tetra-Furans		0.305				
Total Penta-Furans		0.235				
Total Hexa-Furans		0.340	•			:
Total Hepta-Furan		0.505	. U			
(1) Qualifiers: II			L - E	MPC. C - use	e value	•

(1) Qualifiers: U and * - not detected; X & I - EMPC from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284183

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39412

Client Name: E&E-WA

Lab Samplė ID: 39412.01

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 10.32 g or mL: g

Sample Receipt Date: 07-14-99

Initial Calibration Date: 07-01-99

.

Ext. Date: 07-16-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 30-JUL-99 Time: 02:19:42

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105231#5

Injection Volume(ul): 2.00

Blank Data Filename: A105231#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105229#6

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 9.14

	CONCENTRATION	TEF (1)	TEF-ADJUSTED CONCENTRATION	
2,3,7,8-TCDD	*	X 1.0		
1,2,3,7,8-PeCDD	*	X 0.5		
1,2,3,4,7,8-HxCDD	· *	X 0.1		
1,2,3,6,7,8-HxCDD	*	X 0.1		
1,2,3,7,8,9-HxCDD	· ±	X 0.1		
1,2,3,4,6,7,8-HpCDD	*	X 0.01	*	
OCDD	12.65	X 0.001	1.26e-02	
2,3,7,8-TCDF	*	X 0.1	1.266-02	
1,2,3,7,8-PeCDF	*	X 0.05		
2,3,4,7,8-PeCDF	*	X 0.5	**	
1,2,3,4,7,8-HxCDF	1.01	X 0.1	*;	
1,2,3,6,7,8-HxCDF	*	X 0.1	1.01e-01	
1,2,3,7,8,9-HxCDF	*	X 0.1		
2,3,4,6,7,8-HxCDF	*	X 0.1	₩	
1,2,3,4,6,7,8-HpCDF	•	X 0.1 X 0.01	*	
1,2,3,4,7,8,9-HpCDF	· .	· · · · · · · ·	*	
OCDF	*	X 0.01 X 0.001	. * *	

Total: 1.139e-01

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284184

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39412

Lab Code: SWL Case No.:

SDG No :

Lab Sample ID: 39412.02

Client Name: E&E-WA

Sample Wt/Vol: 10.47 g or mL: g

Sample Receipt Date: 07-14-99

Instrument ID: AutoSpec

Ext. Date: 07-16-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105212#9

Analysis Date: 23-JUL-99 Time: 15:56:59

Blank Data Filename: A105212#7

Dilution Factor: 1

Cal. Ver. Data Filename: A105212#2

	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
2,3,7,8-TCDD	*	0.164	ប	*	*	1.48
1,2,3,7,8-PeCDD	*	0.221	U	* ·	*	1.11
1,2,3,4,7,8-HxCDD	* *	0.249	U	*	*	0.74
1,2,3,6,7,8-HxCDD	0.295	0.167		1.30	1.000	1.10
1,2,3,7,8,9-HxCDD	*	0.192	U	*	*.	0.96
1,2,3,4,6,7,8-HpCI	DD 3.448	0.282		1.16	1.000	1.14
OCDD	37.974	0.233	•	0.89	1.000	1.11
2,3,7,8-TCDF	. * .	0.146	U .	*	, *	1.15
1,2,3,7,8-PeCDF	*	0.163	ับ	*	*	0.98
2,3,4,7,8-PeCDF	*	0.165	U	*	*	0.97
1,2,3,4,7,8-HxCDF	*	0.168	U	*	*	1.03
1,2,3,6,7,8-HxCDF	*	0.126	U	*	*	1.38
1,2,3,7,8,9-HxCDF	*	0.199	U	*	*	0.87
2,3,4,6,7,8-HxCDF	*	0.147	U	*	*	1.18
1,2,3,4,6,7,8-HpCI	OF 0.405)	0.092	MAKE	1.99	1.000	1.44
1,2,3,4,7,8,9-HpCI)F *	0.130	ับ	*	* '	1.02
OCDF	1.157	0.192		0.81	1.004	1.21
Total Tetra-Dioxin	ıs *	0.164	บ			
Total Penta-Dioxir	ıs *	0.221	Ū			
Total Hexa-Dioxins	0.295	0.167				
Total Hepta-Dioxin	ıs 5.838	0.282	· '\		•	• •
Total Tetra-Furans	*	0.146	ซ	•		
Total Penta-Furans	*	0.165	U			•
Total Hexa-Furans	0.496	0.126	=			
Total Hepta-Furans	*	0.092	u ,			
(1) Qualifiers, II		antal. V r	•	ma a	7	

⁽¹⁾ Qualifiers: U and * - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

⁽²⁾ RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

EPA SAMPLE NO.

99284184

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Client Name: E&E-WA

Matrix (aqueous/solid/leachate): solid

Sample Receipt Date: 07-14-99

Ext. Date: 07-16-99 Shift:

Analysis Date: 23-JUL-99 Time: 15:56:59

Extract Volume(ul): 20.0

Injection Volume (ul): 2.00

Dilution Factor: 1.

Episode No.: 39412

Lab Sample ID: 39412.02

Sample Wt/Vol: 10.47 g or mL: g

Initial Calibration Date: 07-01-99

Instrument ID: AutoSpec

GC Column ID: DB-5

Sample Data Filename: Al05212#9

Blank Data Filename: A105212#7

Cal. Ver. Data Filename: Al05212#2

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 14.35

	CONCENTRATION	TEF (1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD	*	X 1.0	
1,2,3,7,8-PeCDD	b	X 0.5	
1,2,3,4,7,8-HXCDD	# .	X 0.1	*
1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD	0.30	X 0.1	2.95e-02
1,2,3,4,6,7,8-HpCDD	*	X 0.1	tr
OCDD	3.45	X 0.01	3.45e-02
2,3,7,8-TCDF	37.97	X 0.001	3.80e-02
1,2,3,7,8-PeCDF	•	X 0.1	•
2,3,4,7,8-PeCDF	±	X 0.05	*
1.2,3,4,7,8-HxCDF	*	X 0.5 X 0.1	*
1,2,3,6,7,8-HxCDF	±	X 0.1	*
1,2,3,7,8,9-HxCDF	. •	X 0.1	· **
2,3,4,6,7,8-HxCDF	*	X 0.1	
1,2,3,4,6,7,8-HpCDF	0.40	X 0.01	4.05e-03
1,2,3,4,7,8,9-HpCDF OCDF	*	X 0.01	*
· ·	1.16	X 0.001	1.16e-03

*Total: 1.807e-01 1.076-1

- (1) Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate (EPA/625/3-89/016, March 1989.
 - * Total TEF is calculated by summing up all positively identified isomers of each homologous series.

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CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results 99284187

ab Name: Southwest Lab. of Oklahoma Episode No.: 39412

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39412.03

Client Name: E&E-WA

Sample Wt/Vol: 10.10 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-14-99

Instrument ID: AutoSpec

Ext. Date: 07-16-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0 Sample Data Filename: A105231#6

Analysis Date: 30-JUL-99 Time: 03:08:27 Blank Data Filename: A105231#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105229#6

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 7.57

	CONCENTRATION	DETECTION	Qual. I	ON ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2)	RRF
2,3,7,8-TCDD	*****	0.273	U	*	*	1.48
1,2,3,7,8-PeCDD	*	0.358	Ū.	. *	*	1.11
1,2,3,4,7,8-HxCDD	*	0.466	U	*	*	0.74
1,2,3,6,7,8-HxCDD	*	0.313	u	* *	*	1.10
1,2,3,7,8,9-HxCDD	*	0.359	.	*	*	0.96
1,2,3,4,6,7,8-HpCD	D 2.931	0.388	•	1.06	1.001	1.14
OCDD	18.653	0.416	•		1.000	1.11
2,3,7,8-TCDF	*	0.265	U-	*	,*	1.15
1,2,3,7,8-PeCDF	*	0.214	. ប	*	*	0.98
2,3,4,7,8-PeCDF	*	0.217	Ū	*	*	0.97
1,2,3,4,7,8-HxCDF	0.9975		AME	1.39	1.000	1.03
1,2,3,6,7,8-HxCDF	*	0.273	บ้	*	*	1.38
1,2,3,7,8,9-HxCDF	*	0.432	Ü	*	*	0.87
2,3,4,6,7,8-HxCDF	*	0.319	Ū	**	* '	1.18
1,2,3,4,6,7,8-HpCD	F 1.364	0.302		1.15	1.000	1.44
1,2,3,4,7,8,9-HpCD	· ·	0.426	. U	*	*	1.02
OCDF	1.488	0.425	,	0.89	1.003	1.21
Total Tetra-Dioxin	.s *	0.273	U.			
Total Penta-Dioxin	and the second s	0.358	U			
Total Hexa-Dioxins		0.313	_			
Total Hepta-Dioxin	'	0.388	•			
Total Tetra-Furans		0.265				
Total Penta-Furans		0.217				
Total Hexa-Furans	4.650	0.273				a i de la companya di salah d
Total Hepta-Furans		0.302		•		
(1) Qualifiers: U a			T - EMP	C. C - use	e value	

(1) Qualifiers: U and \star - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

EPA SAMPLE NO.

99284187

Sample Wt/Vol: 10.10 g or mL: g

Lab Name: SOUTHWEST LAB. OF OKLAHOMA Episode No.: 39412

Client Name: E&E-WA Lab Sample ID: 39412.03

Matrix (aqueous/solid/leachate): solid

Sample Receipt Date: 07-14-99 Initial Calibration Date: 07-01-99

Ext. Date: 07-16-99 Shift: Instrument ID: AutoSpec

Analysis Date: 30-JUL-99 Time: 03:08:27 GC Column ID: DB-5

Extract Volume(ul): 20.0 Sample Data Filename: A105231#6

Injection Volume (ul): 2.00 Blank Data Filename: A105231#2

Dilution Factor: 1 Cal. Ver. Data Filename: A105229#6

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 7.57

	CONCENTRATION	TEF (1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD	•	X 1.0	
1,2,3,7,8-PeCDD	*	X 0.5	*
1,2,3,4,7,8-HxCDD	±	X 0.1	
1,2,3,6,7,8-HxCDD	· 1	X 0.1	•
1,2,3,7,8,9-HxCDD	*	X 0.1	
1,2,3,4,6,7,8-HpCDD	2.93	X 0.01	2.93e-02
OCDD	18.65	X 0.001	1.87e-02
2,3,7,8-TCDF	*	X 0.1	*
1,2,3,7,8-PeCDF	*	X 0.05	*
2,3,4,7,8-PeCDF	. ★	X 0.5	· ·
1,2,3,4,7,8-HxCDF	1.00	X 0.1	9.97e-02
1,2,3,6,7,8-HxCDF	,*	X 0.1	*
1,2,3,7,8,9-HxCDF	*	X 0.1	*
2,3,4,6,7,8-HxCDF	*	X 0.1	*
1,2,3,4,6,7,8-HpCDF	1.36	X 0.01	1.36e-02
1,2,3,4,7,8,9-HpCDF	*	X 0.01	*
OCDF	1.49	X 0.001	1.49e-03

Total: 1.628e-01

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⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284190

Lab Name: Southwest Lab. of Oklahoma

Episode No.: 39412

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39412.04

Client Name: E&E-WA

Sample Wt/Vol: 10.04 g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-14-99

Instrument ID: AutoSpec

Ext. Date: 07-16-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105231#7

Analysis Date: 30-JUL-99 Time: 03:57:14

Blank Data Filename: A105231#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105229#6

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 4.74

ANALYTE FOUND LIMIT (1) RATIO (2) (2) RRF 2,3,7,8-TCDD		CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
2,3,7,8-TCDD	ANALYTE				RATIO (2)	(2)	RRF
1,2,3,7,8-PeCDD		*	0.293	. υ	* .	*	1.48
1,2,3,4,7,8-HxCDD	2,3,7,8-1CDD	•		U	* *	*	1.11
1,2,3,4,7,8-HXCDD	1,2,3,7,8-PECUD	•		-	*	*	0.74
1,2,3,6,7,8-HXCDD	1,2,3,4,7,8-HXCDD			_	*	*	1.10
1,2,3,4,6,7,8-HpCDD	1,2,3,6,7,8-HXCDD				*	*	0.96
1,2,3,4,6,7,8-HPCDD OCDD 4,186 0.664 0.93 1.000 1.12 2,3,7,8-TCDF * 0.181 U * * 0.93 1.000 1.12 0.99 1.00 1.00 1.12 0.93 1.000 1.12 0.99 1.00 1.00 1.12 0.93 0.93 1.000 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.00 1.00 1.12 0.99 1.00 1.00 1.00 1.12 0.99 1.00 1.00 1.00 1.12 0.99 1.00 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.12 0.99 1.00 1.00 1.00 1.12 0.99 1.00 1.00 1.12 0.99 1.00 1.00 1.00 1.12 0.99 1.00 1.00 1.00 1.12 0.99 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1,2,3,7,8,9-HXCDD			• -	*	*	1.14
OCDD 2,3,7,8-TCDF		טט •			0.93	1.000	1.11
2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 3,2,3,4,6,7,8-HpCDF 4 0.203 U * 1.1 4 1,2,3,4,6,7,8-HpCDF 5 0.203 U * 1.4 6,7,8-HpCDF 7 0.207 U * 1.0 7 0 1 Tetra-Dioxins 7 0.293 U 7 Total Tetra-Dioxins 7 0.293 U 7 Total Hexa-Dioxins 7 0.293 U 7 Total Hexa-Dioxins 8 0.367 U 7 Total Hepta-Dioxins 9 0.219 U 7 Total Hepta-Dioxins 1 0.315 U		4,186	•	TT	*	*	1.15
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 3,2,3,4,6,7,8-HyCDF 4 0.203 U * 1.1 4 1,2,3,4,6,7,8-HyCDF 4 0.211 U * 1.4 1,2,3,4,7,8,9-HyCDF 5 0.377 U * 1.0 1,2,3,4,7,8,9-HyCDF 7 0 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		•			.	*	0.98
2,3,4,7,8-PeCDF	1,2,3,7,8-PeCDF				•	*	0.97
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF CCDF Total Tetra-Dioxins Total Penta-Dioxins Total Hexa-Dioxins Total Heyta-Dioxins Total Hepta-Dioxins	2,3,4,7,8-PeCDF	ä.			•	. *	1.03
1,2,3,6,7,8-HxCDF	1,2,3,4,7,8-HxCDF	*				. *	1.38
1,2,3,7,8,9-HxCDF	1,2,3,6,7,8-HxCDF	*		•			0.87
2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	*	•	_			1.18
1,2,3,4,6,7,8-HpCDF	2,3,4,6,7,8-HxCDF	*			Ŧ		
1,2,3,4,7,8,9-HpCDF	1,2,3,4,6,7,8-HpC	DF : *					
OCDF * 0.377 U Total Tetra-Dioxins * 0.293 U Total Penta-Dioxins * 0.367 U Total Hexa-Dioxins * 0.219 U Total Hepta-Dioxins * 0.315 U	1.2.3,4,7,8,9-HpC	DF *	= :	. •		_	
Total Penta-Dioxins * 0.367 U Total Hexa-Dioxins * 0.219 U Total Hepta-Dioxins * 0.315 U		*	0.377	Ū	*		1.21
Total Penta-Dioxins * 0.367 U Total Hexa-Dioxins * 0.219 U Total Hepta-Dioxins * 0.315 U	Total Tetra-Dioxi	ns · *	0.293	υ			
Total Hexa-Dioxins * 0.219 U Total Hepta-Dioxins * 0.315 U	Total Penta-Dioxi	ns *	0.367	U			
Total Hepta-Dioxins * 0.315 U	metal Hava-Diovin	*		u U			
Total Repta-bloking	Total Nesta-Dioxi	ne *		U			
	Total Repta Dioxi	*	0.181	U	· · · · · · · · · · · · · · · · · · ·	•	
IUCAI ICCIA I GIALLE				σ			
Total Penta-Fulans				_	• •		
Total Hexa-Fulans				-			
Total Hepta-Furans * 0.211 U	Total Hepta-Furar	15		_	EMPC C - us	e value	

(1) Qualifiers: U and * - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284190

EPA SAMPLE NO.

Lab	Name:	SOUTHWEST	LAB.	OF	OKLAHOMA	
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Client Name: E&E-WA

Matrix (aqueous/solid/leachate): solid

Sample Receipt Date: 07-14-99

Ext. Date: 07-16-99 Shift:

Analysis Date: 30-JUL-99 Time: 03:57:14 GC Column ID: DB-5

Extract Volume(ul): 20.0

Injection Volume(ul): 2.00

Dilution Factor: 1

Episode No.: 39412

Lab Sample ID: 39412.04

Sample Wt/Vol: 10.04 g or mL: g

Initial Calibration Date: 07-01-99

Instrument ID: AutoSpec

Sample Data Filename: A105231#7

Blank Data Filename: A105231#2

Cal. Ver. Data Filename: A105229#6

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 4.74

	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD	+	X 1.0	*
1,2,3,7,8-PeCDD	* .	X 0.5	*
1,2,3,4,7,8-HxCDD	*	X 0.1	<u>.</u> .
1,2,3,6,7,8-HxCDD	*	X 0.1	*
1,2,3,7,8,9-HxCDD		X 0.1	*
1,2,3,4,6,7,8-HpCDD	*	X 0.01	*
OCDD	4.19	X 0.001	4.19e-03
2,3,7,8-TCDF	*	X 0.1	*
1,2,3,7,8-PeCDF	*	X 0.05	*
2,3,4,7,8-PeCDF	*	X 0.5	
1,2,3,4,7,8-HxCDF	*	X 0.1	, *
1,2,3,6,7,8-HxCDF	.★	X 0.1	*
1,2,3,7,8,9-HxCDF	*	X 0.1	*
2,3,4,6,7,8-HxCDF	*	X 0.1	*
1,2,3,4,6,7,8-HpCDF	***	X 0.01	*
1,2,3,4,7,8,9-HpCDF	*	X 0.01	*
OCDF	*	X 0.001	*

Total: 4.186e-03

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate (EPA/625/3-89/016, March 1989.'

Form 1

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284195

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39412

Lab Code: SWL Case No.: SDG No.:

Lab Sample ID: 39412.05

Client Name: E&E-WA

Sample Wt/Vol: 1000

g or mL: mL

Matrix (aqueous/solid/leachate): aqueous Initial Calibration Date: 07/01/99

Sample Receipt Date: 07/14/99

Instrument ID: AutoSpec

Ext. Date: 07/16/99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0

Sample Data Filename: A105216#12

Analysis Date: 27-JUL-99 Time: 19:27:47

Blank Data Filename: A105216#3

Dilution Factor: 1

Cal. Ver. Data Filename: A105216#1

Concentration Units (pg/L or ng/Kg dry weight): pg/L

% Moisture:

7	NALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual.	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
	2,3,7,8-TCDD	*	4.128	ט י	*	*	1.48
	1,2,3,7,8-PeCDD	<i>20</i> ★	3.268	U	*	*	1.11
	1,2,3,4,7,8-HxCDD	*	4.120	U	* .	*	0.74
	1,2,3,6,7,8-HxCDD	*	2.774	Ū	*	*	1.10
	1,2,3,7,8,9-HxCDD	*	3.180	. ប	*	*	0.96
	1,2,3,4,6,7,8-HpCI	D *	5.144	U,	* *	*	1.14
	OCDD	9.701	3.744	βV	0.92	1.001	1.11
	2,3,7,8-TCDF	*	4.340	ີ ປັ	*	*	1.15
	1,2,3,7,8-PeCDF	*	2.352	U	*	*	0.98
	2,3,4,7,8-PeCDF	*	2.378	U	*	*	0.97
•	1,2,3,4,7,8-HxCDF	*	2.432	Ū	*	*	1.03
	1,2,3,6,7,8-HxCDF	*	1.824	ט י	*	*	1.38
	1,2,3,7,8,9-HxCDF	. *	2.888	ט	*	*	0.87
	2,3,4,6,7,8-HxCDF	*	2.133	ט י	*	*	1.18
	1,2,3,4,6,7,8-HpCI)F *	1.652	U	*	*	1.44
	1,2,3,4,7,8,9-HpCI		2.327	U	*	*	1.02
	OCDF		3.998	U	*	* .	1.21
	Total Tetra-Dioxin	ns *	4.128	U	•		
	Total Penta-Dioxi	as , *	3.268	U	*		
	Total Hexa-Dioxins	₹ *	2.774	ט		1.1	
	Total Hepta-Dioxi	ns *	5.144	ט	view and the a		
	Total Tetra-Furans	g *	4.340	U,			
	Total Penta-Furans	s *	2.378	U			
	Total Hexa-Furans	*	1.824	U			
	Total Hepta-Furan	* *	1.652	U			

(1) Qualifiers: U and * - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

(2) RRTs and ion ratios are specified in Tables 11 and 8, Method 8290.

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Initial Calibrations - Acceptable

One VOA, two SVOA and three Pest/PCB initial calibrations were performed. The initial calibrations met the SOW technical acceptance criteria.

Continuing Calibration Verification (CCVs) Standards

All of the CCVs met the criteria for frequency of analysis, the minimum response factor, the retention time and the percent differences (%Ds) criteria with the following exceptions:

 The %Ds for the following VOA compounds exceeded the QC limits and the associated results were qualified accordingly:

Date /Time of Analysis	Inst. i.d.	Compound	%D	Qualifier Detect/Non-detect
7/13/99 (08:31)	51	chloromethane 1,2-dichloroethane 1,2-dichloroethane-d4 (surr.)	-42.8 29.2 42.4	J/UJ J/none none
7/15/99 (10:10)	51	1,2-dichloroethane 1,1,1-trichloroethane 1,2-dichloroethane-d4 (surr.)	26.3 25.3 56.6	J/none none none

The %Ds for the following SVOA compounds exceeded the QC limits and the associated results were qualified accordingly:

Date /Time of Analysis	Inst. i.d.	Compound	%D	Qualifier Detect/Non-detect
7/12/99 (08:06)	66	hexachlorobenzene 3,3'-dichlorobenzidine 2,4,6-tribromophenol (surr.)	27.5 -35.5 32.1	J/none J/UJ none
7/12/99 (22:01)	66	4-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene terphenyl-d14 (surr.) 2,4,6-tribromophenol (surr.)	-37.4 27.7 30.1 25.8 36.6	J/UJ J/none J/none none none
7/13/99 (11:13)	66	pentachlorophenol 3,3'-dichlorobenzidine 2,4,6-tribromophenol (surr.)	-28.8 48.4 33.0	J/UJ J/none none
7/14/99 (10:50)	66	2,4-dinitrophenol 3,3'-dichlorobenzidine	34.6 28.2	J/none J/none
7/15/99 (09:49)	66	2,4-dinitrophenol 2,4-dinitrotoluene 4,6-dinitro-2-methylphenol 2,4,6-tribromophenol (surr.)	31.6 28.4 25.5 34.8	J/none J/none none none
7/14/99 (23:38)	70	pentachlorophenol 2,4,6-tribromophenol (surr.)	-27.5 -28.8	J/UJ none
7/15/99 riseyci (18:08)	: :70 :par	pentachlorophenol	-38.3	J/UJ was recinament

ENVIRONMENTAL SERVICES ASSISTANCE I EAMS - WESTERN ZONE

LOCKHEED MARTIN

ESAT Region 10 Lockheed Martin 7411 Beach Drive East Port Orchard, WA 98366 Phone (360) 871-8723

DELIVERABLE NARRATIVE

DATE:

September 3, 1999

To:

Ginna Grepo-Grove, WAM, USEPA, Region 10

THROUGH:

Dave Dobb, Team Manager, ESAT Region 10

FROM:

Chris Pace, Task Lead, ESAT Region 10/

SUBJECT:

Data validation report for the volatile organic (VOA), semi-volatile organic (SVOA) and

pesticide/polychlorinated biphenyl (Pest/PCB) analysis of samples from the Wenatchee Brownfields

Site. Case: 27165 SDG: JW542

DOC:

ESW10-3-1379

PWO:

ESW72020

TDF:

3641

WA:

10-99-3-10

CC:

Gerald Dodo, RPO, USEPA, Region 10

Project File

The quality assurance (QA) review of 20 soil samples collected from the above referenced site has been completed. These samples were analyzed for VOA (16), SVOA (16) and Pest/PCB (20) in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (OLM03.2) by COMPUCHEM of Cary, NC.

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control Specifications outlined in the USEPA CLP SOW for Organic Analysis (OLM03.2), the USEPA CLP National Functional Guidelines for Organic Data Review (2/94) and the Region 10 Guidelines for CLP Data Review.

The conclusions presented herein are based on the information provided for the review.

Holding Time - Acceptable

All samples were preserved with ice prior to shipment. All of the samples met the method and technical (40 CFR 136) required holding times for all analyses. The Holding Times Summary listing the pertinent collection, extraction, and analysis dates is attached at the end of this validation report.

Instrument Performance - Acceptable

All of the GC and GC/MS systems met the SOW specified technical acceptance criteria prior to sample analyses, i.e., GC/MS performance checks, GC performance checks, retention times, response factors, and calibrations. The systems remained stable throughout the course of analyses. Instrument blanks were all clean and there were no indications of carry-over.



ecology and environment, inc.

interruptional Specialists in the Lovironment

500 Linst Inforstate Center, 999 Third Avenue

Scattle, Washington 98104

Fel. (206) 624-9537, Fox: (206) 621-9832

MEMORANDUM

DATE:

September 24, 1999

TO:

Mark Woodke, Project Manager, E & E, Seattle, WA

FROM:

Alasdair Turner, START-Chemist, E & E, Seattle, WA

SUBJ:

Inorganic Data Quality Assurance Summary Review, Wenatchee

Brownfields Site, Wenatchee, Washington.

REF:

TDD: 98-11-0007

PAN: CK0701SIDM

The data quality assurance summary review of 20 soil samples collected from the Wenatchee Brownfields Site in Wenatchee, Washington has been completed. Analysis for VOCs, SVOC, and Pest/PCBs (EPA CLP SOW for organic analysis OLM03.2) has been completed, and was performed by COMPUCHEM, of Cary, NC.

No discrepancies were noted.

USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY
Use for Sample and Blank Results

99284197

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39412

Client Name: E&E-WA

Lab Sample ID: 39412.07

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 10.32 g or mL: g

Sample Receipt Date: 07-14-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-16-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 30-JUL-99 Time: 05:34:47

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105231#9

Injection Volume(ul): 2.00

Blank Data Filename: A105231#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105229#6

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 23.55

	CONCENTRATION	TEF (1)	TEF-ADJUSTED CONCENTRATION	
2,3,7,8-TCDD	*	X 1.0	*	
1,2,3,7,8-PeCDD	*	X 0.5	*	
1,2,3,4,7,8-HxCDD	2.46	X 0.1	2.46e-01	•
1,2,3,6,7,8-HxCDD	.*	X 0.1	* 25	•
1,2,3,7,8,9-HxCDD	*	X 0.1	*	•
1,2,3,4,6,7,8-HpCDD	45.69	X 0.01	4.57e-01	•
OCDD	698.40	X 0.001	ио 6.98e-01	
2,3,7,8-TCDF	NO-2.50	- x 0.1 - 	2.50e-01 🔘	9/2/99
1,2,3,7,8-PeCDF	*	X 0.05	*	,
2,3,4,7,8-PeCDF	*	X 0.5	*	
1,2,3,4,7,8-HxCDF	3.48	X 0.1	3.48e-01	
1,2,3,6,7,8-HxCDF	* .	X 0.1	*	
1,2,3,7,8,9-HxCDF	*	X 0.1	*	
2,3,4,6,7,8-HxCDF	*	X 0.1		
1,2,3,4,6,7,8-HpCDF	10.25	X 0.01	1.03e-01	•
1,2,3,4,7,8,9-HpCDF	*	X 0.01	*	
OCDF	34.71	X 0.001	3.47e-02	

Total: 2.126000 0 9/2/19

3119199

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate(EPA/625/3-89/016, March 1989.'

Form 1

CLIENT ID. PCDD/PCDF ANALYSIS DATA SHEET

Use for Sample and Blank Results

99284197

Lab Name: Southwest Lab. of Oklahoma Episode No.: 39412

Lab Code: SWL Case No.: SDG No.: Lab Sample ID: 39412.07

Client Name: E&E-WA Sample Wt/Vol: 10.32 g or mL: g

Matrix (aqueous/solid/leachate): solid Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-14-99 Instrument ID: AutoSpec

Ext. Date: 07-16-99 GC Column:DB-5

Ext. Vol(ul):20.0 Inj. Vol(ul):2.0 Sample Data Filename: A105231#9

Analysis Date: 30-JUL-99 Time: 05:34:47 Blank Data Filename: A105231#2

Dilution Factor: 1 Cal. Ver. Data Filename: A105229#6

	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT	(1)	RATIO (2)	(2')	RRF
2,3,7,8-TCDD	*	0.405	U .	*	*	1.48
1,2,3,7,8-PeCDD	*	0.696	Ū	*	*	1.11
1,2,3,4,7,8-HxCDD	2.4615	0.774	7A-	0.96	1.001	0.74
1,2,3,6,7,8-HxCDD	*	0.521	Ū	*	*	1.10
1,2,3,7,8,9-HxCDD	5 (C) 1 (M)	0.597	U -	*	*	0.96
1,2,3,4,6,7,8-HpCD	D 45.687	1.005	•	1.01	1.000	1.14
OCDD	698.404	1.044		0.89	1.000	1.11
2,3,7,8-TCDF	-2-499 N	ل 0.383 ل	C	0.72	1.002	1.15
1,2,3,7,8-PeCDF	*	0.458	U	*	*	0.98
2,3,4,7,8-PeCDF	*	0.463	Ū	• ★,	*	0.97
1,2,3,4,7,8-HxCDF	3.476 J	0.830	ZHU	1.21	1.000	1.03
1,2,3,6,7,8-HxCDF	*	0.622	์ ซ	*	• •	1.38
1,2,3,7,8,9-HxCDF	* .	0.985	U	*	. *	0.87
2,3,4,6,7,8-HxCDF	• • • • • • • • • • • • • • • • • • •	0.727	U	*	*	1.18
1,2,3,4,6,7,8-HpCD	F 10.253	1.228		1.02	1.000	1.44
1,2,3,4,7,8,9-HpCL		1.729	U.	· 🛨	*	1.02
OCDF	34.709	1.162		0.91	1.004	1.21
Total Tetra-Dioxin	ıs *	0.405	U		•	
Total Penta-Dioxin	ıs *	0.696	U		•	
Total Hexa-Dioxins	3.775	0.521		•		•
Total Hepta-Dioxir	ns 89.484	1.005				
Total Tetra-Furans		0.383			· · ·	
Total Penta-Furans	32.742	0.463				
Total Hexa-Furans	10.454	0.622				
Total Hepta-Furans	46.088	1.228				
(1) Ounlificant II -		octod. V c	T 70	MDC C - 110	0.1123.10	

⁽¹⁾ Qualifiers: U and * - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

roe fin to a

⁽²⁾ RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290Fl

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284196

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39412

Client Name: E&E-WA

Lab Sample ID: 39412.06

Matrix (aqueous/solid/leachate): solid

Sample Wt/Vol: 10.42 g or mL: g

Sample Receipt Date: 07-14-99

Initial Calibration Date: 07-01-99

Ext. Date: 07-16-99 Shift:

Instrument ID: AutoSpec

Analysis Date: 30-JUL-99 Time: 04:46:01

GC Column ID: DB-5

Extract Volume(ul): 20.0

Sample Data Filename: A105231#8

Injection Volume(ul): 2.00

Blank Data Filename: A105231#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105229#6

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Moisture: 7.57

	· •		
	CONCENTRATION	TEF(1)	TEF-ADJUSTED CONCENTRATION
2,3,7,8-TCDD	*	X 1.0	*
1,2,3,7,8-PeCDD	1 1 ± • • • • • • • • • • • • • • • • •	X 0.5	•
1,2,3,4,7,8-HxCDD	*	X 0.1	•
1,2,3,6,7,8-HxCDD	*	X 0.1	*
1,2,3,7,8,9-HxCDD	*	X 0.1	*
1,2,3,4,6,7,8-HpCDD	4.65	X 0.01	4.65e-02
OCDD	39.27	X 0.001	3.93e-02
2,3,7,8-TCDF	*	X 0.1	*
1,2,3,7,8-PeCDF	*	X 0.05	*
2,3,4,7,8-PeCDF	*	X 0.5	*
1,2,3,4,7,8-HxCDF	*	X 0.1	*
1,2,3,6,7,8-HxCDF	*	X 0.1	*.
1,2,3,7,8,9-HxCDF	•	X 0.1	*
2,3,4,6,7,8-HxCDF	*	X 0.1	*
1,2,3,4,6,7,8-HpCDF	1.95	X 0.01	1.95e-02
1,2,3,4,7,8,9-HpCDF	*	X 0.01	*
OCDF	5.25	X 0.001	5.25e-03
			•

Total: 1.105e-03

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate (EPA/625/3-89/016, March 1989.'

CLIENT ID.

PCDD/PCDF ANALYSIS DATA SHEET Use for Sample and Blank Results

99284196

ab Name: Southwest Lab. of Oklahoma Episode No.: 39412

Lab Code: SWL Case No.:

SDG No.:

Lab Sample ID: 39412.06

Client Name: E&E-WA

Sample Wt/Vol: 10.42

g or mL: g

Matrix (aqueous/solid/leachate): solid

Initial Calibration Date: 07-01-99

Sample Receipt Date: 07-14-99

Instrument ID: AutoSpec

Ext. Date: 07-16-99

GC Column:DB-5

Ext. Vol(ul):20.0

Inj. Vol(ul):2.0 Sample Data Filename: A105231#8

Analysis Date: 30-JUL-99 Time: 04:46:01 Blank Data Filename: A105231#2

Dilution Factor: 1

Cal. Ver. Data Filename: A105229#6

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg

% Moisture: 7.57

	CONCENTRATION	DETECTION	Qual.	ION ABUND.	RRT	MEAN
ANALYTE	FOUND	LIMIT .	(1)	RATIO (2)	(2)	RRF
2,3,7,8-TCDD	*	0.355	U	*	· *	1.48
1,2,3,7,8-PeCDD	*	0.414	Ū	*	*	1.11
1,2,3,4,7,8-HxCDI	D *	0.687	Ū	*	*	0.74
1,2,3,6,7,8-HxCDI		0.463	U	* *	*	1.10
1,2,3,7,8,9-HxCDI		0.530	Ū	* *	*	0.96
1,2,3,4,6,7,8-Hp		0.857		1.14	1.000	1.14
OCDD	39.274	0.748		0.84	1.000	1.11
2,3,7,8-TCDF	*	0.258	Ù	*	*	1.15
1,2,3,7,8-PeCDF	*	0.480	Ū	*	* *	0.98
2,3,4,7,8-PeCDF	*	0.485	ับ	* :	*	0.97
1,2,3,4,7,8-HxCD	F *	0.636	. บั	*	*	1.03
1,2,3,6,7,8-HxCD		0.477	บ	*	*	1.38
1,2,3,7,8,9-HxCD	•	0.755	บ	*	*	0.87
2.3.4.6.7.8-HxCD	F *	0.558	U	*	*	1.18
1,2,3,4,6,7,8-Hp	CDF 1.951	0.637		1.09	1.000	1.44
1,2,3,4,7,8,9-Hp	CDF *	0.897	ָּט	*	*	1.02
OCDF	5.248	1.262		0.95	1.004	1.21
Total Tetra-Diox	ins *	0.355	U			,
Total Penta-Diox		0.414	ับ			
Total Hexa-Dioxi		0.463	•	•	•	
Total Hepta-Diox		0.857				
Total Tetra-Fura		0.258		,		
Total Penta-Fura		0.485		•	•	
Total Hexa-Furan		0.477				
Total Hepta-Fura	* .	0.637		,		
(1) Oualifiers: II	•		E T - E	MDC C - 1194	value	

Qualifiers: U and * - not detected; X & I - EMPC. C - use value from second column analysis. B - possible blank contamination.

⁽²⁾ RRTs and ion ratios are specified in Tables 11 and 8, Method 8290. 8290F1

USEPA, ITD 1DFB

EPA SAMPLE NO.

PCDD/PCDF TOXICITY EQUIVALENCE SUMMARY Use for Sample and Blank Results

99284195

Lab Name: SOUTHWEST LAB. OF OKLAHOMA

Episode No.: 39412

Client Name: E&E-WA

Lab Sample ID: 39412.05

Matrix (aqueous/solid/leachate): aqueous Sample Wt/Vol: 1000

g or mL: mL

Sample Receipt Date: 07/14/99

Initial Calibration Date: 07/01/99

Ext. Date: 07/16/99 Shift:

Instrument ID: AutoSpec

Analysis Date: 27-JUL-99 Time: 19:27:47 GC Column ID: DB-5

Extract Volume (ul): 20.0

Sample Data Filename: A105216#12

Injection Volume (ul): 2.00

Blank Data Filename: A105216#3

Dilution Factor: 1

Cal. Ver. Data Filename: A105216#1

Concentration Units (pg/L or ng/Kg dry weight): pg/L % Moisture:

CONCENTRATION TEF(1) TEF-ADJUSTED CONCENTRATION	
·	
2,3,7,8-TCDD * X 1.0 *	
1,2,3,7,8-PeCDD * X 0.5 *	
1,2,3,4,7,8-HxCDD * X 0.1 *	• • • • • • • • • • • • • • • • • • • •
1,2,3,6,7,8-HxCDD * X 0.1 *	
1,2,3,7,8,9-HxCDD * X 0.1 *	
1,2,3,4,6,7,8-HpCDD * X 0.01 *	_
OCDD <u>9.70 X 0.001</u> 9.70e-03	U &0
2,3,7,8-TCDF * X 0.1 *	
1,2,3,7,8-PeCDF * X 0.05 *	***
2,3,4,7,8-PeCDF * X 0.5 *	
1,2,3,4,7,8-HxCDF	
1,2,3,6,7,8-HxCDF * X 0.1 *	
1,2,3,7,8,9-HxCDF * X 0.1 *	• • •
2,3,4,6,7,8-HxCDF * X 0.1 *	
1,2,3,4,6,7,8-HpCDF * X 0.01 *	
1,2,3,4,7,8,9-HpCDF * X 0.01 *	
OCDF * X 0.001 *	

*Total: 9.701e-03

40

6/90

⁽¹⁾ Taken from 'Interim Procudures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxin and -Dibenzofurans (CDDs and CDFs) and 1989 Udate (EPA/625/3-89/016, March 1989.'

^{*} Total TEF is calculated by summing up all positively identified isomers of each homologous series.

Data vanaanon керогі - Wenatchee Brownfields

Case No.: 27165 SDG: JW542

ESW10-3-1379 Page 3 of 6

Compound Quantitation and Detection Limits

All of the samples were analyzed at the contract required quantitation limits (CRQLs) with the following exceptions:

Pest/PCB samples JW570, JW571 and JW572 were analyzed at dilutions of 20X, 2X and 10X respectively, due to matrix interferences.

Target compounds that were detected at concentrations less than the CRQLs were qualified as estimated, "J". Detected compounds at concentrations over the calibration range were qualified as estimated, "J". Data users should consider these estimated compounds as the minimum amount present in the samples. It is also recommended that for these compounds, data users should utilize the concentrations reported from the dilution runs. All of the reported results were adjusted for sample amounts analyzed.

Blanks

Acetone and 2-hexanone were detected below the CRQL in the VOA blanks VBLKU4 and VBLKB9. Acetone and 2-hexanone detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Methylene chloride was detected below the CRQL and acetone was detected slightly above the CRQL in the VOA blank VHBLKB7. Methylene chloride and acetone detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Alpha-BHC, beta-BHC, heptachlor, aldrin, heptachlor epoxide, dieldrin, 4,4'-DDE, 4,4'-DDD, endosulfan sulfate, 4,4'-DDT, endrin aldehyde and gamma chlordane were detected below the CRQL in the Pest/PCB blank PBLKNX. Alpha-BHC, beta-BHC, heptachlor, aldrin, heptachlor epoxide, dieldrin, 4,4'-DDE, 4,4'-DDD, endosulfan sulfate, 4,4'-DDT, endrin aldehyde and gamma chlordane detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

4,4'-DDE, endrin, 4,4'-DDT and methoxychlor were detected below the CRQL in the Pest/PCB blank PBLKNJ. 4,4'-DDE, endrin, 4,4'-DDT and methoxychlor detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

Alpha-BHC was detected below the CRQL in the Pest/PCB blanks PBLKDJ and PBLKOJ. Alpha-BHC detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

Alpha-BHC, dieldrin, 4,4'-DDE, 4,4'-DDD, endosulfan sulfate, 4,4'-DDT and gamma-chlordane were detected below the CRQL in the Pest/PCB blank PBLKXN. Alpha-BHC, dieldrin, 4,4'-DDE, 4,4'-DDD, endosulfan sulfate, 4,4'-DDT and gamma-chlordane detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

Analytical Sequence - Acceptable

All of the standards, blanks, samples, and QC samples were analyzed in accordance with the SOW specified analytical sequence.

System Monitoring Compounds (SMC)/Surrogate Spikes

All of the VOA SMC recoveries met the applicable QC criteria with the following exception:

JP415

bromofluorobenzene 44%

JP415RE

toluene-d8 145%

Case No.: 27165 SDG: JW542

ESW10-3-1379 Page 4 of 6

The associated internal standard, chlorobenzene-d5, was low in both samples. Results for sample JP415 were qualified as estimated, "J/UJ". None of the results for sample JP415RE were qualified on the basis of SMC recovery.

All of the SVOA surrogates recoveries met the applicable QC criteria with the following exceptions:

JP413 2,4,6-tribromophenol 126%. None of the data were qualified on this basis.

All of the Pest/PCB surrogate spike recoveries met the applicable QC criteria (30-150%).

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

VOA sample JW542 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses.

SVOA sample JW542 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses with the following exceptions:

The RPDs between JW542MS and JW542MSD were 47% for 4-chloro-3-methylphenol and 20% for acenaphthene.

Pest/PCB sample JW542 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses.

No data qualification was applied based on MS/MSD analysis.

Internal Standards

The acceptance criteria for internal standards (IS) are ±30 seconds for retention time (RT) shifts and -50% to +100% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the GC/MS analyses met the IS area and retention time shift criteria with following exceptions:

VOA JP415

chlorobenzene-d5 -58%

JP415RE

chlorobenzene-d5 -60%

Sample JP415 was already qualified on the basis of SMC recovery. Due to the low internal standard area the associated results of sample JP415RE were qualified as estimated, "J/UJ".

Compound Identification

All of the compounds detected in the GC/MS analyses were within the retention time windows, met the USEPA spectral matching criteria and were judged to be acceptable.

Single component pesticides and aroclors were qualified as follows: where %Ds (between two column concentrations) > 30% but ≤ 60% - detected results were qualified as estimated, "J"; %Ds > 60% with concentrations > CRQL - results were qualified as tentatively identified at the estimated concentration, "JN"; %Ds > 60% with concentrations < CRQL - results were qualified as non-detects, "U"; %Ds > 400% - results were qualified as non-detects with raised quantitation limit if > CRQL. In cases where %Ds < 60% with concentrations < CRQL and chromatographic interferences, the results were qualified as non-detects, "U". In cases where %Ds < 400% with concentrations > CRQL and chromatographic interferences, the results were qualified as tentatively identified at the estimated concentration, "JN".

recycled paper

ecology and maironment

Case No.: 27165 SDG: JW542 ESW10-3-1379 Page 5 of 6

Tentatively Identified Compounds

Peaks that were detected in the samples at areas >10% of the internal standards and were not part of the target compound lists were identified as tentatively identified compounds (TICs). TICs that were both found in the sample and in the associated method blank(s) were qualified as unusable, "R." Peaks that were identified as common laboratory contaminants, solvent preservatives, column bleed or aldol condensation products were qualified as unusable, "R". The rest of the peaks identified as TICs were qualified "NJ", tentatively identified at an estimated concentration.

Laboratory Contact

The laboratory was contacted by Region 10 concerning the following items:

FORM VII PEST-1 is incomplete for PEM50 analyzed on 8/10/99 at 19:04.

Hard copies of all resubmissions will be sent to Region 10.

Overall Assessment

All of the samples were analyzed in accordance with the SOW specifications. The data, as qualified, are acceptable and can be used for all purposes.

Data Qualifiers

TT		The analyte was not detected at or above the reported result.
1.7	-	I he analyte was not detected at or above the reported result
		inc analytic was not detected at or above the reported result.

The analyte was positively identified. The associated numerical result is an estimate.

R - The data are unusable for all purposes.

N - There is evidence the analyte is present in this sample.

JN - There is evidence that the analyte is present. The associated numerical result is an estimate.

UJ - The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.

Holding Time Summary - Case 27165

SDG: JW542

Sample Number	Collection Date	VTSR	VOA Analysis	SVOA Extraction	SVOA Analysis	Pest/PCB Extraction	Pest/PCB Analysis
ЈР411	7/8/99	7/9/99	7/15/99	7/9/99	7/14/99	7/9/99	8/11/99
JP412	7/8/99	7/9/99	7/15/99	7/9/99	7/13/99	7/9/99	8/11/99
JP413	7/8/99	7/9/99	7/15/99	7/9/99	7/14/99	7/9/99	8/11/99
JP415	7/8/99	7/10/99	7/15/99	7/12/99	7/15/99	7/13/99	8/11/99
JP416	7/8/99	7/10/99	7/15/99	7/12/99	7/15/99	7/13/99	8/11/99
ЈР417	7/8/99	7/10/99	7/15/99	7/12/99	7/15/99	7/13/99	8/11/99
JW542	. 7/1/99	7/3/99	7/13/99	7/8/99	7/13/99	7/8/99	8/11/99
JW545	7/1/99	7/3/99	7/13/99	7/8/99	7/13/99	7/8/99	8/11/99
JW546	7/1/99	7/3/99	7/13/99	7/8/99	7/13/99	7/8/99	8/11/99
JW564	7/1/99	7/3/99	7/13/99	7/8/99	7/13/99	7/8/99	8/11/99
JW565	7/1/99	7/3/99	7/13/99	7/8/99	7/13/99	7/8/99	8/11/99
JW570-	7/6/99	7/8/99	NA	NA	NA	7/9/99	8/11/99
JW571	7/6/99	7/8/99	NA	NA .	NA	7/9/99	8/11/99
JW572	7/6/99	7/8/99	NA	NA NA	NA	7/9/99	8/11/99
JW573	7/6/99	7/8/99	NA	NA	NA	7/9/99	8/11/99
JW574	7/6/99	7/8/99	7/15/99	7/9/99	7/14/99	7/9/99	8/11/99
JW575	7/6/99	7/8/99	7/15/99	7/9/99	7/14/99	7/9/99	8/11/99
JW578	7/7/99	7/9/99	7/15/99	7/9/99	7/14/99	7/9/99	8/11/99
JW579	<i>7/7/</i> 99	7/9/99	7/15/99	7/9/99	7/14/99	7/9/99	8/11/99
JW580	7/7/99	7/9/99	7/15/99	7/9/99	7/13/99	7/9/99	8/11/99
JW415RE	7/8/99	7/10/99	7/15/99	NA	NA	NA	NA.
JW575DL	7/6/99	7/8/99	NA	7/9/99	7/15/99	NA	NA
JP415DL	7/8/99	7/10/99	NA ·	NA	NA	7/13/99	8/13/99
JW542DL	7/1/99	7/3/99	NA	NA	NA NA	7/8/99	8/13/99
JW546DL	7/1/99	7/3/99	NA	NA	NA	7/8/99	8/13/99
JW565DL	7/1/99	7/3/99	NA	. NA	NA	7/8/99	8/13/99
JW570DL	7/6/99	7/8/99	NA	NA	NA	7/9/99	8/13/99
JW572DL	7/6/99	7/8/99	NA	NA	NA	7/9/99	8/13/99

Lab Name: COMPUCHEM Contract: 68D50004 JP411

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (goil/e-to-) GOTI

Matrix: (soil/water) SOIL Lab Sample ID: 950008

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH050008A51

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: not dec. 18 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

74-87-3					
75-01-4	74-87-3	Chloromethane	.:	:	
75-00-3	74-83-9	Bromomethane	ŀ		
75-09-2	75-01-4	Vinyl Chloride			
67-64-1	75-00-3	Chloroethane	*	. 12	U
75-341,1-Dichloroethene 75-34-31,1-Dichloroethane 540-59-01,2-Dichloroethene (total) 67-66-3Chloroform 107-06-21,2-Dichloroethane 71-55-61,1,1-Trichloroethane 71-55-61,1,1-Trichloroethane 75-27-4Bromodichloromethane 78-87-51,2-Dichloropropane 10061-01-5cis-1,3-Dichloropropene 79-01-6Trichloroethene 12 U 124-48-1Dibromochloromethane 79-00-51,1,2-Trichloroethane 79-00-51,1,2-Trichloroethane 79-00-5Benzene 10061-02-6trans-1,3-Dichloropropene 75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 12 U 178-4Tetrachloroethene 12 U 179-34-51,1,2,2-Tetrachloroethane 12 U 108-88-3Toluene 100-41-4Ethylbenzene 100-42-5Styrene	75-09-2	Methylene Chloride		12 3	ZU
75-341,1-Dichloroethene 75-34-31,1-Dichloroethane 540-59-01,2-Dichloroethene (total) 67-66-3Chloroform 107-06-21,2-Dichloroethane 71-55-61,1,1-Trichloroethane 71-55-61,1,1-Trichloroethane 75-27-4Bromodichloromethane 78-87-51,2-Dichloropropane 10061-01-5cis-1,3-Dichloropropene 79-01-6Trichloroethene 12 U 124-48-1Dibromochloromethane 79-00-51,1,2-Trichloroethane 79-00-51,1,2-Trichloroethane 79-00-5Benzene 10061-02-6trans-1,3-Dichloropropene 75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 12 U 178-4Tetrachloroethene 12 U 179-34-51,1,2,2-Tetrachloroethane 12 U 108-88-3Toluene 100-41-4Ethylbenzene 100-42-5Styrene	67-64-1	Acetone		37	事以
75-341,1-Dichloroethene 75-34-31,1-Dichloroethane 540-59-01,2-Dichloroethene (total) 67-66-3Chloroform 107-06-21,2-Dichloroethane 71-55-61,1,1-Trichloroethane 71-55-61,1,1-Trichloroethane 75-27-4Bromodichloromethane 78-87-51,2-Dichloropropane 10061-01-5cis-1,3-Dichloropropene 79-01-6Trichloroethene 12 U 124-48-1Dibromochloromethane 79-00-51,1,2-Trichloroethane 79-00-51,1,2-Trichloroethane 79-00-5Benzene 10061-02-6trans-1,3-Dichloropropene 75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 12 U 178-4Tetrachloroethene 12 U 179-34-51,1,2,2-Tetrachloroethane 12 U 108-88-3Toluene 100-41-4Ethylbenzene 100-42-5Styrene	75-15-0	Carbon Disulfide		1	J
12 U 107-06-3	75-35-4	1,1-Dichloroethene	,		U
67-66-3 Chloroform 12 U 107-06-2 1, 2-Dichloroethane 12 U 78-93-3 9 J 1 71-55-6 1, 1-Trichloroethane 12 U 56-23-5 Carbon Tetrachloride 12 U 75-27-4 Bromodichloromethane 12 U 78-87-5 1, 2-Dichloropropane 12 U 10061-01-5 1, 3-Dichloropropene 12 U 79-01-6 1, 2-Trichloroethane 12 U 79-00-5 1, 2-Trichloroethane 12 U 70-43-2 Benzene 12 U 1061-02-6	75-34-3	1,1-Dichloroethane	l' .	12	ט
67-66-3 Chloroform 12 U 107-06-2 1, 2-Dichloroethane 12 U 78-93-3 9 J 1 71-55-6 1, 1-Trichloroethane 12 U 56-23-5 Carbon Tetrachloride 12 U 75-27-4 Bromodichloromethane 12 U 78-87-5 1, 2-Dichloropropane 12 U 10061-01-5 1, 3-Dichloropropene 12 U 79-01-6 1, 2-Trichloroethane 12 U 79-00-5 1, 2-Trichloroethane 12 U 70-43-2 Benzene 12 U 1061-02-6	540-59-0	1,2-Dichloroethene (total)		12	U
78-93-32-Butanone 9 71-55-61,1,1-Trichloroethane 12 56-23-5Carbon Tetrachloride 12 75-27-4Bromodichloromethane 12 78-87-51,2-Dichloropropane 12 10061-01-5cis-1,3-Dichloropropene 12 79-01-6Trichloroethane 12 12-4-48-1Dibromochloromethane 12 79-00-51,1,2-Trichloroethane 12 10-43-2Benzene 2 10061-02-6trans-1,3-Dichloropropene 12 75-25-2Bromoform 12 108-10-14-Methyl-2-Pentanone 12 127-18-4Tetrachloroethene 12 108-88-3Toluene 12 108-88-3Toluene 12 108-90-7Chlorobenzene 12 100-41-4Ethylbenzene 12 100-42-5Styrene	67-66-3	Chloroform		. 12	U
71-55-61,1,1-Trichloroethane 56-23-5Carbon Tetrachloride 75-27-4Bromodichloromethane 78-87-51,2-Dichloropropane 10061-01-5cis-1,3-Dichloropropene 79-01-6Trichloroethene 12 U 12 U 14-48-1Dibromochloromethane 79-00-51,1,2-Trichloroethane 71-43-2Benzene 10061-02-6trans-1,3-Dichloropropene 75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 12 U 12 U 13 U 14 U 15 U 15 U 16 U 17 U 18	107-06-2	1,2-Dichloroethane		12	ט
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75-27-4Bromodichloromethane 78-87-51,2-Dichloropropane 10061-01-5cis-1,3-Dichloropropene 79-01-6Trichloroethene 124-48-1Dibromochloromethane 79-00-51,1,2-Trichloroethane 71-43-2Benzene 10061-02-6trans-1,3-Dichloropropene 75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 127-18-4Tetrachloroethene 79-34-51,1,2,2-Tetrachloroethane 108-88-3Toluene 108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene	56-23-5	Carbon Tetrachloride			
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79-00-51,1,2-Trichloroethane 71-43-2Benzene 10061-02-6trans-1,3-Dichloropropene 75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 591-78-62-Hexanone 127-18-4Tetrachloroethene 79-34-51,1,2,2-Tetrachloroethane 108-88-3Toluene 108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene	124-48-1	Dibromochloromethane			
71-43-2Benzene 2 J 10061-02-6trans-1,3-Dichloropropene 12 U 75-25-2Bromoform 12 U 108-10-14-Methyl-2-Pentanone 12 U 591-78-62-Hexanone 12 U 127-18-4Tetrachloroethene 12 U 79-34-51,1,2,2-Tetrachloroethane 12 U 108-88-3Toluene 12 U 108-90-7Chlorobenzene 12 U 100-41-4Ethylbenzene 12 U 100-42-5Styrene 12 U	79-00-5	1 1 2-Trichloroethane			
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75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 12 U 1591-78-62-Hexanone 127-18-4Tetrachloroethene 12 U 179-34-51,1,2,2-Tetrachloroethane 108-88-3Toluene 108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene	10061-02-6	trans-1_3-Dichloropropene			
108-10-14-Methyl-2-Pentanone 12 U 591-78-62-Hexanone 12 U 127-18-4Tetrachloroethene 12 U 79-34-51,1,2,2-Tetrachloroethane 12 U 108-88-3Toluene 12 U 108-90-7Chlorobenzene 12 U 100-41-4Ethylbenzene 24 U 100-42-5Styrene 12 U	75-25-2	Bromoform	1 .		
591-78-62-Hexanone 12 U 127-18-4Tetrachloroethene 12 U 79-34-51,1,2,2-Tetrachloroethane 12 U 108-88-3Toluene 12 U 108-90-7Chlorobenzene 12 U 100-41-4Ethylbenzene 24 U 100-42-5Styrene 12 U	108-10-1	4-Methyl-2-Pentanone	ļ		
127-18-4Tetrachloroethene 12 U 79-34-51,1,2,2-Tetrachloroethane 12 U 108-88-3Toluene 12 U 108-90-7Chlorobenzene 12 U 100-41-4Ethylbenzene 24 U 100-42-5Styrene 12 U	591-78-6	2-Hevanone			
79-34-51,1,2,2-Tetrachloroethane 108-88-3Toluene 108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene	127-18-4	Tetrachloroethere	• [
108-88-3Toluene 108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene	79-34-5	1 1 2 2-Totrachlorothans			
108-90-7Chlorobenzene 12 U 100-41-4Ethylbenzene 24 100-42-5Styrene 12 U	108-88-3	Toluene			
100-41-4Ethylbenzene 24 100-42-5Styrene 12 17	108-90-7-	Chlorobongono			1
100-42-5Styrene	100-41-4	Ethylhongono			1 - 1
1330-20-7Xylene (Total) 90 90	100-42-5-	bulytbenzene			l
1330-20-7Aylene (Total)90	1330 20 7	Styrelle			υ
	1330-20-1	xyteue (local)		90	
			1		

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP411

Lab Name: COMPUCHEM

Contract: 68D50004

SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950008

Sample wt/vol:

Lab Code: COMPU

5.0 (g/mL) g

Case No.: 27165

Lab File ID: gh050008a51

Level: (low/med) LOW

Date Received: 07/09/99

% Moisture: not dec. 18

Number TICs found: 25

Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number 1105 Found						
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.			
1. 2. 3.	SUBSTITUTED CYCLOHEXANE SUBSTITUTED ALKANE SUBSTITUTED ALKANE UNKNOWN HYDROCARBON	19.76 19.98 20.09 20.30	18 10 26 14			

	1 2.	SUBSTITUTED ALKANE	19.98	. •	10	J	
	3.	SUBSTITUTED ALKANE	20.09		26 3	J	1
	4.	UNKNOWN HYDROCARBON	20.30		14	J	
	5.	UNKNOWN CYCLIC HYDROCARBON	20.49		16	J	1
	6	SUBSTITUTED BENZENE	20.73		40 3	J	
	7.	SUBSTITUTED BENZENE	20.82		40	ן ן	
	8.	UNKNOWN CYCLIC HYDROCARBON	20.92		25 1	J	
	9.	SUBSTITUTED BENZENE	21.04		11	J	ľ
	10.	SUBSTITUTED BENZENE	21.21		97	J .	١,
	11.	SUBSTITUTED BENZENE	21.40		14	J	
	12.	SUBSTITUTED BENZENE	21.50			J l	11
	13.	SUBSTITUTED BENZENE	21.67			J	
	14.	SUBSTITUTED BENZENE	21.90	•	34	J.	h
	15.	SUBSTITUTED BENZENE	21.96			J	
	16.	SUBSTITUTED BENZENE	22.19		8	J	1
٠	17.	SUBSTITUTED BENZENE	22.31		25	J	
	18.	SUBSTITUTED BENZENE	22.40	•	17	J	h
	19.	SUBSTITUTED BENZENE	22.56			J.	Ш
	20.	SUBSTITUTED BENZENE	22.78		11	J	ľ
	21.	SUBSTITUTED BENZENE	22.89		17	J i	1
	22.	SUBSTITUTED BENZENE	22.96		25	J	\parallel
	23.	SUBSTITUTED BENZENE	23.07		19	J	Ш
	24.	SUBSTITUTED BENZENE	23.27		9	J	1
	25.	SUBSTITUTED BENZENE	23.35		10	J₩	1,
	26.			•			
	27.				·		11
	28.						
	29.	The second secon					. II
	30.						$\ $
							II.

CP 8.31-99

FORM I VOA-TIC

OLM03.0

VOLATILE ORGANICS ANALYSIS DATA SHEET

JP412 Contract: 68D50004

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950017

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH050017A51

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: not dec. 5 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

CAS NO.	COMPOUND	(ug/L or ug/K	g) ug/kg	Q 	
75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 78-93-3 71-55-6 75-27-4 75-27-4 10061-01-5 79-01-6	-Bromomethane -Vinyl Chloride -Chloroethane -Methylene Chloride -Acetone -Carbon Disulfide -1,1-Dichloroether -1,2-Dichloroether -1,2-Dichloroethar -1,2-Dichloroethar -1,2-Dichloroethar -1,2-Dichloroethar -2-Butanone -1,1,1-Trichloroethar -2-Bromodichloromether -1,2-Dichloroproper -cis-1,3-Dichloroproper -cis-1,3-Dichloroproper -Trichloroethene -Dibromochloromether -1,1,2-Trichloroether -1,1,2-Trichloroether -1,1,2-Trichloroether -1,1,2-Trichloroether -1,1,2-Trichloroether -1,1,2-Trichloroether -1,1,2-Trichloroether -1-Toluene	de	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ממממממממממממממממממממממממממממ עט	
79-34-5 108-88-3 108-90-7 100-41-4 100-42-5	1,1,2,2-Tetrachl Toluene Chlorobenzene Ethylbenzene	oroethane	10	บ บ บ	• .

CP g-31-99 OLMO3.0

FORM I VOA

VOLATIĻE	ORGANIC	S ANALY	SIS DA	ATA	SHEET
TENTA	TIVELY	IDENTIF	IED Č	OMPO	UNDS

Lab Name: COMPUCHEM Contract: 68D50004 JP412

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950017

Sample wt/vol:

5.0 (g/mL) g

Lab File ID:

gh050017a51

Level: (low/med)

Date Received: 07/09/99

% Moisture: not dec. 5

Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

Soil Aliquot Volume: (u

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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2.	ABORATORY ARTIFACT Lab Confamination	22.54	9	J R
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FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

JP413 Contract: 68D50004

Lab Name: COMPUCHEM Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950018

Sample wt/vol:

5.0 (g/mL) g

Lab File ID: GH050018A51

Level: (low/med)

LOW

Date Received: 07/09/99

Date Analyzed: 07/15/99

% Moisture: not dec. 15

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: _____

CAS NO.

Soil Extract Volume: ____

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

1			
74-87-3Chloromethane	:	1.2	υ
74-87-3Bromomethane		12	.U
75-01-4Vinyl Chloride		12	υ.
75-01-4Villy1 Chioride		12	U
75-00-3Chioroechane		12 2	JU
75-09-2Methylene Chloride		14	J U É U
67-64-1Acetone		12	ับ
75-15-0Carbon Disulfide		12	Ū
75-35-41,1-Dichloroethene		12	Ū
75-34-31,1-Dichloroethane		12	
540-59-01,2-Dichloroethene (total)		12	
67-66-3Chloroform		12	
107-06-21,2-Dichloroethane		12	
78-93-32-Butanone			1 -
71-55-61,1,1-Trichloroethane		12	1 -
56-23-5Carbon Tetrachloride		12	
75-27-4Bromodichloromethane		12	U
78-87-51,2-Dichloropropane		12	U
10061-01-5cis-1,3-Dichloropropene		12	U
79-01-6Trichloroethene		12	U
124-48-1Dibromochloromethane		12	1
79-00-51,1,2-Trichloroethane	1	12	1 -
71-43-2Benzene		12	1 -
10061-02-6trans-1,3-Dichloropropene	1	12	_
75-25-2Bromoform		12	
108-10-14-Methyl-2-Pentanone		12	U
591-78-62-Hexanone	•	12	
127-18-4Tetrachloroethene	·	12	ָּע
79-34-51,1,2,2-Tetrachloroethane	- [12	: U
108-88-3Toluene	- '	12	יט
108-90-7Chlorobenzene		12	U
100-41-4Ethylbenzene			Ū
		12	- 1 -
100-42-5Styrene	-	12	- ; -
1330-20-7Xylene (Total)	-	غ. <u>د</u>	
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VOLATILE	ORGANIC	S ANALYSIS	DATA	SHEET
TENT	ATIVELY :	IDENTIFIED	COMPO	DUNDS

Lab Name: COMPUCHEM Contract: 68D50004 JP413

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950018

Sample wt/vol:

5.0 (g/mL) g

Lab File ID: gh050018a51

Level: (low/med)

Date Received: 07/09/99

% Moisture: not dec. 15

Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Soil Aliquot Volume:

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004 JP415
Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Eab code. Conto Cage No.: 27103 Bib No.: 550 No.: 6831

Matrix: (soil/water) SOIL Lab Sample ID: 950228

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH050228A51

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: not dec. 24 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

de columningollitoza ib. 0.55 (mm)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

		·· · · · · · · · · · · · · · · · · · ·
74-87-3Chloromethane		13 07
74-83-9Bromomethane		13 U
75-01-4Vinyl Chloride		13 U
75-00-3Chloroethane		13 U V _
75-09-2Methylene Chloride		13 X X UJ
67-64-1Acetone		13 オメリゴ 13 まずリゴ 13 リブ
75-15-0Carbon Disulfide	·	1'3 U'T
75-35-41,1-Dichloroethene		13 U
75-34-31,1-Dichloroethane		13 U
540-59-01,2-Dichloroethene (total)	· · :	13 U
67-66-3Chloroform		13 U
107-06-21,2-Dichloroethane		13 U
78-93-32-Butanone		13 U
71-55-61,1,1-Trichloroethane		13 ซี
56-23-5Carbon Tetrachloride		13 U
75-27-4Bromodichloromethane		13 U
78-87-51,2-Dichloropropane		13 U
10061-01-5cis-1,3-Dichloropropene		13 U
79-01-6Trichloroethene		13 0
124-48-1Dibromochloromethane		13 U
79-00-51,1,2-Trichloroethane		13 0
71-43-2Benzene		13 0
10061-02-6trans-1,3-Dichloropropene	1	13 0
75-25-2Bromoform		13 0
108-10-14-Methyl-2-Pentanone		13 0
591-78-62-Hexanone		13 0
127-18-4Tetrachloroethene		13 0
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79-34-51,1,2,2-Tetrachloroethane		,
108-88-3Toluene		13 U
108-90-7Chlorobenzene	1	13 U
100-41-4Ethylbenzene		13 U
100-42-5Styrene		13 U
1330-20-7Xylene (Total)		13 ប្រ 🗸
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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO	EPA	SAMPLE	NO
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Lab Name: COMPUCHEM	Contract: 68D50004
Lab Code: COMPU Case No.: 27165	SAS No.: SDG No.: JW542
Matrix: (soil/water) SOIL	Lab Sample ID: 950228
Sample wt/vol: 5.0 (g/mL) g	Lab File ID: gh050228a51
Level: (low/med) LOW	Date Received: 07/10/99
% Moisture: not dec. 24	Date Analyzed: 07/15/99
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume: (uI

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Cas number	COMPOUND NAME	RT :	EST. CONC.	Q R
· ·	LABORATORY ARTIFACT	20.56 22.51	22	T R
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FORM I VOA-TIC

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

JP415RE Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU SAS No.: SDG No.: JW542 Case No.: 27165 Matrix: (soil/water) SOIL Lab Sample ID: 950228 Sample wt/vol: 5.0 (g/mL) g Lab File ID: GR050228A51 Level: (low/med) Date Received: 07/10/99 LOW % Moisture: not dec. 24 Date Analyzed: 07/15/99 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Extract Volume:____(uL) Soil Aliquot Volume: ____(uL

; CONCENTRATION UNITS:

COMPOUND CAS NO. (ug/L or ug/Kg) ug/Kg Q 74-87-3-----Chloromethane 13 U 74-83-9-----Bromomethane 13 U 75-01-4-----Vinyl Chloride 13 U 75-00-3-----Chloroethane 13 U 75-09-2----Methylene Chloride_ 13 U 67-64-1-----Acetone 13 \$ J\$ U 75-15-0-----Carbon Disulfide 75-35-4----1,1-Dichloroethene_ 13 U 75-34-3-----1,1-Dichloroethane U 13 540-59-0----1,2-Dichloroethene (total) U 67-66-3-----Chloroform 107-06-2----1,2-Dichloroethane 13 78-93-3----2-Butanone 13 U 71-55-6-----1,1,1-Trichloroethane_ 13 U 56-23-5-----Carbon Tetrachloride 13 U 75-27-4-----Bromodichloromethane 13 U 78-87-5----1,2-Dichloropropane 13 U 10061-01-5----cis-1,3-Dichloropropene 79-01-6-----Trichloroethene 13 U 124-48-1-----Dibromochloromethane 79-00-5----1,1,2-Trichloroethane 71-43-2-----Benzene 13 U 10061-02-6----trans-1,3-Dichloropropene 13 | U 75-25-2-----Bromoform 13 U 108-10-1----4-Methyl-2-Pentanone 13 U J 591-78-6----2-Hexanone 13 | U 127-18-4-----Tetrachloroethene . 13 U. 79-34-5----1,1,2,2-Tetrachloroethane 13 U 108-88-3-----Toluene 13 U 108-90-7-----Chlorobenzene 13 U 100-41-4-----Ethylbenzene 13 U 100-42-5-----Styrene 13 I U 1330-20-7-----Xylene (Total) CP8-31-9

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP415RE Contract: 68D50004 Lab Name: COMPUCHEM SDG No.: JW542 Case No.: 27165 SAS No.: Lab Code: COMPU Lab Sample ID: 950228 Matrix: (soil/water) SOIL Lab File ID: gr050228a51 Sample wt/vol: 5.0 (g/mL) g Date Received: 07/10/99 Level: (low/med) LOW Date Analyzed: 07/15/99 % Moisture: not dec. 24 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

Soil Aliquot Volume: ____

(ug/L or ug/Kg) ug/Kg Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 71-23-8	1-PROPANOL LABORATORY ARTIFACT Lab Co.	11.50 20.57 22.51	8 313 35	NJ J R
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FORM I VOA-TIC

GH050229A51

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

5.0 (g/mL) g

Sample wt/vol:

Lab Name: COMPUCHEM Contract: 68D50004

Lab File ID:

CONCENTRATION UNITS:

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950229

Addity. (Bolly Water) Boll

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: not dec. 7 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

(ug/L or ug/Kg) ug/Kg COMPOUND CAS NO. 11 U 74-87-3-----Chloromethane 11 U 74-83-9-----Bromomethane 11 U 75-01-4-----Vinyl Chloride 11 U 75-00-3-----Chloroethane 11 U 75-09-2-----Methylene Chloride____ // \$ \$\$4 11 U 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 11 U 75-35-4----1,1-Dichloroethene 11 U 75-34-3-----1,1-Dichloroethane 540-59-0----1,2-Dichloroethene (total) 11 U 11 U 67-66-3-----Chloroform 107-06-2----1,2-Dichloroethane 11 U 78-93-3----2-Butanone 11 U 11 U 71-55-6----1,1,1-Trichloroethane_ 11 U 56-23-5-----Carbon Tetrachloride_ 11 U 75-27-4-----Bromodichloromethane 11 U 78-87-5----1,2-Dichloropropane 11 U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 U 79-00-5-----1,1,2-Trichloroethane_ 71-43-2----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene_ 11 | U 75-25-2-----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone 11 U 591-78-6----2-Hexanone 11 U 11 U 127-18-4-----Tetrachloroethene 11 | U 79-34-5----1,1,2,2-Tetrachloroethane_ 11 U 108-88-3-----Toluene 11 U 108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene__ 11 U 11 U 100-42-5-----Styrene 1330-20-7-----Xvlene (Total) 11 U

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FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

5.0 (g/mL) g

EPA SAMPLE NO.

gh050229a51

	: 1		V		DERITE TE	PD COMPOUNT			1		
Lab	Name:	COMPUCHEM		. :		Contract:	68D50004			JP416	
Lab	Code:	COMPU	Case	No.:	27165	SAS No		SDG	NO	TW542	

Lab File ID:

Soil Aliquot Volume:

Case No.: 27165 SAS No.: SDG No.: JW542 Matrix: (soil/water) SOIL

Lab Sample ID: 950229 Sample wt/vol:

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: not dec. 7 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:____(uL)

CONCENTRATION UNITS: Number TICs found: 2 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME RT	EST. CONC.	Q
1. 2.	LABORATORY ARTIFACT Lab Cond. 20. LABORATORY ARTIFACT 22.	59 24 54 21	=== J- 12 J- 12
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FORM I VOA-TIC

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

JP417 Contract: 68D50004 Lab Name: COMPUCHEM SDG No.: JW542 Case No.: 27165 SAS No.: Lab Code: COMPU Lab Sample ID: 950230 Matrix: (soil/water) SOIL Lab File ID: GH050230A51 5.0 (g/mL) gSample wt/vol: Date Received: 07/10/99 Level: (low/med) LOW Date Analyzed: 07/15/99 % Moisture: not dec. 34 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliquot Volume: ____ Soil Extract Volume: (uL) CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg CAS NO. COMPOUND

75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 75-27-4 78-87-5 10061-01-5 79-01-6	-Bromomethane -Vinyl Chloride -Chloroethane -Methylene Chloride -Acetone -Carbon Disulfide -1,1-Dichloroethane -1,2-Dichloroethane -1,2-Dichloroethane -1,2-Dichloroethane -2-Butanone -1,1-Trichloroethane -2-Butanone -1,1,1-Trichloroethane -1,2-Dichloromethane -Carbon Tetrachloride -Bromodichloromethane -1,2-Dichloropropane -cis-1,3-Dichloropropene -Trichloroethane	15 15 15 15 15 15 15 15 15	מממממממממממממ	
56-23-5 75-27-4 78-87-5 10061-01-5 79-01-6	-Carbon Tetrachloride -Bromodichloromethane -1,2-Dichloropropane -cis-1,3-Dichloropropene	15 15 15 15 15 15	บ บ บ บ	
71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 79-34-5 108-88-3	Benzenetrans-1,3-DichloropropeneBromoform4-Methyl-2-Pentanone2-HexanoneTetrachloroethene1,1,2,2-TetrachloroethaneToluene	15 15 15 15 15 15 15	ם ם ם ם ם	
100-41-4	Chlorobenzene Ethylbenzene Styrene Xylene (Total)	15 15 15	U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

		•		- 1	JP417
Lab Name: COMP	UCHEM	Contract:	68D50004	_	

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950230

Sample wt/vol: 5.0 (g/mL) gLab File ID: gh050230a51

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: not dec. 34 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume:

CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) ug/Kg

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Soil Aliquot Volume: ____(uL

JW542

Lab Name: COMPUCHEM Contract: 68D50004

Lab Name: COMPUCHEM Contract: 68D50004

Soil Extract Volume: (uL)

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949679

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH049679A51

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: not dec. 7 Date Analyzed: 07/13/99

GC Column: EOUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

11 0 5 74-87-3-----Chloromethane 74-83-9-----Bromomethane 11 U 75-01-4-----Vinyl Chloride 11 U 75-00-3-----Chloroethane 11 U 1/ g z u 34 B U 11 U 75-09-2-----Methylene Chloride____ 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 75-35-4----1,1-Dichloroethene_ 11 | U 75-34-3-----1,1-Dichloroethane 11 U 540-59-0----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane 11 U 78-93-3----2-Butanone_ 11 | U 71-55-6----1,1,1-Trichloroethane 11 U 56-23-5-----Carbon Tetrachloride 11 U 75-27-4----Bromodichloromethane 11 U 78-87-5-----1,2-Dichloropropane_ 11 U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 U 11 U 79-00-5----1,1,2-Trichloroethane 71-43-2----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene 11 U 75-25-2----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone 11 U 591-78-6----2-Hexanone 11 U 127-18-4----Tetrachloroethene 11 | U 79-34-5----1,1,2,2-Tetrachloroethane 11 U 108-88-3-----Toluene 11 U 108-90-7-----Chlorobenzene 11 U 100-41-4-----Ethylbenzene_ 11 U 100-42-5----Styrene 11 U 1330-20-7-----Xylene (Total) 11 U UP 5-31-99

FORM I VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA S	SAMP	LE	NO.

Lab Name: COMPUCHEM	Contract: 68D50	JW542
Lab Code: COMPU Case No.	: 27165 SAS No.:	SDG No.: JW542
Matrix: (soil/water) SOIL	Lab Sa	ample ID: 949679
Sample wt/vol: 5.0 (g/mL) g Lab Fi	ile ID: gh049679a51
Level: (low/med) LOW	Date F	Received: 07/03/99
% Moisture: not dec. 7	Date A	Analyzed: 07/13/99
GC Column: EQUITY624 ID: 0.5	3 (mm) Diluti	ion Factor: 1.0
Coil Extract Value	/T)	N7

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. Q.
	LABORATORY ARTIFACT Lab Cont.	20-60	
	LABORATORY ARTIFACT	$\frac{20.60}{22.56}$	14 J A
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VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949690

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH049690A51

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: not dec. 7 Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

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FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract: 68D50004 Lab Name: COMPUCHEM

JW546

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949691

5.0 (g/mL) g

Lab File ID: qh049691a51

Level: (low/med)

Sample wt/vol:

LOW

Date Received: 07/03/99

% Moisture: not dec. 20

Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53

(mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 18

				 1
CAS NUMBER	COMPOUND NAME	RT ,	EST. CONC.	Q =====
1. 2. 4551-51-3 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN HYDROCARBON 1H-INDENE, OCTAHYDRO-, CIS- UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON UNKNOWN CYCLIC HYDROCARBON UNKNOWN CYCLIC HYDROCARBON UNKNOWN CYCLIC HYDROCARBON SUBSTITUTED BENZENE SUBSTITUTED BENZENE DIETHYLBENZENE ISOMER DECAHYDRONAPHTHALENE ISOMER SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE	19.78 20.04 20.11 20.30 20.47 20.71 20.81 20.92 21.09 21.25 21.41 21.49 21.79 21.89 22.90	21 22 24 9 10 32 17	

FORM I VOA-T

Soil Aliquot Volume: ____(uL

VOLATILE ORGANICS ANALYSIS DATA SHEET

JW564 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU | Case No.: 27165 SAS No.: SDG No.: JW542 Matrix: (soil/water) SOIL Lab Sample ID: 949692 Sample wt/vol: Lab File ID: GH049692A51 5.0 (g/mī) g

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: not dec. 7 Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q ·

11 U J 74-87-3-----Chloromethane 74-83-9-----Bromomethane 11 U 75-01-4-----Vinyl Chloride 11 U 75-00-3-----Chloroethane_ 11 U 75-09-2----Methylene Chloride 11 U 11 \$ \$BU 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 75-35-4----1,1-Dichloroethene_ 11 U 75-34-3----1,1-Dichloroethane_ 540-59-0----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 | U 107-06-2----1,2-Dichloroethane 11 | U 78-93-3----2-Butanone 11 | U 71-55-6-----1,1,1-Trichloroethane 11 | U. 56-23-5-----Carbon Tetrachloride 11 U 75-27-4-----Bromodichloromethane 11 U 78-87-5----1, 2-Dichloropropane_ 11 | U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 U 79-00-5----1,1,2-Trichloroethane 11 I U 71-43-2----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene 11 U 75-25-2-----Bromoform 108-10-1----4-Methyl-2-Pentanone 11 | U 591-78-6----2-Hexanone 11 U 127-18-4-----Tetrachloroethene 11 | U 79-34-5-----1,1,2,2-Tetrachloroethane 11 U 108-88-3-----Toluene 11 U 108-90-7-----Chlorobenzene 11 U 100-41-4-----Ethylbenzene 11 U 100-42-5------Styrene 1330-20-7------Xylene (Total)_____ 11 U 11 U

FORM I VOA

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO
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Lab Name: COMPUCHEM	Contract: 68D50004
Lab Code: COMPU Case No.: 27165	SAS No.: SDG No.: JW542
Matrix: (soil/water) SOIL	Lab Sample ID: 949692
Sample wt/vol: 5.0 (g/mL) g	Lab File ID: gh049692a51
Level: (low/med) LOW	Date Received: 07/03/99
% Moisture: not dec. 7	Date Analyzed: 07/13/99
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume:(u

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q.
1. 2.	LABORATORY ARTIFACT Lab Cond. LABORATORY ARTIFACT	20.59 22.55	7	J- R
3. 4				
6.				
8				
1				
4				
6. 7. 8.				
9.				
1. 2. 3.				
4	7.00			
6. 7. 8.				
29.				

CP8-31-99

FORM I VOA-TIC

OLMO3.0

VOLATILE ORGANICS ANALYSIS DATA SHEET

JW565 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949693

Lab File ID: Sample wt/vol: 5.0 (g/mL) g GH049693A51

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: not dec. 20 Date Analyzed: 07/13/99

Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Aliquot Volume: Soil Extract Volume: (uL)

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg 12 U J 74-87-3-----Chloromethane 74-83-9-----Bromomethane . 12 U 75-01-4-----Vinyl Chloride... 12 U 75-00-3-----Chloroethane 12 U

CONCENTRATION UNITS:

75-09-2----Methylene Chloride_ 13 67-64-1-----Acetone 19 34 75-15-0-----Carbon Disulfide 12 75-35-4----1,1-Dichloroethene 12 75-34-3----1,1-Dichloroethane 12 540-59-0----1,2-Dichloroethene (total) 67-66-3-----Chloroform 12 107-06-2----1,2-Dichloroethane 12 78-93-3----2-Butanone 3 71-55-6-----1,1,1-Trichloroethane_ 12 U

56-23-5-----Carbon Tetrachloride_ 75-27-4-----Bromodichloromethane 78-87-5----1,2-Dichloropropane 10061-01-5----cis-1,3-Dichloropropene

79-01-6-----Trichloroethene 124-48-1----Dibromochloromethane 79-00-5-----1,1,2-Trichloroethane

71-43-2-----Benzene 10061-02-6----trans-1,3-Dichloropropene

75-25-2-----Bromoform 108-10-1----4-Methyl-2-Pentanone

591-78-6----2-Hexanone 127-18-4-----Tetrachloroethene

79-34-5----1,1,2,2-Tetrachloroethane 108-88-3-----Toluene

108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene___

100-42-5-----Styrene 1330-20-7-----Xylene (Total) 12 U 12 U

J

12 U

12 U

UP 6-31-99

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	IDMINITABL	1 IDENTIFIED	COMPOUN		JW565
Lab Name:	COMPUCHEM	C. C	ontract:	68D50004	

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949693

Sample wt/vol: 5.0 (g/mL) g Lab File ID: gh049693a51

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: not dec. 20 Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER		RT	EST. CONC.	Q ======
· 2 · · · · · · · · · · · · · · · · · ·	LABORATORY ARTIFACT LABORATORY ARTIFACT	20.58 22.53	31 38	JR
4.				
6. 7. 8.				
9. 10. 11.				
12. 13.				
14. 15.				
17. 18. 19.				
20.		<u> </u>		
22. 23. 24.				
25. 26.				
27. 28. 29.				
30.				

CP8-31-99

FORM I VOA-TIC

OLMO3.0

VOLATILE ORGANICS ANALYSIS DATA SHEET

JW574 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949971

Lab File ID: GH049971A51 Sample wt/vol: 5.0 (g/mL) g

Level: (low/med) LOW Date Received: 07/08/99

% Moisture: not dec. 7 Date Analyzed: 07/15/99

Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Aliquot Volume: Soil Extract Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or	ug/Kg)		Q .	
74-83-9 75-01-4 75-00-3 75-09-2 75-09-2 75-15-0 75-35-4 75-34-3 540-59-0 78-93-3 78-93-3 75-27-4 78-87-5 79-01-6 124-48-1 79-01-6 124-48-1 10061-02-6 75-25-2 108-10-1 108-88-3 108-90-7 100-41-4 100-42-5	Carbon Disulfide1,1-Dichloroethe1,2-Dichloroethe1,2-Dichloroethe1,2-Dichloroethe2-Butanone1,1,1-Trichloroe1,1,1-TrichloroetheBromodichloromet1,2-Dichloropropcis-1,3-DichloroetheneDibromochloromet1,1,2-TrichloroetheneDibromochloromet1,1,2-TrichloroetheneBenzenetrais-1,3-DichloroetheneBromoform4-Methyl-2-Penta2-HexanoneTetrachloroethene1,1,2,2-TetrachloroetheneTolueneChlorobenzeneEthylbenzene	deeneeneethaneethaneethaneethane_eth		// #1 11 11 11 11 11 11 11 11 11 11 11 11 1		
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OLMO3.0

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

TENTATIVELY	IDENTIFIED COMPOUNDS	JW574
COMPUCHEM	Contract: 68D50004	UW37=

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542 Matrix: (soil/water) SOIL Lab Sample ID: 949971

Sample wt/vol: 5.0 (g/mL) g Lab File ID: gh049971a51

Level: (low/med) LOW Date Received: 07/08/99

% Moisture: not dec. 7 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (u

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 2

Lab Name:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	LABORATORY ARTIFACT Lab Cont.	20.59		J. R
	LABORATORY ARTIFACT	22.54	J2	- p
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FORM I VOA-TIC

Soil Aliquot Volume: (uL

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949972

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH049972A51

Level: (low/med) LOW Date Received: 07/08/99

% Moisture: not dec. 4 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kq) ug/Kq Q

CAS NO.	COMPOUND (ug/L or ug	/Kg) ug/Ka	3 C	<u>)</u>
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 78-93-3 71-55-6 75-27-4 78-87-5 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 124-48-1 79-01-6 79-01-6 79-01-6 124-48-1 10061-02-6 75-25-2 108-10-1 108-88-3 108-88-3 100-41-4 100-42-5	Carbon Disulfide1,1-Dichloroethene1,2-Dichloroethene (total)Chloroform1,2-Dichloroethane1,2-Dichloroethane2-Butanone1,1-TrichloroethaneCarbon TetrachlorideBromodichloromethane1,2-Dichloropropanecis-1,3-DichloropropeneTrichloroetheneDibromochloromethane1,1,2-Trichloroethane1,1,2-TrichloroethaneBenzenetrans-1,3-DichloropropeneBromoform4-Methyl-2-Pentanone2-Hexanone1,1,2,2-TetrachloroethaneTolueneTolueneChlorobenzene	/Kg) ug/Kg		
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FORM I VOA

OLMO3.0

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68D50004 JW575

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949972

Sample wt/vol: 5.0 (g/mL) g

Lab File ID:

gh049972a51

Level: (low/med) LOW

Date Received: 07/08/99

% Moisture: not dec. 4

Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT ======	EST CONC.	Q === ;
2. 3.	LABORATORY ARTIFACT Lab Cont.	20.59 22.54	108 73	J R
4. 5.				
6. 7. 8.				
9. 0.				
1. 2. 3.				
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6. 7. 8.		aga tang 100 Ni		
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L. 2.				
3.				
5. 7.				
0.				

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FORM I VOA-TIC

JW578 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542 Matrix: (soil/water) SOIL Lab Sample ID: 950019 Sample wt/vol: 5.0 (g/mL) gLab File ID: GH050019A51 Level: (low/med) LOW Date Received: 07/09/99 % Moisture: not dec. 7 Date Analyzed: 07/15/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: CONCENTRATION UNITS: CAS NO. (ug/L or ug/Kg) ug/Kg Q COMPOUND 74-87-3-----Chloromethane 11 U 74-83-9-----Bromomethane 11 U 75-01-4-----Vinyl Chloride____ 11 U 75-00-3-----Chloroethane 11 U 75-09-2----Methylene Chloride 20 U 67-64-1-----Acetone 100 图记 75-15-0-----Carbon Disulfide 11 0 75-35-4----1,1-Dichloroethene 11 U 75-34-3-----1,1-Dichloroethane 11 U 540-59-0----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane 11 U 78-93-3----2-Butanone 21 71-55-6----1,1,1-Trichloroethane_ 11 U 56-23-5-----Carbon Tetrachloride 11 U 75-27-4----Bromodichloromethane 11 U 78-87-5----1,2-Dichloropropane_ 11 U 10061-01-5----cis-1,3-Dichloropropene_ 11 U 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 U 79-00-5-----1,1,2-Trichloroethane_ 11 U 71-43-2-----Benzene 11 10061-02-6----trans-1,3-Dichloropropene 11 75-25-2-----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone J 1 591-78-6----2-Hexanone . 11 U 127-18-4-----Tetrachloroethene 11. Ū 79-34-5----1,1,2,2-Tetrachloroethane 11 U 108-88-3-----Toluene 4 J 108-90-7-----Chlorobenzene 11 100-41-4-----Ethylbenzene 17 100-42-5----Styrene 11 | 0 1330-20-7-----Xylene (Total) 46

FORM I VOA

		11 22				
VOLATILE	ORGANIC	'S A	NALYSI	SD	ATA	SHEET
	ATIVELY					

Lab Name: COMPUCHEM

Contract: 68D50004

JW578

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950019

Sample wt/vol: 5.0 (g/mL) g

Lab File ID:

gh050019a51

Level: (low/med) LOW

Date Received: 07/09/99

% Moisture: not dec. 7

Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT ;	EST. CONC.	Q
1.	SUBSTITUTED CYCLOHEXANE	20.10	8 	JN R
3. 4.	SUBSTITUTED BENZENE SUBSTITUTED BENZENE Lab Carl	20.82 21.22	8 6	JN ∫ JN ∫
6	LABORATORY ARTIFACT Car Gra-	22.54	23-	J K
8. 9.				
10.				
12.				
14.				***************************************
16. 17.				
18. 19.	-			
20.				
22				
24. 25. 26.				
27. 28.				
29				
JU.			***************************************	

FORM I VOA-TIC

OLMO3.0

JW579 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542 Matrix: (soil/water) SOIL Lab Sample ID: 950020 Sample wt/vol: 5.0 (g/mL) gLab File ID: GR050020A51 Level: (low/med) LOW Date Received: 07/09/99 % Moisture: not dec. 13 Date Analyzed: 07/15/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uI CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) ug/Kg 74-87-3-----Chloromethane 11 U 74-83-9-----Bromomethane 11 | U 75-01-4-----Vinyl Chloride___ 23 75-00-3-----Chloroethane_ 11 0 75-09-2-----Methylene Chloride 11 Z Z U 67-64-1-----Acetone 75-15-0-----Carbon Disulfide_ 11 U 75-35-4-----1,1-Dichloroethene .11 | U 75-34-3-----1,1-Dichloroethane
540-59-0----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane 11 U 78-93-3----2-Butanone 1 J 71-55-6----1,1,1-Trichloroethane 11 U 56-23-5-----Carbon Tetrachloride 11 | U 75-27-4-----Bromodichloromethane 11 | U 78-87-5----1,2-Dichloropropane_ 11 | U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 U 79-00-5----1,1,2-Trichloroethane 11 U 71-43-2----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene 11 U 75-25-2-----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone 11 | U 591-78-6----2-Hexanone 11 | U 127-18-4-----Tetrachloroethene 11 U 79-34-5----1,1,2,2-Tetrachloroethane 11 U 108-88-3-----Toluene 11 U 108-90-7-----Chlorobenzene 11 | U 100-41-4----Ethylbenzene 11 | U 100-42-5-----Styrene 1330-20-7------Xylene (Total) 11 U 11 U

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JW579	
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Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950020

Sample wt/vol: 5.0 (g/mL) g

Lab File ID: qr050020a51

Level: (low/med) LOW

Date Received: 07/09/99

% Moisture: not dec. 13

Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 71-23-8 2. 3. 1678-92-8	1-PROPANOL UNKNOWN HYDROCARBON CYCLOHEXANE, PROPYL-	11.48 19.74 20.08	7 6 9	NJ J N NJ ⊤ R
5. 6. 7. 8. 9.	UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON SUBSTITUTED CYCLOHEXANE SUBSTITUTED BENZENE LABORATORY ARTIFACT	20.53 20.78 20.85 21.20 21.45 22.01	1989981	7V 7 7 7 7 8
11. 12. 13.	HABOKATOKI AKITIACI			
15. 16. 17. 18.				
20. 21. 22. 23. 24.				
25. 26. 27. 28. 29.				
30				

CP -31-49

FORM I VOA-TIC

OLMO3.0

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950021

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH050021A51

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: not dec. 6 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (u)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg

74-87-3Chlorome		,	· .	11	υ.	
74-83-9Bromomet	ane			11	U	- 1
75-01-4Vinyl Ch.	oride			11	U	- [
75-00-3Chloroet	ane		•	11	U	-1
75-09-2Methylene			/	1 X .	J U	- 1
67-64-1Acetone				43	ΒŪ	l
75-15-0Carbon \overline{D}	sulfide			43 43 11	ับ	- 1
75-35-41,1-Dich				11	Ū	· [
75-34-31,1-Dich	oroethane			11	Ū.	1
540-59-01,2-Dich	oroethene (total	E)			Ū.	
67-66-3Chlorofo	m	·			Ū	
107-06-21,2-Dich				_ ,	Ü	
78-93-32-Butano					Ŭ	
71-55-61,1,1-Tr					Ŭ.	- 1
56-23-5Carbon T		 ::		;	Ü.	- 1
75-27-4Bromodic				1	Ü	
78-87-51,2-Dich	oropropane			— - ŀ	U	. 1
10061-01-5cis-1,3-	oighloropropene				U .	
79-01-6Trichlor	sethere			:	Ū	- 1
124-48-1Dibromoc					U.	İ
79-00-51,1,2-Tr	intoromechane				U	- {
71-43-2Benzene	renitoroechane		•		IJ	- 1
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10061-02-6trans-1, 75-25-2Bromofor		3			U	1
					Ū	- 1
108-10-14-Methyl	-2-Pentanone				Ū	1
591-78-62-Hexano					U	
127-18-4Tetrachl					U	
79-34-51,1,2,2-	retrachloroethane	e			Ū	į
108-88-3Toluene_					Ū	
108-90-7Chlorobe					U	
100-41-4Ethylben					U	.
100-42-5Styrene_				11	U	
1330-20-7Xylerie 7	Total)			11	U	1
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FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950021

Sample wt/vol: 5.0 (g/mL) g Lab File ID: gh050021a51

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: not dec.: 6 Date Analyzed: 07/15/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume:

CONCENTRATION UNITS:
Number TICs found: 12 (ug/L or ug/Kg) ug/Kg

	•			-
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	20.12	7	JN
-2.	LABORATORY ARTIFACT Lab Corl.	20.58	22	E-R
3.	UNKNOWN HYDROCARBON	20.71	7	JW.
4.	SUBSTITUTED CYCLOHEXANE	20.89	12	J
6	UNKNOWN CYCLIC HYDROCARBON UNKNOWN ALKANE	21.09 21.46	5 1 9	J
7.	SUBSTITUTED ALKANE	21.74	15	J.
8.	SUBSTITUTED ALKANE	21.95	7	J
9. 10.	SUBSTITUTED BENZENE	22.05	8	J.
10.	SUBSTITUTED CYCLOHEXANE	22.23 22.54	8	JVR
12.	UNKNOWN ALKANE	23.08	10	J/V
13.		ann a		
14		· · · · · · · · · · · · · · · · · · ·		
16.				·
17.				
18.				
19.				
21.				
22				
23.				
24.				
26.				<u> </u>
27.				
28.				
29.				

CP6-31-95

FORM T VOA-TTC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

JP411

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950008

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH050008A66

Level: (low/med) LOW

Date Received: 07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

% Moisture: 18 decanted: (Y/N) N Date Extracted:07/09/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/K			. Q	
95-57-8 541-73-1 106-46-7 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 98-95-3 105-67-9 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 91-20-3 106-47-8 91-20-3 106-47-8 91-57-6 91-57-6 91-57-6 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7	-bis(2-Chloroethy, -2-Chlorophenol -1,3-Dichlorobenz, -1,4-Dichlorobenz, -1,2-Dichlorobenz, -2-Methylphenol -2,2'-oxybis(1-Ch -4-Methylphenol -N-Nitroso-di-n-p-Hexachloroethane -Nitrobenzene -1sophorone -2-Nitrophenol -2,4-Dimethylphen -bis(2-Chloroetho -2,4-Dichlorophen -1,2,4-Trichlorob -Naphthalene -4-Chloroaniline -Hexachlorobutadi -4-Chloro-3-methy -2-Methylnaphthal -Hexachlorocyclop -2,4,6-Trichlorop -2,4,5-Trichlorop -2,6-Dinitrotolue -3-Nitroaniline -2,6-Dinitrotolue -3-Nitroaniline	ene ene ene loropropane) ropylamine ol enzene ene lphenol ene entadiene henol henol ene ene		400 400 400 400 400 400	<u>ממממממממממממממממממממממממממממממממממממ</u>	
·		,	19		i	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950008

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050008A66

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: 18 decanted: (Y/N) N Date Extracted: 07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 51-28-5-----2,4-Dinitrophenol 1000 U 100-02-7-----4-Nitrophenol____ 1000 U 132-64-9-----Dibenzofuran 400 U 121-14-2----2,4-Dinitrotoluene 400 U 84-66-2----Diethylphthalate 400 U 7005-72-3----4-Chlorophenyl-phenylether 400 U 86-73-7-----Fluorene 400 U 100-01-6----4-Nitroaniline 1000 U 534-52-1----4,6-Dinitro-2-methylphenol 1000 U 86-30-6----N-nitrosodiphenylamine (1) 400 U 101-55-3----4-Bromophenyl-phenylether____ 400 U 400 U 1000 U 85 J 400 U 118-74-1-----Hexachlorobenzene 87-86-5-----Pentachlorophenol 85-01-8------Phenanthrene 120-12-7-----Anthracene___ 86-74-8-----Carbazole 400 U 84-74-2-----Di-n-butylphthalate 50 J 206-44-0----Fluoranthene 75 J 129-00-0-----Pyrene 90 J 85-68-7-----Butylbenzylphthalate 92 J 91-94-1----3,3'-Dichlorobenzidine 400 U 56-55-3-----Benzo(a) anthracene 83 J 218-01-9-----Chrysene 130 J 117-81-7-----bis(2-Ethylhexyl)phthalate 820 117-84-0-----Di-n-octylphthalate 82 J 205-99-2----Benzo (b) fluoranthene 100 J 207-08-9-----Benzo(k)fluoranthene 87 J 50-32-8-----Benzo(a)pyrene 400 U 193-39-5----Indeno(1,2,3-cd)pyrene 84 J 53-70-3-----Dibenzo(a,h)anthracene 81 J 191-24-2----Benzo(g,h,i)perylene____ (1) - Cannot be separated from Diphenylamine UP9-1-99

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP411

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950008

Sample wt/vol:

Lab File ID: GH050008A66

30.0 (g/mL) G

Level: (low/med)

LOW.

Date Received: 07/09/99

% Moisture: 18 decanted: (Y/N) N

500 (uL)

Date Extracted:07/09/99

Concentrated Extract Volume:

Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.8

Number TICs found: 29

CONCENTRATION UNITS: , (ug/L or ug/Kg) UG/KG

1. TRIMETHYLBENZENE 2. SUBSTITUTED BENZENE 3. UNKNOWN 4. UNKNOWN 5. UNKNOWN 6. UNKNOWN 7. UNKNOWN 8. UNKNOWN 9.	6.03 6.70 10.08 14.82 15.15 15.81 16.27 16.52	34 37 44 28 24 40 220 23	0 J 0 J 0 J 0 J 0 J
10. UNKNOWN 11. UNKNOWN 12. UNKNOWN 13. UNKNOWN 14. UNKNOWN 15. UNKNOWN 16. UNKNOWN 17. UNKNOWN 19. UNKNOWN 19. UNKNOWN 20. UNKNOWN 21. UNKNOWN 22. UNKNOWN 22. UNKNOWN 23. UNKNOWN 24. UNKNOWN 25. UNKNOWN 26. UNKNOWN 27. UNKNOWN 28. UNKNOWN 29. UNKNOWN	17.22 17.29 17.73 17.87 18.83 19.51 20.44 21.06 21.85 22.30 23.09 24.23 25.86 26.54 26.75 26.89 27.49 27.86 28.23	110 22 16 17 31 26 45 29 31 32 45 29 60 61 32 60 61 28	000 000 000 000 000 000 000 000 000 00

Of G-1-99 OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950017

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050017A66

Level: (low/med) LOW. Date Received: 07/09/99

% Moisture: 5 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

350 U 108-95-2----Phenol 350 | U 111-44-4-----bis(2-Chloroethyl)ether____ 350 U 95-57-8----2-Chlorophenol 350 U 541-73-1----1,3-Dichlorobenzene_ 350 U 106-46-7----1,4-Dichlorobenzene 350 U 95-50-1-----1,2-Dichlorobenzene__ 350 U 95-48-7----2-Methylphenol 108-60-1----2,2'-oxybis(1-Chloropropane) 350 U 106-44-5----4-Methylphenol 350 U 621-64-7----N-Nitroso-di-n-propylamine 350 l U 350 U 67-72-1-----Hexachloroethane 350 U 98-95-3----Nitrobenzene_ 350 U 78-59-1-----Isophorone 350 U 350 U 350 U 88-75-5----2-Nitrophenol 105-67-9-----2,4-Dimethylphenol___ 111-91-1-----bis(2-Chloroethoxy)methane 120-83-2-----2,4-Dichlorophenol_ 120-82-1----1,2,4-Trichlorobenzene_ 350 U 350 U 350 U 91-20-3-----Naphthalene 350 U 106-47-8-----4-Chloroaniline 350 U 87-68-3-----Hexachlorobutadiene 59-50-7----4-Chloro-3-methylphenol__ 350 U 350 U 91-57-6----2-Methylnaphthalene 77-47-4-----Hexachlorocyclopentadiene 350 U 350 U 88-06-2----2,4,6-Trichlorophenol___ 87.0 U 95-95-4----2,4,5-Trichlorophenol_ 350 U 91-58-7----2-Chloronaphthalene 88-74-4----2-Nitroaniline 870 U 350 U 131-11-3-----Dimethylphthalate 350 U 208-96-8-----Acenaphthylene 350 U 606-20-2----2,6-Dinitrotoluene 870 U 99-09-2----3-Nitroaniline 83-32-9-----Acenaphthene 350 U

FORM I SV-1

CH 99 OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950017

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050017A66

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: 5 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND 870 U 51-28-5----2,4-Dinitrophenol__ 100-02-7----4-Nitrophenol 870 U 350 U 350 U 132-64-9-----Dibenzofuran 121-14-2----2,4-Dinitrotoluene 84-66-2-----Diethylphthalate_ 350 U 7005-72-3----4-Chlorophenyl-phenylether ,350 U 86-73-7-----Fluorene 350 U 100-01-6-----4-Nitroaniline 870 U 534-52-1----4,6-Dinitro-2-methylphenol 870 U 86-30-6----N-nitrosodiphenylamine_(1)___ 350 U 101-55-3----4-Bromophenyl-phenylether 350 U 118-74-1-----Hexachlorobenzene 350 U 870 0丁 87-86-5----Pentachlorophenol 85-01-8-----Phenanthrene 350 U 120-12-7-----Anthracene 350 U 86-74-8-----Carbazole 350 U 84-74-2-----Di-n-butylphthalate____ 350 U 206-44-0----Fluoranthene 350 J U 129-00-0-----Pyrene 350 U 85-68-7-----Butylbenzylphthalate 91-94-1----3,3'-Dichlorobenzidine 350 U 350 U 56-55-3-----Benzo (a) anthracene 350 U 218-01-9-----Chrysene 350 U 117-81-7-----bis(2-Ethylhexyl)phthalate 50 J 117-84-0-----Di-n-octylphthalate 350 U 205-99-2----Benzo (b) fluoranthene 350 U 207-08-9-----Benzo(k) fluoranthene 350 U 50-32-8-----Benzo (a) pyrene 350 U 193-39-5-----Indeno(1,2,3-cd)pyrene 350 U 53-70-3-----Dibenzo(a,h)anthracene 350 U 191-24-2----Benzo(g,h,i)perylene____ 350 U

FORM I SV-2

(1) - Cannot be separated from Diphenylamine

09-1-99 9-1-91-MD3 0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP412

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950017

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH050017A66

Level: (low/med) LOW

Date Received: 07/09/99

% Moisture: 5 decanted: (Y/N) N Date Extracted: 07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	UNKNOWN (BC) blank Contamination UNKNOWN	 18.18 20.48 21.34 21.44 21.58 21.63 21.70 21.77	110 120 120 100 130 130 220	JD R JV J J J J J J
9. 10. 11. 12. 13. 14. 15. 16.	UNKNOWN UNKNOWN	21.86 22.32	220	
18. 19. 20. 21. 22. 23. 24. 25.				
26. 27. 28. 29.				

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950018

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050018A66

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: 15 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

390 U 108-95-2----Phenol 390 U 111-44-4----bis(2-Chloroethyl)ether 95-57-8----2-Chlorophenol 390 U 541-73-1----1,3-Dichlorobenzene 390 l U 106-46-7----1,4-Dichlorobenzene_ 390 U 390 l U 95-50-1-----1,2-Dichlorobenzene 95-48-7----2-Methylphenol 390 U 108-60-1----2,2'-oxybis(1-Chloropropane) 390 U 390 U 106-44-5----4-Methylphenol 390 U 621-64-7----N-Nitroso-di-n-propylamine 390 U 67-72-1-----Hexachloroethane 98-95-3----Nitrobenzene_ 390 U 78-59-1----Isophorone 390 U 88-75-5----2-Nitrophenol 390 U 390 U 105-67-9----2,4-Dimethylphenol 390 U 111-91-1----bis(2-Chloroethoxy)methane 390 U 120-83-2----2,4-Dichlorophenol 390 U 120-82-1----1,2,4-Trichlorobenzene_ 91-20-3-----Naphthalene 390 U 106-47-8----4-Chloroaniline 390 l U 87-68-3-----Hexachlorobutadiene 390 U 59-50-7----4-Chloro-3-methylphenol___ 390 U 91-57-6----2-Methylnaphthalene 390 U 77-47-4-----Hexachlorocyclopentadiene 390 U 88-06-2----2,4,6-Trichlorophenol 390 U 95-95-4----2,4,5-Trichlorophenol U 980 91-58-7----2-Chloronaphthalene___ 390 U 88-74-4----2-Nitroaniline 980 U 131-11-3-----Dimethylphthalate 390 U 208-96-8-----Acenaphthylene 390 U 606-20-2----2,6-Dinitrotoluene 390 U 99-09-2----3-Nitroaniline 980 U 83-32-9-----Acenaphthene__ 390 U

FORM I SV-1

U/ 99 OLMO3.0

JP413 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950018

30.0 (g/mL) GSample wt/vol: Lab File ID: GH050018A66

Level: (low/med) Date Received: 07/09/99

Date Extracted:07/09/99 % Moisture: 15 decanted: (Y/N) N

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

86-74-8-----Carbazole

129-00-0-----Pyrene

218-01-9-----Chrysene

206-44-0-----Fluoranthene

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG 51-28-5-----2,4-Dinitrophenol______ 100-02-7----4-Nitrophenol_____ 980 U 980 U 132-64-9-----Dibenzofuran 390 U 121-14-2----2,4-Dinitrotoluene____ 390 U 84-66-2----Diethylphthalate
7005-72-3----4-Chlorophenyl-phenylether 390 U 390 U 86-73-7-----Fluorene 390 U 100-01-6----4-Nitroaniline 980 U 534-52-1----4,6-Dinitro-2-methylphenol 980 U 86-30-6----N-nitrosodiphenylamine (1) 390 U 101-55-3----4-Bromophenyl-phenylether____ 390 U 118-74-1-----Hexachlorobenzene 390 U 87-86-5----Pentachlorophenol 980 U 85-01-8-----Phenanthrene 390 U 120-12-7-----Anthracene 390 U

117-81-7-----bis(2-Ethylhexyl)phthalate 117-84-0-----Di-n-octylphthalate 205-99-2----Benzo (b) fluoranthene

207-08-9-----Benzo(k) fluoranthene 50-32-8-----Benzo(a)pyrene

84-74-2----Di-n-butylphthalate

85-68-7-----Butylbenzylphthalate 91-94-1----3,3'-Dichlorobenzidine 56-55-3-----Benzo (a) anthracene

193-39-5----Indeno(1,2,3-cd)pyrene 53-70-3-----Dibenzo(a,h)anthracene

191-24-2----Benzo(g,h,i)perylene___ (1) - Cannot be separated from Diphenylamine

390 U

390 U

390 U 390 U 390 U 390 U

390 U

390 U

390 U

390 U

390 U

390 U

390 U

390 U

390 U

44 J

JP413 Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Lab Sample ID: 950018 Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) GLevel: (low/med) LOW Date Received: 07/09/99

% Moisture: 15 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Lab File ID: GH050018A66

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4.	UNKNOWN AMIDE UNKNOWN	6.17 18.11 21.37	79 140 83	
5. 6. 7. 8.				
9. 10. 11. 12.				·
14. 15. 16.				
18. 19. 20. 21.				
22. 23. 24. 25.				
26. 27. 28. 29.				Name and the same
30				

OP 9-1-99

FORM I SV-TIC

JP415

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950228

Sample wt/vol: 30.1 (g/mL) G Lab File ID: GH050228B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 24 decanted: (Y/N) N Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

430 U 108-95-2----Phenol 111-44-4-----bis(2-Chloroethyl)ether 430 U 430 U 95-57-8-----2-Chlorophenol_ 430 U 541-73-1----1,3-Dichlorobenzene 430 U 106-46-7----1,4-Dichlorobenzene 430 U 95-50-1----1,2-Dichlorobenzene 430 U 95-48-7----2-Methylphenol 430 U 108-60-1----2,2'-oxybis(1-Chloropropane) 430 U 106-44-5----4-Methylphenol 621-64-7----N-Nitroso-di-n-propylamine__ 430 U 430 U 67-72-1-----Hexachloroethane 430 U 98-95-3-----Nitrobenzene 430 U 78-59-1-----Isophorone 430 U 88-75-5----2-Nitrophenol 105-67-9-----2,4-Dimethylphenol 430 U 430 U 111-91-1-----bis(2-Chloroethoxy)methane 430 U 430 U 120-82-1-----1,2,4-Trichlorobenzene 430 U 91-20-3-----Naphthalene 430 U 106-47-8----4-Chloroaniline 430 U 87-68-3-----Hexachlorobutadiene 430 U 59-50-7----4-Chloro-3-methylphenol 430 U 91-57-6----2-Methylnaphthalene 430 U 77-47-4----Hexachlorocyclopentadiene 430 U 88-06-2----2,4,6-Trichlorophenol_ 1100 U 95-95-4----2,4,5-Trichlorophenol_ 91-58-7----2-Chloronaphthalene____ 88-74-4----2-Nitroaniline____ 430 U 1100 U 131-11-3-----Dimethylphthalate 430 U 430 U 208-96-8-----Acenaphthylene 430 U 606-20-2----2,6-Dinitrotoluene 1100 U 99-09-2----3-Nitroaniline 430 U 83-32-9-----Acenaphthene

FORM I SV-1

CP 99 OLMO3.0

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950228

Sample wt/vol: 30.1 (g/mL) G Lab File ID: GH050228B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 24 decanted: (Y/N) N Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5	2,4-Dinitrophenol		1100 U	
100-02-7	4-Nitrophenol		1100 U	
	Dibenzofuran		430 U	
	2,4-Dinitrotoluene		430 U	
	Diethylphthalate		430 U	
7005 72 3	4-Chlorophenyl-phenylether		430 U	
86-73-7	4-Chrorophenyr-phenyrecher			
00 01 6	4-Nitroaniline			
		,	1100 U	
0.54-02-1	4,6-Dinitro-2-methylphenol		1100 U	
36-30-6	N-nitrosodiphenylamine_(1)	· ·	430 U	
101-55-3	4-Bromophenyl-phenylether	1	430 U	
L18-74-1	Hexachlorobenzene	,	430 U	
37-86-5	Pentachlorophenol		1100 U	_
35-01-8	Phenanthrene		430 U	
L20-12-7	Anthracene		430 U	
36-74-8	Carbazole		430 U	
34-74-2	Di-n-butylphthalate		430 U	•
206-44-0	Fluoranthene	·	75 J	•
29-00-0	Pyrene		60 J	-
35-68-7	Butylbenzylphthalate		430 U	Ī
1-94-1	3,3'-Dichlorobenzidine		430 U	Г
6-55-3	Benzo(a) anthracene		430 U	
18-01-9	Chrysene		44 J	- .
	bis(2-Ethylhexyl)phthalate		77]	
17-84-0	Di-n-octylphthalate		430 U	Γ. ΄
05-99-2	Benzo(b) fluoranthene		48 J	
207-08-9	Benzo(k) fluoranthene		430 0	
50-32-8	Benzo (a) pyrene		430 U	
93-39-5	Indeno(1,2,3-cd)pyrene		430 0	
53-70-3	Dibenzo(a,h)anthracene		430 U	
91-94-9	Benzo(g,h,i)perylene			
LJ	Benzo (g, II, I) per yrene		430 0	J
- Cannot be s	eparated from Diphenylamine	1		
			M	0.1-0
			0. 6	i - 1

FORM I SV-2

OLM03.0

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP415

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950228

Sample wt/vol: 30.1 (g/mL) G

Lab File ID:

GH050228B70

Level: (low/med) LOW

Date Received: 07/10/99

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

Number TICs found: 31

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

		 		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	UNKNOWN (BC) blank Cont.	6.62		JB- R
2.	UNKNOWN	10.82		
1 3.	UNKNOWN			īV
4	UNKNOWN	10.89 10.98		J
5	UNKNOWN			ı̈́
5. 6.	SUBSTITUTED PHENANTHRENE	12.39	410	ā
7.	SUBSTITUTED PHENANTHRENE	14.54	620	<u> </u>
8.	UNKNOWN	15.10		<u> </u>
9	DDE	15.93		J
10.	UNKNOWN	16.08		Ω I
11.	UNKNOWN	16.21		J
1 12.	UNKNOWN	16.48		J
13.	UNKNOWN	16.91		J
14.	UNKNOWN	19.12		J
15.	UNKNOWN	19.93		<u> </u>
16.	UNKNOWN CARBOXYLIC ACID	21.52		J .
17.	UNKNOWN	22.16		J
18.	UNKNOWN	22.60		J
19. 83-47-6		22.80		J ↓
20.	GAMMASITOSTEROLUNKNOWN	23.24		NJ,
21.	UNKNOWN	23.55		JN │
22.	UNKNOWN	23.61		J
23.	UNKNOWN	23.70		J .
24.	UNKNOWN	23.75	,	J ·
25. 1058-61-3		24.09		J↓
26.	STIGMAST-4-EN-3-ONE UNKNOWN	24.32		NJ,
27.		24.69		JŅ │
28.	UNKNOWN	24.80		J
29.	UNKNOWN	25.35		J
30.	UNKNOWN	25.84		J T
	UNKNOWN.	25.93	380	J ∤

U a-1-99 OLM03.0

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP415

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950228

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: GH050228B70

Level: (low/med) LOW

Date Received: 07/10/99

% Moisture: 24

decanted: (Y/N) N

Date Extracted:07/12/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.3

Number TICs found: 31

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

AS NUMBER	COMPOUND NAME	RT .	EST. CONC.	Q
: = = = = = = = = = = = : . •	UNKNOWN	26.32	310	_=== J√
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OLM03.0

FORM I SV-TIC

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950229

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050229B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 7 decanted: (Y/N) N Date Extracted: 07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	CONCENTRATION COMPOUND (ug/L or ug/L)			. (Q	
108-95-2- 111-44-4- 95-7-8-1- 106-46-7- 95-50-1 95-48-7 106-44-5- 621-64-7- 98-95-3 78-59-1 88-75-9-1 120-83-1 120-83-1 120-83-1 120-83-1 91-57-6 77-47-4 88-06-2 91-58-7 91-58-7 91-58-7 131-11-3-	COMPOUND (ug/L or ug/Phenolbis(2-Chloroethyl)ether2-Chlorophenol1,3-Dichlorobenzene1,4-Dichlorobenzene1,2-Dichlorobenzene2,Methylphenol2,2'-oxybis(1-Chloropropane)4-MethylphenolNitroso-di-n-propylamineHexachloroethaneIsophorone2-Nitrophenol2,4-Dimethylphenol2,4-Dimethylphenol1,2,4-Trichlorophenol1,2,4-TrichlorobenzeneNaphthalene4-Chloro-3-methylphenol	UG/KG	00000000000000000000000000000000000000	ממממממממממממממממממממ	Q	
606-20-2- 99-09-2	Acenaphthylene2,6-Dinitrotoluene3-NitroanilineAcenaphthene		350 350 890 350	ממממ		

FORM I SV-1

P-990LM03.0

Lab Name: COMPUCHEM Contract: 68D50004 _____

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950229

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050229B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 7 decanted: (Y/N) N Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	COMPOUND	CONCENTRA (ug/L or			Q
100-02-7 132-64-9 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 118-74-1 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 206-55-3 218-01-9 117-81-7 117-84-0 205-99-2 207-08-9 207-08-9 193-39-5 191-24-2	4-Nitroaniline4,6-Dinitro-2-iN-nitrosodiphei4-BromophenylHexachlorobenzePentachloropheiPhenanthreneAnthraceneCarbazoleDi-n-butylphthFluoranthenePyreneButylbenzylpht3,3'-DichlorobBenzo(a) anthraChrysenebis(2-EthylhexDi-n-octylphthBenzo(b) fluoraBenzo(k) fluoraBenzo(a) pyreneIndeno(1,2,3-cDibenzo(a,h) andBenzo(g,h,i) pe	nene te -phenylethe methylpheno nylamine (1 phenylether ene nol alate halate enzidine cene yl) phthalat alate nthene nthene thracene trylene	I	89000000000000000000000000000000000000	ם מט
(1) - Cannot be	separated from Di	.buenAramrue	5	. ^	il) al

FORM I SV-2

OLM03.0

JP416

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Sample wt/vol:

Lab File ID: GH050229B70

Level:

(low/med)

30.0 (g/mL) G

Date Received: 07/10/99

Lab Sample ID: 950229

LOW

Date Extracted:07/12/99

% Moisture: 7 decanted: (Y/N) N

Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

Concentrated Extract Volume: 500 (uL)

pH: 6.7

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN	17.39 17.53 17.73 17.97 18.17 18.35 18.44 18.68 18.91 18.98 19.25 19.54 19.54 19.59 19.64 19.86 19.96 20.79 20.89 21.46 22.09 22.17 22.88	1100 1000 980 1600 670 870 1200 760 840 730	ם ממממממממממממממממממממ

CP 9-1-99 OLM03.0

JP417
Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950230

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050230B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 34 decanted: (Y/N) N Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG C

CAS NO.	COMPOUND (ug/L of u	g/kg) UG/kG	. <u>Q</u>
108-95-2 111-44-4 95-57-8 541-73-1 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 78-59-1 111-91-1 120-83-2 111-91-1 120-83-2 120-82-1 91-20-3 91-57-6 91-57-6 77-47-4 88-06-2	-Phenol -bis(2-Chloroethyl)ether -2-Chlorophenol -1,3-Dichlorobenzene -1,4-Dichlorobenzene -1,2-Dichlorobenzene -2-Methylphenol -2,2'-oxybis(1-Chloropropane -4-Methylphenol -N-Nitroso-di-n-propylamine -Hexachloroethane -Nitrobenzene -Isophorone -2-Nitrophenol -2,4-Dimethylphenol -bis(2-Chloroethoxy)methane -2,4-Dichlorophenol -1,2,4-Trichlorobenzene -Naphthalene -4-Chloroaniline -Hexachlorobutadiene -4-Chloro-3-methylphenol -2-Methylnaphthalene -4-Hexachlorocyclopentadiene -4-Chlorocyclopentadiene -4-Chlorocyclopentadiene	500 500 500 500 500 500 500 500 500 500	ממממממממממממממממממממ
111-91-1 120-83-2 120-82-1 91-20-3 106-47-8 87-68-3 59-50-7	Dis(2-Chioroethoxy)methane2,4-Dichlorophenol	500 500 500 500 500 500 500	ט ט ט ט ט ט
88-06-2 95-95-4 91-58-7 88-74-4 131-11-3 208-96-8 606-20-2 99-09-2	2,4,6-Trichlorophenol2,4,5-Trichlorophenol2,4,5-Trichlorophenol2-Chloronaphthalene2-NitroanilineDimethylphthalateAcenaphthylene2,6-Dinitrotoluene3-Nitroaniline	500 1200 500 1200 500 500 500 500	מממממממ
83-32-9	Acenaphthene	500	ט

FORM I SV-1

1-970LM03.0

JP417
Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950230

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050230B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 34 decanted: (Y/N) N Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

injection volume: 2.0 (un)

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS:

CA	S NO.	COMPOUND	(ug/L or ug	/Kg) UG/KG	3	Q	
10 13 12 84 70 86 10 53 86 10	0-02-7 2-64-9 1-14-2 05-72-3 -73-7 0-01-6 4-52-1 1-55-3 8-74-1	2,4-Dinitrophend 4-Nitrophend Dibenzofurand 2,4-Dinitrod 4-Chlorophend Fluorene 4-Nitroanil 4,6-Dinitrod N-nitrosoding 4-Bromophend Hexachlorod	ol		500		
85	-01-8	Phenanthren	e		500	Ū	
86	-74-8 -74-2	Anthracene Carbazole Di-n-butylp	hthalate		500 500 500	U U	
12	9-00-0	Fluoranthen Pyrene Butvlbenzyl				บ บ บ	
56	-55-3	Butylbenzyl 3,3'-Dichlo Benzo(a)ant Chrysene	robenzidine hracene		500 500 500	U	
11	.7-81-7 .7-84-0	bis(2-Ethyl Di-n-octylp	hexyl)phthalate hthalate	•		J U	
20 50)7-08-9)-32-8	Benzo (b) flu Benzo (k) flu Benzo (a) pyr	oranthene	-	500		
19 53)3-39-5 3-70-3	Indeno(1,2, Dibenzo(a,h Benzo(g,h,i	3-cd) pyrene .) anthracene	-	500	บ บ	
(1) -	Cannot be	e separated from	Diphenylamine	. 1	1 	,	1 G

JP417

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950230

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH050230B70

Level: (low/med) LOW

Date Received: 07/10/99

% Moisture: 34 decanted: (Y/N) N

Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
CAS NUMBER	COMPOUND NAME UNKNOWN (BC) i	RT		Q JB R
18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.				

CP 9-1-99 OLM03.0

JW542

Lab Name: COMPUCHEM Contract: 68D50004

GPC Cleanup: (Y/N) Y pH: 7.0

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949679

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049679B66

Level: (low/med) LOW. Date Received: 07/03/99

% Moisture: 7 decanted: (Y/N) N Date Extracted:07/08/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

210 (112)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/K	.	. •	ر
108-95-2 111-44-4 95-57-8 541-73-1 106-46-7 95-50-1 95-48-7 106-44-5 621-64-7 98-95-3 98-95-3 105-67-9 111-91-1 120-83-2 120-82-1 91-20-3 106-47-8 87-68-3	bis(2-Chloro 2-Chloropher 1,3-Dichloro 1,2-Dichloro 1,2-Dichloro 2,2'-oxybis(4-Methylpher Nitroso-di Hexachloroet Isophorone Isophorone 2,4-Dimethyl 2,4-Dimethyl 2,4-Dichloro 2,4-Trichloro 1,2,4-Trichloro- Naphthalene Naphthalene 	nol	ie)	UG/KC	350 350 350 350 350 350 350 350 350 350	מפטסטסטסטטטטטטט	2
67-72-1	N-NICIOSO-GI Hexachloroet Nitrobenzene	chane	; }	:	350 350 350	บ บ บ	
105-67-9 111-91-1	2,4-Dimethyl	lphenol cethoxy)methane			350 350 350	U U U	
120-83-2 120-82-1 91-20-3	2,4-Dichlord 1,2,4-Trichl Naphthalene	ophenol_ lorobenzene			350 350 350	ָ ט ט	
59-50-7 91-57-6	Hexachlorobu 4-Chloro-3-u 2-Methylnapl Hexachloroc	methylphenol hthalene			350 350 350 350	U	
88-06-2 95-95-4 91-58-7	2,4,6-Trich 2,4,5-Trich 2-Chloronap 2-Nitroanil	lorophenol lorophenol hthalene			350 890 350 890	U U	
131-11-3 208-96-8 606-20-2	Dimethylpht Acenaphthyl	halate ene toluene			350 350 350 890	ם ם ם	
83-32-9	3-Nitroanil Acenaphthen	e			350		

FORM I SV-1

C1-99 OLM03.0

JW542
Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949679

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049679B66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: 7 decanted: (Y/N) N Date Extracted:07/08/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

			·	
51-28-5	2,4-Dinitrophenol_		890 U	_
100-02-7	4-Nitrophenol		890 U	5
132-64-9	Dibenzofuran		350 U	
121-14-2	2,4-Dinitrotoluene		350 U	
84-66-2-	Diethylphthalate		350 U	
7005-72-3	4-Chlorophenyl-phenylether_		350 U	
86-73-7	Election of the state of the st		350 U	
			890 U	
			890 U	
534-52-1	4,6-Dinitro-2-methylphenol			
86-30-6	N-nitrosodiphenylamine_(1)		350 U	
101-55-3	4-Bromophenyl-phenylether		350 U	
	Hexachlorobenzene	·	350 U	
87-86-5	Pentachlorophenol		890 ប	•
85-01-8	Phenanthrene		350 U	
120-12-7	Anthracene		350 U	
86-74-8	Carbazole		350 U	-
84-74-2	Di-n-butylphthalate		170 J	
206-44-0	Fluoranthene		350 U	
			350 U	
85-68-7	Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine		350 U	
91-94-1	3.3'-Dichlorobenzidire		350 U	
56-55-3	Benzo(a) anthracene		350 U	
218-01-9	Benzo(a) anthracene		350 U	
117-81-7	bis(2-Ethylhexyl)phthalate		54 J	
117-84-0	Di-n-octylphthalate		350 U	
205-99-2	Benzo(b) fluoranthene		350 U	
			350 U	
20/-08-9	Benzo(k) fluoranthene			
50-32-8	Benzo (a) pyrene	·	350 0	
173-37-5	Indeno(1,2,3-cd)pyrene	·	350 U	
53-70-3	Dibenzo(a,h)anthracene		350 U	
191-24-2	Benzo(g,h,i)perylene		350 U	
		·	- <u>.</u>	
.) - Cannot be	separated from Diphenylamine			

Cannot be separated from Diphenylamine

(A) 9-1-9 TIMO3 (

JW542

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949679

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH049679B66

Level: (low/med) LOW

Date Received: 07/03/99

% Moisture: 7

decanted: (Y/N) N Date Extracted:07/08/99

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 23

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CP 9-1-99 OLM03.0

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949690

Sample wt/vol: 30:0 (g/mL) G Lab File ID: GH049690B66

Level: (low/med) LOW. Date Received: 07/03/99

% Moisture: 7 decanted: (Y/N) N Date Extracted: 07/08/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG C

<u> </u>	3.		
108-95-2	Phonol		350 U
111-44-4	bis(2-Chloroethyl)ether	1	350 U
95-57-0	2-Chlorophenol		350 U
53-37-0 541-72 1	1,3-Dichlorobenzene		350 U
106-46-7	1,4-Dichlorobenzene		350 U
, 100-40-/	1,4-Dichlorobenzene		350 U
			350 U
100 60 1	2-Methylphenol2;2'-oxybis(1-Chloropropane)4-Methylphenol		350 U
106 44 5	Z;Z'-OXYDIS(I-CHIOTOPIOPAHE)		350 U
CO1 C4 7	4-Methyrphenor		350 U
021-04-/	N-Nitroso-di-n-propylamine		
0/-/2-1	Hexachioroethane		
70 50 1	Nitrobenzene		350 U
78-59-1	Isophorone		350 U
38-/5-5	2-Nitrophenol		350 U
105-67-9	2,4-Dimethylphenol	. [350 U
111-91-1	bis(2-Chloroethoxy)methane		350 U
120-83-2	2,4-Dichlorophenol1,2,4-TrichlorobenzeneNaphthalene4-Chloroaniline		350 U
120-82-1	1,2,4-Trichlorobenzene	•	350 U
91-20-3	Naphthalene		54 J
106-47-8	4-Chloroaniline	.	350 U
8/-68-3	Hexachiorobutadiene		350 U
59-50-7	4-Chloro-3-methylphenol		350 U
91-57-6	2-Methylnaphthalene		66 J
77-47-4	Hexachlorocyclopentadiene		350 U
88-06-2	2,4,6-Trichlorophenol		350 U
95-95-4	2,4,5-Trichlorophenol		890 U
91-58-7	2-Chloronaphthalene	,	350 U
88-74-4	2-Nitroaniline	·	890 U
131-11-3	Dimethylphthalate	- 	350 U
208-96-8	Acenaphthylene	1	350 U
606-20-2	2,6-Dinitrotoluene	-	350 U
99-09-2	3-Nitroaniline	-	890 U
83-32-9	Acenaphthene		350 U
	*	-	
		- !	

JW545

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949690

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049690B66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: 7 decanted: (Y/N) N Date Extracted: 07/08/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/I		Q .
100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 129-00-0 129-00-0 117-81-7 117-84-0 117-84-0 205-99-2 207-08-9 193-39-5 191-24-2	4-Nitroaniline4,6-Dinitro-2-me4,6-Dinitro-2-meN-nitrosodipheny4-Bromophenyl-phHexachlorobenzenPentachlorophenoPhenanthreneCarbazoleCarbazoleFluoranthenePyreneButylbenzylphthal3,3'-DichloroberBenzo(a)anthrace	henylether	350 UU 350 UU 35	ייייייייייייייייייייייייייייייייייייי
		,	U	4-1-7

FORM I SV-2

OLMO3.0

Lab Name: COMPUCHEM

Contract: 68D50004

JW545

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949690

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH049690B66

Level:

(low/med) LOW

Date Received: 07/03/99

% Moisture: 7 decanted: (Y/N) N

Date Extracted:07/08/99

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.8

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Number TICs found: 30

	•			1
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN	6.14 20.17 20.36 20.59 20.80 20.94 21.20 21.23 21.38 21.45 21.71 21.74 21.83 21.88 21.99 22.02 22.30 22.48 22.55 22.64 22.78 22.92 23.13 23.18 23.30 23.50 23.69 23.78	330 540 320 860 760 1100 770 490 7600 830 650 720 900 730 730 730 730 730 730 730 7	

CP 9-1-99 OLM03.0

JW546 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949691

Sample wt/vol: 30.0 (g/mL) GLab File ID: GH049691B66

Date Received: 07/03/99 Level: (low/med) LOW:

% Moisture: 20 decanted: (Y/N) N Date Extracted:07/08/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/13/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

	· ·	· · · · · · · · · · · · · · · · · · ·
108-95-2Phenol	410	υ
111-44-4bis(2-Chloroethyl)ether	410	
95-57-82-Chlorophenol	410	Ū
541-73-11.3-Dichlorobenzene	410	υ
106-46-71,4-Dichlorobenzene	410	υ
95-50-11.2-Dichlorobenzene	410	–
95-50-11,2-Dichlorobenzene 95-48-72-Methylphenol	410	
108-60-12,2'-oxybis(1-Chloropropane)	410	
106-44-54-Methylphenol	410	
621-64-7Nitroso-di-n-propylamine	410	
67-72-1Hexachloroethane	410	
98-95-3Nitrobenzene	410	
78-59-1Isophorone	410	
88-75-52-Nitrophenol	410	
105-67-92,4-Dimethylphenol	410	
111-91-1bis (2-Chloroethoxy) methane	410	. ~
120-83-22,4-Dichlorophenol	410	
120-82-11,2,4-Trichlorobenzene	l	. 1 -
91-20-3	410	
91-20-3Naphthalene 106-47-84-Chloroaniline	410	
97.69 3 Tana 11 Janah 12	410	
87-68-3Hexachlorobutadiene	410	
59-50-74-Chloro-3-methylphenol	410	
91-57-62-Methylnaphthalene	58	· 1
77-47-4Hexachlorocyclopentadiene	410	
88-06-22,4,6-Trichlorophenol	410	
95-95-42,4,5-Trichlorophenol	1000	ט (ט
91-58-72-Chloronaphthalene	410	ָ ט (
88-74-42-Nitroaniline	1000	טוס
131-11-3Dimethylphthalate	410	U
208-96-8Acenaphthylene	410	טוס
000-40-4	410	ប
99-09-23-Nitroaniline	1000	טוכ
83-32-9Acenaphthene	410	
		1 .

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949691

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049691B66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: 20 decanted: (Y/N) N Date Extracted:07/08/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

51-28-52,4-Dinitrophenol_	.]	000	II
100 02 7		000	
100-02-74-Nitrophenol		410	
132-64-9Dibenzofuran	_ •		
121-14-22,4-Dinitrotoluene	1	410	-
84-66-2Diethylphthalate	1	410	-
7005-72-34-Chlorophenyl-phenylether_		410	
86-73-7Fluorene		410	
100-01-64-Nitroaniline	⁻ 1	000	U
534-52-14,6-Dinitro-2-methylphenol	- 1	000	Ŭ
86-30-6N-nitrosodiphenylamine (1)	- • • .	410	U
101-55-34-Bromophenyl-phenylether	-	410	U
118-74-1Hexachlorobenzene	-	410	Ū
87-86-5Pentachlorophenol		000	
85-01-8Phenanthrene	-	66	
120-12-7Anthracene	-	410	
2C 74 0	l	[- ,
86-74-8Carbazole	l .	1	
84-74-2Di-n-butylphthalate	_ 1	410	_
206-44-0Fluoranthene		410	
129-00-0Pyrene		410	
85-68-7Butylbenzylphthalate 91-94-13,3'-Dichlorobenzidine		410	
91-94-13,3'-Dichlorobenzidine		410	U
56-55-3Benzo(a)anthracene	_	410	Ū
218-01-9Chrysene	-	410	ับ [*]
117-81-7bis(2-Ethylhexyl)phthalate	-	270	J
117-84-0Di-n-octylphthalate	- :	410	-
205-99-2Benzo (b) fluoranthene	-	410	
207-08-9Benzo(k) fluoranthene	- `	410	
50 22 0 Para (a) paragraph	-		_
50-32-8Benzo (a) pyrene	_ .	410	l .
193-39-5Indeno(1,2,3-cd)pyrene	_	4.10	, -
53-70-3Dibenzo(a,h)anthracene		410	1
191-24-2Benzo(g,h,i)perylene	_ ·	410	U
		f	
) - Cannot be separated from Diphenylamine			-

Cannot be separated from Diphenylamine

OLMO3.0

JW546

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949691

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

GH049691B66

Level: (low/med) LOW

Date Received: 07/03/99

% Moisture: 20

decanted: (Y/N) N

Date Extracted: 07/08/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	• 1				
Number	TICs	found:	24	•	

CAS NUMBER		COMPOUND NAME	RT	EST.	CONC.	Q	
	TATION	(DC) blank Cons	5.39		250	JB-/	ō -
1.	UNICHOWN	(30)			350		
2.	UNKNOWN		6.00		430	JW	•
3.	UNKNOMN	blank Cont.	15.01	١.,	900	JN)
4.	UNKNOWN	CARBOXYLIC ACID	15.19	<u> </u>	3200	J /	
5.	UNKNOWN	and the second s	16.38	<u> </u>	380	JN	
6.		CARBOXYLIC ACID	16.61	ļ.	7100	J	
7.	UNKNOWN	CARBOXYLIC ACID	16.73		960	J	
8.	UNKNOWN		17.34		610	J	
9.	UNKNOWN		18.36		230	J	
LO.	UNKNOWN		21.65		510	J	
ii.	UNKNOWN		21.87		360	J	
[2.	UNKNOWN		21.97	€ and the second	520	J	
L3.	UNKNOWN		22.20		440	J	
L4.	UNKNOWN		22.72		270	J	
L 4. L 5.			22.99	• .	310	J	
	UNKNOWN		22.99			1 - 1	
16.	UNKNOWN		23.16		220	J	
L7.	UNKNOWN		23.44		360	J	
.8.	UNKNOWN		25.21		240	J	
L9.	UNKNOWN		26.53	İ	240	J	
20.	UNKNOWN		27.21		200	J	
21.	UNKNOWN		27.65		420	J	
22.	UNKNOWN		28.16		170	J	
23.	UNKNOWN		28.51		280	JJ	
24	UNKNOWN		29.32	1	270	JV	•
25.	OZ. ZZ. G. I.Z.				- : :	'	
26.			.				-
27.				· 		I	
28.	· 			.		1	
				.			
29.			.	.			~
30.	-	to the second second				1	

CP 9-1-99 OLM03.0

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949692

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049692B66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: 7 decanted: (Y/N) N Date Extracted:07/08/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

350 U 108-95-2----Phenol 111-44-4----bis(2-Chloroethyl)ether 350 U 95-57-8----2-Chlorophenol 350 U 350 U 541-73-1----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene_95-50-1-----1,2-Dichlorobenzene_ 350 U 350 U 95-48-7----2-Methylphenol 108-60-1----2,2'-oxybis(1-Chloropropane) 350 U 350 U 106-44-5----4-Methylphenol 350 U 621-64-7----N-Nitroso-di-n-propylamine 350 U 350 U 67-72-1-----Hexachloroethane 98-95-3-----Nitrobenzene 350 T 78-59-1-----Isophorone 350 U 88-75-5----2-Nitrophenol 350 U 105-67-9-----2,4-Dimethylphenol_ 350 U 111-91-1-----bis(2-Chloroethoxy)methane 350 U 120-83-2----2,4-Dichlorophenol___ 350 U 120-82-1-----1,2,4-Trichlorobenzene 350 U 91-20-3----Naphthalene 350 U 106-47-8----4-Chloroaniline 350 U 350 U 350 U 87-68-3-----Hexachlorobutadiene 59-50-7----4-Chloro-3-methylphenol____ 91-57-6----2-Methylnaphthalene 350 U 77-47-4-----Hexachlorocyclopentadiene___ 350 U 88-06-2----2,4,6-Trichlorophenol 350 U 95-95-4----2,4,5-Trichlorophenol____ 890 U 91-58-7----2-Chloronaphthalene 350 U 88-74-4----2-Nitroaniline 890 U 350 U 131-11-3-----Dimethylphthalate 208-96-8-----Acenaphthylene 350 U 606-20-2----2,6-Dinitrotoluene 350 U 99-09-2----3-Nitroaniline 890 U 83-32-9-----Acenaphthene 350 U

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949692

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049692B66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: 7 decanted: (Y/N) N Date Extracted: 07/08/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

.]	51-28-52,4-Dinitrophenol	The second second	890 U		
	100-02-74-Nitrophenol		890 U	「ゴー	
ı	132-64-9Dibenzofuran		350 T	Ţ	
	121-14-22,4-Dinitrotoluene	*	350 T	J	
	84-66-2Diethylphthalate		350 T	J !	i
	7005-72-34-Chlorophenyl-phenylether	•	350 T	J	ĺ
	86-73-7Fluorene	. • .	350 T	J	ĺ
	100-01-64-Nitroaniline		890 T	J	ĺ
- 1	534-52-14,6-Dinitro-2-methylphenol_		890 T		ĺ
- 1	86-30-6N-nitrosodiphenylamine (1)	the second of the second	350 T		
	101-55-34-Bromophenyl-phenylether		350 t	_	
·	110 74 1 Horrach orchonsone	٠.	350 t	-	
	118-74-1Hexachlorobenzene		890 1		
٠, ا	87-86-5Pentachlorophenol	l	350 1		
	85-01-8Phenanthrene		350 1		
	120-12-7Anthracene			J	l
•	86-74-8Carbazole		1	J	ŀ
	84-74-2Di-n-butylphthalate			-	l
	206-44-0Fluoranthene			J	١
	129-00-0Pyrene	•		J /	١
٠	85-68-7Butylbenzylphthalate		1	IJ.	١
l	91-94-13,3'-Dichlorobenzidine			IJ	١
.	56-55-3Benzo (a) anthracene	, i	350		١
ı	218-01-9Chrysene			Ü ,	١
	117-81-7bis(2-Ethylhexyl)phthalate			J	
	117-84-0Di-n-octylphthalate		350		
	205-99-2Benzo(b) fluoranthene		350		1
	207-08-9Benzo(k) fluoranthene		350	U	۱
	50-32-8Benzo(a)pyrene		350	Ū	١
	193-39-5Indeno(1,2,3-cd)pyrene		350	Ū	1
	53-70-3Dibenzo(a,h)anthracene	•	350	Ū ·	
	191-24-2Benzo(g,h,i)perylene	•	350		١
	191 2- 2 Della (2) 11/1/ Per 1 10110	•			
1-	1) - Cannot be separated from Diphenylamine	. 1	I .		. 1
١-	r, caminot be separated from bipmenyramine			ΔM .	

FORM I SV-2

GOWLIEC CLICK

OLM03.0

Lab Name: COMPUCHEM Contract: 68D50004 JW564

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949692

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: GH049692B66

Level: (low/med) LOW

Date Received: 07/03/99

% Moisture: 7 decanted: (Y/N) N

Date Extracted:07/08/99

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

					·			
CAS NUMBER	*	COMPOUND	NAME		RT	EST.	CONC.	, Q
70 00 5		:=====:	=====		=======	======		=====
1. 79-92-5 2.	CAMPHENE	<u> </u>			5.61		200	NJ,
3.	UNKNOWN		•	,	5.89		370	
	UNKNOWN	•			6.75		320	J
4. 5.	UNKNOWN				6.96		190	J
6.	UNKNOWN		•		10 08		260	J
7.	UNKNOWN				10.38		930	J
8.	UNKNOWN		•		10.49		320	J
9.	UNKNOWN	* -			10.56		320	J
10.	UNKNOWN			· .	10.68		220	J
11.	UNKNOWN				21.25		250	
12.	UNKNOWN				21.44		310	J
13.	UNKNOWN	• • •			21.69	•	700	J
14.	UNKNOWN				21.74		530	J
15.	UNKNOWN				21.81		50.0	J.
16.	UNKNOWN				21.97		1100	J
17.	UNKNOWN			•	22.30	•	. 550	J
18.	UNKNOWN				22.46	·	500	J
19.	UNKNOWN				22.53		490	
20.	UNKNOWN		•		22.62	•	370	<u>J</u>
21.	UNKNOWN				22.76	***	320	J
22.	UNKNOWN				22.88		290	
23.	UNKNOWN	•	•		23.02	. `	420	J
23.	UNKNOWN			•	23.09		280	
25.	UNKNOWN	•			23.28		270	J
26.	UNKNOWN				23.48		320	J
27.	UNKNOWN				23.67		250	
28.	UNKNOWN				23.76		380	
29.	UNKNOWN			•	24.46		320	J
30.	UNKNOWN			* **	28.17		290	J
30.	UNKNOWN				29.10		390	JV

0 4-1-99

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949693

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049693B66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: 20 decanted: (Y/N) N Date Extracted: 07/08/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

	108-95-2Phenol				410	IJ	
-	111-44-4bis(2-Chloroethyl)ether				410	_	
١	95-57-82-Chlorophenol			٠.	410	_	
١	541-73-11,3-Dichlorobenzene				410	_	
I	106-46-71,4-Dichlorobenzene				410		
l	95-50-11,2-Dichlorobenzene				410		
l	95-48-72-Methylphenol				410		
l	108-60-12,2'-oxybis(1-Chloropropane)				410	1	
ı	106-44-54-Methylphenol		•		66		
l	621-64-7N-Nitroso-di-n-propylamine				410	l .	
١	67-72-1Hexachloroethane				410		
l	98-95-3Nitrobenzene		• •	٠	410		
l	78-59-1Isophorone				410	_	
l	88-75-52-Nitrophenol			. •	410		
	105-67-92,4-Dimethylphenol	•			410	_	
	111-91-1bis(2-Chloroethoxy)methane				410	_	
	120-83-22,4-Dichlorophenol	, .		٠	410	-	
ŀ	120-82-11,2,4-Trichlorobenzene				410	_	
	91-20-3Naphthalene				410		
	106-47-84-Chloroaniline				410		
	87-68-3Hexachlorobutadiene				410	ı –	
	59-50-74-Chloro-3-methylphenol				410	. –	
	91-57-62-Methylnaphthalene			- '	410	. ~	
	77-47-4Hexachlorocyclopentadiene				410	_	
	88-06-22,4,6-Trichlorophenol				410	1 -	
	95-95-42.4.5-Trichlorophenol		:		1000	1	
	91-58-72-Chloronaphthalene				410		
	88-74-42-Nitroaniline				1000		
	131-11-3Dimethylphthalate				410	1	
	208-96-8Acenaphthylene				410	υ	
	606-20-22,6-Dinitrotoluene			٠	410	Ü	
	99-09-23-Nitroaniline		· .		1000	π	
	83-32-9Acenaphthene		•		410	TT	
					=10	١	
						ı	

Lab Name: COMPUCHEM Contract: 68D50004 JW565

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949693

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH049693B66

Level: (low/med) LOW

Date Received: 07/03/99

% Moisture: 20 decanted: (Y/N) N Date Extracted: 07/08/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.7

1000 U 100-02-74-Nitrophenol 1000 U 100-02-74-Nitrophenol 1000 U 132-64-9Dibenzofuran 410 U 410	CAS NO.	COMPOUND,	(ug/L or ug/Kg) UG/KG	Q
100-02-74-Nitrophenol	51-28-5	2 4-Dinitroph	enol	1000	TT
132-64-9	100-02-7	4-Nitrophenol			
121-14-22,4-Dinitrotoluene	132-64-9	Dibenzofuran			
84-66-2			luene		
7005-72-34-Chlorophenyl-phenylether 410 U 86-73-7Fluorene 410 U 534-52-14,6-Dinitro-2-methylphenol 1000 U 86-30-6N-nitrosodiphenylamine (1) 410 U 101-55-34-Bromophenyl-phenylether 410 U 118-74-1Hexachlorobenzene 410 U 87-86-5Pentachlorophenol 1000 U 85-01-8Phenanthrene 410 U 120-12-7Anthracene 410 U 84-74-2Din-butylphthalate 410 U 206-44-0Fluoranthene 410 U 129-00-0	84-66-2	Diethylphthal	ate.		
86-73-7	7005-72-3	4-Chloropheny	l-phenylether		
100-01-64-Nitroaniline	86-73-7	Fluorene			
534-52-14,6-Dinitro-2-methylphenol 1000 U 86-30-6N-nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 410 U 118-74-1Hexachlorobenzene 410 U 87-86-5Pentachlorophenol 1000 U 85-01-8Phenanthrene 410 U 120-12-7Anthracene 410 U 86-74-8Carbazole 410 U 84-74-2Di-n-butylphthalate 410 U 206-44-0	100-01-6	4-Nitroanilin	<u> </u>		
86-30-6N-nitrosodiphenylamine (1) 410 U 101-55-34-Bromophenyl-phenylether 410 U 118-74-1Hexachlorobenzene 410 U 87-86-5Pentachlorophenol 1000 U 85-01-8	534-52-1	4.6-Dinitro-2	-methylphenol		
101-55-34-Bromophenyl-phenylether	86-30-6	N-nitrosodiph	envlamine (1)		
118-74-1	101-55-3	4-Bromophenyl	-phenylether		
87-86-5Pentachlorophenol 1000 U 85-01-8Phenanthrene 410 U 120-12-7Anthracene 410 U 86-74-8Carbazole 410 U 84-74-2Di-n-butylphthalate 410 U 206-44-0Fluoranthene 410 U 129-00-0Pyrene 410 U 85-68-7Butylbenzylphthalate 410 U 91-94-13,3'-Dichlorobenzidine 410 U 56-55-3	118-74-1	Hevachloroben	zene		
85-01-8Phenanthrene 410 U 120-12-7Anthracene 410 U 86-74-8Carbazole 410 U 84-74-2Di-n-butylphthalate 410 U 206-44-0Fluoranthene 410 U 129-00-0Pyrene 410 U 85-68-7Butylbenzylphthalate 410 U 91-94-13,3'-Dichlorobenzidine 410 U 56-55-3	87-86-5	Pentachloroph	enol		
120-12-7Anthracene 410 U 86-74-8Carbazole 410 U 84-74-2	85-01-8	Dhenanthrene			
86-74-8	120-12-7	Anthracene			
84-74-2Di-n-butylphthalate 410 U 206-44-0Fluoranthene 410 U 129-00-0Pyrene 410 U 85-68-7Butylbenzylphthalate 410 U 91-94-13,3'-Dichlorobenzidine 410 U 56-55-3Benzo(a) anthracene 410 U 218-01-9Chrysene 410 U 117-81-7bis(2-Ethylhexyl)phthalate 68 J 117-84-0Benzo(b)fluoranthene 410 U 205-99-2Benzo(b)fluoranthene 410 U 207-08-9Benzo(k)fluoranthene 410 U 50-32-8Benzo(a)pyrene 410 U 193-39-5Indeno(1,2,3-cd)pyrene 410 U 53-70-3Benzo(g,h,i)perylene 410 U	86-74-8	Carbarale	**************************************		
206-44-0Fluoranthene 410 U 129-00-0Pyrene 410 U 85-68-7	84-74-2	Di n buty pht	halate		
129-00-0	206-44-0-	DI-H-Ducyiphic.	narace		
85-68-7	129-00-0-	Fluoranchene_			
56-55-3	25-60 7	Pyrene			
56-55-3	01 04 1	BucArpenzArbu	Luarace		
218-01-9	56-55 3	3,3,-DICUTOLO	penziqine		
117-81-7bis (2-Ethylhexyl) phthalate 68 J 117-84-0Di-n-octylphthalate 410 U 205-99-2Benzo (b) fluoranthene 410 U 207-08-9Benzo (k) fluoranthene 410 U 50-32-8Benzo (a) pyrene 410 U 193-39-5Indeno (1, 2, 3-cd) pyrene 410 U 53-70-3	30-33-3	Benzo(a) anthr	acene		
117-84-0Di-n-octylphthalate 410 U 205-99-2Benzo (b) fluoranthene 410 U 207-08-9Benzo (k) fluoranthene 410 U 50-32-8Benzo (a) pyrene 410 U 193-39-5Indeno (1,2,3-cd) pyrene 410 U 53-70-3Dibenzo (a, h) anthracene 410 U 191-24-2Benzo (g, h, i) perylene 410 U	117 01 7	Chrysene			•
205-99-2Benzo (b) fluoranthene 410 U 207-08-9Benzo (k) fluoranthene 410 U 50-32-8Benzo (a) pyrene 410 U 193-39-5Indeno (1,2,3-cd) pyrene 410 U 53-70-3Dibenzo (a,h) anthracene 410 U 191-24-2Benzo (g,h,i) perylene 410 U	117-81-7	pis(2-Etuvine	xy1)pntna1ate		1 '
207-08-9Benzo (k) fluoranthene 410 U 50-32-8Benzo (a) pyrene 410 U 193-39-5Indeno (1, 2, 3-cd) pyrene 410 U 53-70-3Dibenzo (a, h) anthracene 410 U 191-24-2Benzo (g, h, i) perylene 410 U	11/-84-0	Dr-u-octAtbut	nalace		1
50-32-8Benzo(a)pyrene 410 U 193-39-5Indeno(1,2,3-cd)pyrene 410 U 53-70-3Dibenzo(a,h)anthracene 410 U 191-24-2Benzo(g,h,i)perylene 410 U	205-99-2	Benzo(b) fluor	anthene		
193-39-5Indeno(1,2,3-cd)pyrene 410 U 53-70-3Dibenzo(a,h)anthracene 410 U 191-24-2Benzo(g,h,i)perylene 410 U	207-08-9	Benzo(k)fluor	anthene		
53-70-3	50-32-8	Benzo(a)pyren	e		1 -
191-24-2Benzo(g,h,i)perylene 410 U	193-39-5	Indeno(1,2,3-	cd)pyrene		+
	53-70-3	Dibenzo(a,h)a	nthracene		1
	191-24-2	Benzo(g,h,i)p	erylene	410	U
) - Cannot be separated from Diphenvlamine					
) - Cannor be	separated from D	iphenylamine		•

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JW565

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949693

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH049693B66

Date Received: 07/03/99

Level: (low/med)

% Moisture: 20

decanted: (Y/N) N

LOM.

Date Extracted:07/08/99

Injection Volume: 2.0(uL)

Date Analyzed: 07/13/99 Dilution Factor: 1.0

Concentrated Extract Volume: 500(uL)

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs found: 12

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 464-48-2 6.	UNKNOWN (BC) UNKNOWN UNKNOWN UNKNOWN SUBSTITUTED BENZENE BICYCLO[2.2.1] HEPTAN-2-ONE, UNKNOWN CARBOXYLIC ACID UNKNOWN CARBOXYLIC ACID,	5.40 5.54 6.31 6.51 7.98 8.21 15.13	250 110 190 100 120 220	R JN JN JN JN JN JN JN JN JN JN JN JN JN
8. 9. 10. 11. 12.	UNKNOWN CARBOXYLIC ACID UNKNOWN LAW COMMUNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	21.51 21.72 21.78 22.58 24.42	170 340 180 100 120	J/ J/ J/
14. 15. 16. 17. 18.				
20. 21. 22. 23. 24.				
26. 27. 28. 29.				

FORM I SV-TIC

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949971

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049971A66

Level: (low/med) LOW Date Received: 07/08/99

% Moisture: 7 decanted: (Y/N) N Date Extracted: 07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO. COMPOUND CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

108-95-2-----Phenol 111-44-4-----bis(2-Chloroethyl)ether 350 U 350 U 350 U 350 U 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene 350 U 350 U 95-48-7----2-Methylphenol 108-60-1----2;2'-oxybis(1-Chloropropane) 350 U 350 U 106-44-5----4-Methylphenol 350 U 621-64-7----N-Nitroso-di-n-propylamine 350 U 67-72-1-----Hexachloroethane 350 LT. 98-95-3-----Nitrobenzene 350 U 78-59-1-----Isophorone__ 88-75-5----2-Nitrophenol
105-67-9-----2,4-Dimethylphenol 350 U 350 U 350 U 111-91-1-----bis (2-Chloroethoxy) methane 350 U 120-83-2----2,4-Dichlorophenol 350 U 120-82-1----1,2,4-Trichlorobenzene 350 U 91-20-3----Naphthalene 350 U 106-47-8----4-Chloroaniline 350 U 87-68-3-----Hexachlorobutadiene 350 U 59-50-7----4-Chloro-3-methylphenol____ 350 U 91-57-6----2-Methylnaphthalene 350 U 77-47-4-----Hexachlorocyclopentadiene 350 T 88-06-2----2,4,6-Trichlorophenol____ 350 U 95-95-4----2,4,5-Trichlorophenol____ 890 U 91-58-7----2-Chloronaphthalene 350 U 88-74-4----2-Nitroaniline 890 U 131-11-3-----Dimethylphthalate____ 350 U 208-96-8-----Acenaphthylene____ 350 U 606-20-2----2,6-Dinitrotoluene 99-09-2----3-Nitroaniline 350 U 890 U 83-32-9-----Acenaphthene___ 350 U

JW574

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949971

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH049971A66

Level: (low/med) LOW

Date Received: 07/08/99

% Moisture: 7 decanted: (Y/N) N

Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

		CONCENTRATIO	ON UNITS:	
	CAS NO.	COMPOUND (ug/L or ug,	/Kg) UG/KG	Q
ĺ				T I
١	51-28-5	2,4-Dinitrophenol	890	
	100-02-7	4-Nitrophenol	890	
	132-64-9	Dibenzofuran	350	
- 1	121-14-2	2,4-Dinitrotoluene	350	
- 1	84-66-2	Diethylphthalate	350	
	7005-72-3	4-Chlorophenyl-phenylether	350	
- 1	86-73-7		350	U
- 1		4-Nitroaniline	890	U
-1	534-52-1	4,6-Dinitro-2-methylphenol	890	U
- 1		N-nitrosodiphenylamine (1)	350	U
		4-Bromophenyl-phenylether	350	U
		Hexachlorobenzene	350	U
I		Pentachlorophenol	890	U
		Phenanthrene	68	J
.		Anthracene	350	ע ו
		Carbazole	350	U
ı		Di-n-butylphthalate	350	U
		Fluoranthene	140	J
	129-00-0		190	J
		Butylbenzylphthalate	350	U
	91-94-1	3,3'-Dichlorobenzidine	350	U
.		Benzo(a)anthracene	51	
- 1	218-01-9	Chrysene	59	J
-	117-81-7	bis(2-Ethylhexyl)phthalate	580	
- 1		Di-n-octylphthalate	350	
	205-99-2	Benzo(b)fluoranthene	95	J
	207-08-9	Benzo(k)fluoranthene	350	U
	50-32-8	Benzo(a)pyrene	93	J
		Indeno(1,2,3-cd)pyrene	67	ין ז
		Dibenzo(a,h)anthracene	350) U
	191-24-2	Benzo(g,h,i)perylene	120) J
ļ			****	
(=) - Cannot be	separated from Diphenylamine		n -6
			a fi	1-97
			U	•
		FORM I SV-2		OLM03.0

JW574 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949971

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049971A66

Level: (low/med) LOW Date Received: 07/08/99

% Moisture: 7 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS: Number TICs found: 20 (ug/L or ug/Kg) UG/KG

7. 8. 9.	UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	20.39 20.74 21.14 21.27 21.55 21.62 21.81	170 75 92 72 86 86 74 190	מממממממ
11. 12. 13. 14. 15. 16. 17. 18.	UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	22.39 22.76 22.84 22.91 23.02 23.19 23.39 24.14 24.74 27.42	120 82 110 89 80 200 200 180 90 73	לממטממממטמטטטטטטטטטטטטטטטטטטטטטטטטטטטט

OP 9-1-9 OLM03.0

JW575

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949972

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH049972A66

Level: (low/med) LOW Date Received: 07/08/99

% Moisture: 4 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

CONCENTRATION UNITS:

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND (ug/L o	or ug/Kg)	UG/KG	Q
108-95-2	Phenol		340	U
111-44-4	bis(2-Chloroethyl)ether		340	
95-57-8	2 Chiorophonol -		340	
541-73-1	1 3-Dichlorobenzene		340	
TOO-40-/	1.4-D1CD1Orobenzene	i i	340	
·	D-Dichloropenzene		340	
95-48-7	2-Methylphenol		340	
108-60-1	2.2'-oxvbis(1-Chloropror	pane)	340	
106-44-5	4-Methylphenol	Table 18	340	
621-64-7	- N-Nitrogo-di-n-propylami	ne	340	
67-72-1	Hexachloroethane		340	
98-95-3	Nitrobenzene		340	
78-59-1	Isophorone		340	
88-75-5	2-Nitrophenol		340	
105-67-9	2,4-Dimethylphenol		340	
111-91-1	bis(2-Chloroethoxy) metha	na l	340	
120-83-2	2,4-Dichlorophenol	····e	340 340	
120-82-1	1,2,4-Trichlorobenzene_		340	
91-20-3			340	
106-47-8	Naphthalene 4-Chloroaniline		340	
87-68-3	Hexachlorobutadiene			
59-50-7	4-Chloro-3-methylphenol		340	
91-57-6	2-Methylnaphthalene		340	
77-47-4	Hexachlorocyclopentadier		54	
88-06-2	2,4,6-Trichlorophenol		340	
95-95-4	2,4,5-Trichlorophenol		340	
91-58-7	2-Chloropanhthalono	 .	860	
88-74-4	2-Chloronaphthalene 2-Nitroaniline		340	
131-11-2	Dimothy? h-h-late		860	
208-06-0-	Dimethylphthalate		340	
606-20-2	Acenaphtnylene		340	
000-20-2	2;6-Dinitrotoluene		340	
22-U2-Z	3-Nitroaniline		860	
~ · · · · · · · · · · · · · · · · · · ·	^ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		410	

JW575

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949972

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH049972A66

Level: (low/med) LOW

Date Received: 07/08/99

% Moisture: 4 decanted: (Y/N) N

Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

51-28-52,4-Dinitrophenol
132-64-9

JW575

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949972

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: GH049972A66

Level: (low/med)

Date Received: 07/08/99

% Moisture: 4

LOW

decanted: (Y/N) N

Date Extracted: 07/09/99

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) Y

pH: 7.6

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CP 9-1-99 OLM03.0

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949972

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GD049972A66

Level: (low/med) LOW Date Received: 07/08/99

% Moisture: 4 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

108-95-2Phenol 111-44-4bis(2-Chloroethyl)ether 95-57-82-Chlorophenol 541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene	1700 U 1700 U 1700 U 1700 U 1700 U 1700 U
111-44-4bis(2-Chloroethyl)ether 95-57-82-Chlorophenol 541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene	1700 U 1700 U 1700 U 1700 U 1700 U
95-57-82-Chlorophenol 541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene	1700 U 1700 U 1700 U 1700 U
541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene	1700 U 1700 U
106-46-71,4-Dichlorobenzene	1700 U 1700 U
	1700 ប
95-50-11,2-Dichlorobenzene	1 -
95-48-72-Methylphenol	1700 U
108-60-12,2'-oxybis(1-Chloropropane)	1700 U
106-44-54-Methylphenol	1700 U
621-64-7N-Nitroso-di-n-propylamine	1700 U
67-72-1Hexachloroethane	1700 0
98-95-3Nitrobenzene	1700 0
78-59-1Isophorone	1700 U
88-75-52-Nitrophenol	1700 U
105-67-92,4-Dimethylphenol	1700 U
111-91-1bis (2-Chloroethoxy) methane	1700 U
120-83-22,4-Dichlorophenol	1700 0
120-82-11,2,4-Trichlorobenzene	1700 U
91-20-3Naphthalene	1700 U
106-47-84-Chloroaniline	1700 U .
87-68-3Hexachlorobutadiene	1700 U
59-50-74-Chloro-3-methylphenol	
91-57-62-Methylnaphthalene	1700 U 1700 U
77-47-4Hexachlorocyclopentadiene	
98-06-2 A C Weight and anothered	1700 U
88-06-22,4,6-Trichlorophenol	1700 U
95-95-42,4,5-Trichlorophenol	4300 U
91-58-72-Chloronaphthalene	1700 U
88-74-42-Nitroaniline	4300 U
131-11-3Dimethylphthalate	1700 U
208-96-8Acenaphthylene	1700 U
606-20-22,6-Dinitrotoluene	1700 U
99-09-23-Nitroaniline	4300 U
83-32-9Acenaphthene	390 DJ

FORM I SV-1

OP 0LM03.0

JW575DL

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949972

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

GD049972A66

Level: (low/med) LOW

Date Received: 07/08/99

decanted: (Y/N) N

Date Extracted:07/09/99

% Moisture: 4

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y

pH: 7.6

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

		<u> </u>
51-28-52,4-Dinitrophenol	4300 200 1700 1700 1700 340 4300 4300 1700 1700 4300 5600 1500 1100 1700 6400 6200 1700 1700 3200 3200	त्राध्य वत्राक्षेत्रववववववववव्रवविव्यव
85-68-7Butylbenzylphthalate 91-94-13,3'-Dichlorobenzidine 56-55-3Benzo(a) anthracene 218-01-9Chrysene 117-81-7	1700 1700 3200 3200 3200 1700 1700 2900 1100 2000 1100 320 450	दिन द टिन टिन टिन प्रतिविध्य
(1) - Cannot be separated from Diphenylamine	e a o	ρí

FORM I SV-2

CP9-1-99 OLM03.0

Contract: 68D50004 Lab Name: COMPUCHEM

JW575DL

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949972

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: GD049972A66

Level: (low/med) LOW

Date Received: 07/08/99

% Moisture: 4 decanted: (Y/N) N

Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 19

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN METHYLANTHRACENE METHYLANTHRACENE CYCLOPENTAPHENANTHRENE METHYLANTHRACENE PHENYLNAPHTHALENE BENZOFLUORENE UNKNOWN UNKNOWN UNKNOWN METHYLTRIPHENYLENE BENZOFLUORANTHENE UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN PAH UNKNOWN PAH UNKNOWN	6.52 14.61 14.64 14.78 14.83 15.17 17.06 17.22 17.27 18.13 18.44 19.83 21.72 23.84 23.91 24.09 24.54 24.77 25.39	390 460 710 790 480 380 740 460 470 370 360 490 550 360 960 490 1000 2200	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950019

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050019A66

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: 7 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

	CONCENTRA	ATION UNITS:
CAS NO.	COMPOUND (ug/L or	ug/Kg) UG/KG Q
108-95-2	Phenol	350 U
111-44-4	bis(2-Chloroethyl)ether	350 U
1 95-57-8	2-Chlorophenol	· 350 U
541-73-1	1,3-Dichlorobenzene	350 U
106-46-7	1,4-Dichlorobenzene	350 U
95-50-1	1,2-Dichlorobenzene	350 0
95-48-7	2-Methylphenol	350 U
108-60-1	2,2'-oxybis(1-Chloropropar	ie) 350 U
106-44-5	4-Methylphenol	350 U
621-64-7	2,2'-oxybis(1-Chloropropar 4-Methylphenol N-Nitroso-di-n-propylamine	350 U
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	350 U
78-59-1	Isophorone	350 U
88-75-5	2-Nitrophenol	350 U
105-67-9	2.4-Dimethylphenol	350 U
111-91-1	2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy)methane	350 0
120-83-2	2,4-Dichlorophenol	350 U
1 120-82-1	1 2 4-Trichlorobenzene	350 U
91-20-3	Naphthalene	48 J
1 106-47-8	4-Chloroaniline	350 U
87-68-3	Hexachlorobutadiene	350 U
59-50-7	4-Chloro-3-methylphenol	350 U
91-57-6	2-Methylnaphthalene	290 J
77-47-4	Hexachlorocyclopentadiene	350 U
88-06-2	2,4,6-Trichlorophenol	350 U
95-95-4	2.4.5-Trichlorophenol	890 U
1 91-58-7	2-Chloronaphthalene	350 U
88-74-4	2-Nitroaniline	890 U
131-11-3	Dimethylphthalate	350 U
1 208-96-8	Acenaphthylene	350 0
606-20-2	2;6-Dinitrotoluene 3-Nitroaniline	350 U
99-09-2	3-Nitroaniline	890 U
83-32-9	Acenaphthene	350 U
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FORM I SV-1

G-1-99 OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

JW578

Lab Name: COMPUCHEM

Contract: 68D50004

SDG No.: JW542

Lab Code: COMPU Case No.: 27165 SAS No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 950019

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: GH050019A66

Level: (low/med) LOW

Date Received: 07/09/99

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 07/09/99

Injection Volume: 2.0(uL)

Date Analyzed: 07/14/99

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Concentrated Extract Volume: 500(uL)

,	CAS NO.	COMPOUND	(ug/L or ug/Kg)	. •	. (2	
	100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 86-30-6 101-55-3 118-74-1 87-86-5 120-12-7 86-74-8 206-44-0 206-44-0 129-00-0 85-68-7 218-01-9 117-81-7 218-01-9 217-84-0 207-08-9	-Dibenzofuran -2,4-Dinitrotoluer -Diethylphthalate -4-Chlorophenyl-ph -Fluorene -4-Nitroaniline -4,6-Dinitro-2-met -N-nitrosodiphenyl -4-Bromophenyl-phe -Hexachlorobenzene -Pentachlorophenol -Phenanthrene -Anthracene -Carbazole -Di-n-butylphthala -Fluoranthene -Pyrene -Butylbenzylphthala -3,3'-Dichlorobens -Benzo(a) anthracen	nemylether	890 890 890 890 895 895 895 895 895 895 895 895	ממממממממממממממממממממממממ		
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FORM I SV-2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JW578

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950019

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: GH050019A66

Level:

(low/med) LOW

Date Received: 07/09/99

% Moisture: 7

decanted: (Y/N) N

Date Extracted:07/09/99

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 07/14/99

Injection Volume:

2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) Y

pH: 7.1

Number TICs found: 23

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN UNKNOWN	11.50 11.70 11.77 11.89 12.03 12.36 12.75 12.85 12.91 13.48 13.48 13.59 14.04 14.13 14.38 14.57 14.73 14.85 14.99 15.43 15.59 21.81	130	נוניניניניניניניניניניניניניניני

(199-1-95 OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950020

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050020A66

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: 13 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2-----Phenol 380 U

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950020

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050020A66

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: 13 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 51-28-5----2,4-Dinitrophenol 950 U 100-02-7----4-Nitrophenol_____ 950 U 132-64-9-----Dibenzofuran 380 U 121-14-2----2,4-Dinitrotoluene 380 U 84-66-2-----Diethylphthalate 380 U 7005-72-3----4-Chlorophenyl-phenylether 380 86-73-7----Fluorene ,380 U 100-01-6----4-Nitroaniline 950 U 534-52-1----4,6-Dinitro-2-methylphenol_ 950 U 86-30-6----N-nitrosodiphenylamine (1) _____ 101-55-3----4-Bromophenyl-phenylether____ 380 U 380 U 118-74-1-----Hexachlorobenzene 380 U 87-86-5----Pentachlorophenol 950 U 85-01-8-----Phenanthrene 92 J 120-12-7-----Anthracene 380 U 86-74-8-----Carbazole 380 U 380 U 84-74-2----Di-n-butylphthalate 206-44-0-----Fluoranthene 120 J 129-00-0-----Pyrene 120 J 380 U 380 U 50 J 85-68-7-----Butylbenzylphthalate 91-94-1----3,3'-Dichlorobenzidine 56-55-3-----Benzo(a)anthracene 218-01-9-----Chrysene 71 J 117-81-7-----bis(2-Ethylhexyl)phthalate 300 J 117-84-0-----Di-n-octylphthalate 380 U 205-99-2----Benzo(b) fluoranthene 52 J 207-08-9-----Benzo(k)fluoranthene 380 U 50-32-8-----Benzo(a) pyrene 380 U 193-39-5-----Indeno(1,2,3-cd)pyrene_ 380 U 53-70-3-----Dibenzo(a,h)anthracene 380 U 191-24-2----Benzo(g,h,i)perylene___ 380 U (1) - Cannot be separated from Diphenylamine

FORM I SV-2

OLM03.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JW579 Contract: 68D50004

Lab Name: COMPUCHEM

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950020

Lab Code: COMPU Case No.: 27165 SAS No.:

Lab File ID: GH050020A66

Sample wt/vol: 30.0 (g/mL) G

Level: (low/med) LOW

Date Received: 07/09/99

% Moisture: 13 decanted: (Y/N) N

Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.7

Number TICs found: 21

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.		6.67 15.64 16.27 17.22 21.06 21.55 21.60 21.67 21.83 22.30 24.25 24.83 25.07 25.28 26.26 26.77 26.91 28.25	640 380 1200 710 720 770 550 750 1100 610 1400 860 750 730 1100 570 600 760 540 420 1000	\

V89-1-99 OLM03.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

JW580

Lab Name: COMPUCHEM

Lab Code: COMPU

Contract: 68D50004

SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950021

Case No.: 27165 SAS No.:

Sample wt/vol: Lab File ID: 30.0 (g/mL) G GH050021A66

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: 6 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

108-95-2----Phenol 350 U 111-44-4-----bis(2-Chloroethyl)ether 350 U 95-57-8----2-Chlorophenol 350 U 541-73-1----1,3-Dichlorobenzene 350 U 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene 350 U 350 U 95-48-7----2-Methylphenol 108-60-1----2,2'-oxybis(1-Chloropropane) 350 U 350 U 106-44-5----4-Methylphenol 350 U 621-64-7----N-Nitroso-di-n-propylamine 350 U 67-72-1-----Hexachloroethane 350 U 98-95-3-----Nitrobenzene 350 U 78-59-1-----Isophorone 350 U 88-75-5----2-Nitrophenol 105-67-9-----2,4-Dimethylphenol____ 350 U 111-91-1-----bis(2-Chloroethoxy)methane 350 U 120-83-2----2,4-Dichlorophenol_ 120-82-1----1,2,4-Trichlorobenzene_ 350 U 350 U 91-20-3----Naphthalene 350 U 106-47-8----4-Chloroaniline 350 U 87-68-3-----Hexachlorobutadiene 350 U 59-50-7----4-Chloro-3-methylphenol____ 350 U 91-57-6----2-Methylnaphthalene 350 U 77-47-4-----Hexachlorocyclopentadiene 350 U 88-06-2----2,4,6-Trichlorophenol 350 U 95-95-4----2,4,5-Trichlorophenol 880 U 91-58-7----2-Chloronaphthalene 350 U 88-74-4----2-Nitroaniline 880 U 131-11-3-----Dimethylphthalate 350 U 208-96-8-----Acenaphthylene 350 U 606-20-2----2,6-Dinitrotoluene 350 U 99-09-2----3-Nitroaniline_____ 880 U 83-32-9-----Acenaphthene_ 350 TU

FORM I SV-1

99 OLM03.0

JW580

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950021

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050021A66

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: 6 decanted: (Y/N) N Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5----2,4-Dinitrophenol____ 880 U 100-02-7----4-Nitrophenol__ U 088 132-64-9-----Dibenzofuran 350 U 121-14-2----2,4-Dinitrotoluene 350 U 84-66-2-----Diethylphthalate___ 350 U 7005-72-3----4-Chlorophenyl-phenylether 350 U 86-73-7----Fluorene 350 U 100-01-6----4-Nitroaniline 880 U 534-52-1----4,6-Dinitro-2-methylphenol_ 880 U 86-30-6----N-nitrosodiphenylamine (1) 350 U 101-55-3----4-Bromophenyl-phenylether_ 350 U 118-74-1----Hexachlorobenzene 350 U 880 UJ 350 U 87-86-5----Pentachlorophenol 85-01-8-----Phenanthrene_ 120-12-7-----Anthracene 86-74-8-----Carbazole 350 U 84-74-2----Di-n-butylphthalate 350 U 206-44-0-----Fluoranthene 350 U 129-00-0-----Pyrene 350 U 85-68-7-----Butylbenzylphthalate 350 U 91-94-1----3,37-Dichlorobenzidine____ 350 T 56-55-3-----Benzo (a) anthracene____ 350 U 218-01-9-----Chrysene 350 U 117-81-7-----bis(2-Ethylhexyl)phthalate 230 J 117-84-0-----Di-n-octylphthalate_ 350 U 205-99-2----Benzo (b) fluoranthene 350 U 207-08-9----Benzo(k) fluoranthene 350 U 50-32-8-----Benzo (a) pyrene 350 U 193-39-5----Indeno(1,2,3-cd)pyrene_ 350 T 53-70-3----Dibenzo(a,h)anthracene___ 350 U 191-24-2----Benzo(q,h,i)perylene 350 U (1) - Cannot be separated from Diphenylamine

FORM I SV-2

1,47 9-1-97 OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

JW580

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

30.0 (g/mL) G

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950021

Sample wt/vol:

Lab File ID:

GH050021A66

LOW

Level: (low/med)

Concentrated Extract Volume:

Date Received: 07/09/99

% Moisture: 6

decanted: (Y/N) N

500 (uL)

Date Extracted: 07/09/99

Date Analyzed: 07/13/99

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.2

Number TICs found: 31

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

4. UNKNOWN 20.48 94 J N 5. UNKNOWN 21.02 96 J 6. UNKNOWN 21.09 230 J 7. UNKNOWN 21.23 150 J 8. UNKNOWN 21.34 260 J 9. UNKNOWN 21.44 180 J 10. UNKNOWN 21.62 240 J 11. UNKNOWN 21.70 200 J 12. UNKNOWN 21.77 220 J 13. UNKNOWN 21.88 420 J 14. UNKNOWN 22.11 210 J 15. UNKNOWN 22.32 210 J 16. UNKNOWN 22.41 140 J 17. UNKNOWN 22.48 340 J 18. UNKNOWN 22.95 150 J 19. UNKNOWN 23.02 87 J	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q ·
20	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27.	UNKNOWN CARBOXYLIC ACID UNKNOWN PHTHALATE UNKNOWN	======================================	140 100 120 94 96 230 150 260 180 240 200 220 420 210 210 140 340 150 87 120 190 95 91 100 290	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68D50004 JW580

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950021

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050021A66

Level: (low/med) LOW

Date Received: 07/09/99

% Moisture: 6 decanted: (Y/N) N

Date Extracted:07/09/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

Number TICs found: 31

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER		RT	EST. CONC.	1
1.	UNKNOWN	30.54	170	JN
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FORM I SV-TIC

OLM03.0 .

JP411

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950008

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 18

decanted: (Y/N) N

Date Received: 07/09/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 08/11/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

	319-84-6alpha-BHC	2.1 0.66 JPBU
١	319-85-7beta-BHC	2.1 U
١	319-86-8delta-BHC	2.1 U
١	58-89-9gamma-BHC (Lindane)	2.1 2.50 JPU
۱	76-44-8Heptachlor	2.1 U
I	309-00-2Aldrin	2.1 1.0 IPBU
١	1024-57-3Heptachlor epoxide	2.1 U
1	959-98-8Endosulfan I	2.1 U
١	60-57-1Dieldrin	4.2 3
١	72-55-94,4'-DDE	36 \$
١	72-20-8Endrin	4.0 U
١	33213-65-9Endosulfan II	4.0 U
١	72-54-84,4'-DDD	46 🗷
١	1031-07-8Endosulfan sulfate	4.0 1-3 IPBU
١	50-29-34,4'-DDT	4.1 PBNJ
١	72-43-5Methoxychlor	21 U
ı	53494-70-5Endrin ketone	4.0 U
۱	7421-93-4Endrin aldehyde	4.0 0.18 IDBU
١	5103-71-9alpha-Chlordane	3.4 PJ
I	5103-74-2gamma-Chlordane	
1	8001-35-2Toxaphene	4.6 B 210 U
١	12674-11-2Aroclor-1016	40 U
	11104-28-2Aroclor-1221	82 U
	11141-16-5Aroclor-1232	40 U
ļ	53469-21-9Aroclor-1242	150 75
	12672-29-6Aroclor-1248	40 U
	11097-69-1Aroclor-1246	40 U
	11097-69-1Aroclor-1254 11096-82-5Aroclor-1260	40 U
	TT030-02-3ALOCTOL-T200	1
		, I I

JP412

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950017

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 5 decanted: (Y/N) N Date Received: 07/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	3,	
319-85-7 319-86-8 58-89-9	delta-BHC gamma-BHC (Lindane)	1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 1.8 U
	Aldrin Heptachlor epoxide Endosulfan I Dieldrin	1.8 U 1.8 0.041 JPBU 1.8 U 3.5 0.71 JBU 18 B
72-54-8 1031-07-8 50-29-3	Endosulfan II 4,4'-DDD Endosulfan sulfate 4,4'-DDT	5.5 3.5 11 ½ 3.5 U 7.4 ½ 18 U
53494-70-5 7421-93-4 5103-71-9	MethoxychlorEndrin ketoneEndrin aldehydealpha-Chlordanegamma-ChlordaneToxaphene	0.65 J 3.5 0.53 JB U 1.8 0.19 JP U 1.8 0.41 JPB U
12674-11-2 11104-28-2 11141-16-5 53469-21-9	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248	35 U 70 U 35 U 35 U 35 U
11097-69-1	Aroclor-1254 Aroclor-1260	35 U 35 U

CP - 2-99

OLM03.0

Contract: 68D50004 Lab Name: COMPUCHEM

JP413

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 950018

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 15 decanted: (Y/N) N

Date Received: 07/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 08/11/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane)	2.0 U 2.0 0.28 JPB 4 2.0 0.12 JP 4 2.0 0.13 JP U
76-44-8Heptachlor	2.0 U 2.0 U 2.0 JPBU 3.9 0.58 JPBU 3.9 0.82 JPBU
72-55-94,4'-DDE 72-20-8Endrin 33213-65-9Endosulfan II 72-54-84,4'-DDD 1031-07-8Endosulfan sulfate 50-29-34,4'-DDT	3.9 0.82 JPBU 0.80 J 3.9 U 3.9 JBU 3.9 U 2.1 JB
72-43-5	20 U 3.9 U 3.9 U 2.0 U 2.0 U
8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 12672-29-6Aroclor-1248	200 U 39 U 79 U 39 U 39 U 39 U
11097-69-1Aroclor-1254 11096-82-5Aroclor-1260	39 U 39 U

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950228

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Ç

270 04 6		
319-84-6	alpha-BHC	2.2 U
319-85-7	beta-BHC	2.2 2.33 JPU
319-86-8	delta-BHC	2.2 U
58-89-9	gamma-BHC (Lindane)	2.2 0.64 34
76-44-8	Hentachlor	2.2 U
309-00-2	Aldrin	2.2 U
1024-57-3	Heptachlor epoxide	
959-98-8	Endosulfan I	2.2 0.27 JEU
60-57-1	Dioldrin	
72-55-9	- DIEIGIII	42 PJ.
72-20-8	Endrin	860 EPC.
33213_6E_0	Endosulfan II	4.3 1.3 JP4
72-54 0	Endosulian II	4.3 U
72-54-8	4,4DDD	13 PU
1031-07-8	Endosulfan sulfate	400 EPC
50-29-3	4,4'-DDT	840 EPC
72-43-5 E2404 70 E	Methoxychlor	22 5.7 JPU
7421 02 4	Endrin ketone	4.3 U
7421-93-4	Endrin aldehyde	4.3 U
5103-71-9	alpha-Chlordane	2.2 U
5103-74-2	gamma-Chlordane	2.2 0.36 JPU
8001-35-2	Toxaphene	220 U
12674-11-2	Aroclor-1016	43 U
11104-28-2	Aroclor-1221	88 ប
11141-16-5	Aroclor-1232	43 U
53469-21-9	Aroclor-1242	43 U
12672-29-6	Aroclor-1248	43 U
11097-69-1	Aroclor-1254	43 U
11096-82-5	Aroclor-1260	43 U

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•	•	NP9-2-9

M9-2-99

JP415DL

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950228

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/13/99

Injection Volume: 2.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND (43/12 01 43/	·				
	The second second second second second second second second second second second second second second second se			110	TT .	
319-84-6	alpha-BHC			110		
319-85-7	beta-BHC		* *	110		
319-86-8	delta-BHC			110		
58-89-9	gamma-BHC (Lindane)	ļ. ·	• .	110		
76-44-8	Heptachlor			110		
309-00-2	Aldrin			110		
1024-57-3	Heptachlor epoxide			110		
959-98-8	Endosulfan I			30		
60-57-1		1	. •	44		
72-55-9	4,4'-DDE	1	•	2200		
72-20-8		1000		220		
33213-65-9	Endosulfan II			220.		
72-54-8	4.4'-DDD			14		U
1031-07-8	Endosulfan sulfate			610		
50-29-3	4,4'-DDT	`		1500	De	
72-43-5	Methoxychlor	1		1100		
53494-70-5	Endrin ketone			220	U .	
7421-93-4	Endrin aldehyde			220	U	
5103-71-9	alpha-Chlordane	1		110		•
5103-74-2	gamma-Chlordane			110	U	
8001-35-2	Toxaphene	-		11000	U	
	Aroclor-1016	1		2200	U	•
11104-29-2	Aroclor-1221	-	•	4400	U	
111/1-16-5	Aroclor-1232	-1		2200	U	• ;
TTTTTTTTTTTT	Aroclor-1242	-	•	2200		
12672-21-3	Aroclor-1248	-		2200		
11007 60 1	Aroclor-1248	-		2200		
		-		2200		
TT036-97-2	Aroclor-1260	- .		2230	1	
*	1.				. !	

CP 9.2-99

JP416

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950229

Sample wt/vol: Lab File ID: 30.0 (g/mL) G

% Moisture: 7 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

319-84-6----alpha-BHC 1.8 U 319-85-7-----beta-BHC D-80 JPU 319-86-8-----delta-BHC 1.8 U 58-89-9-----gamma-BHC (Lindane) 1.8 U 1.8 U 309-00-2----Aldrin 1.8 U 1.8 0.14 JPU 1024-57-3-----Heptachlor epoxide 959-98-8-----Endosulfan I 1.8 U 3.5 0.92 JPU 60-57-1-----Dieldrin 72-55-9----4,4'-DDE 28 72-20-8-----Endrin 3.5 U 33213-65-9----Endosulfan II 3.5 U 72-54-8-----4,4'-DDD 14 1031-07-8----Endosulfan sulfate 3.5 0.71 JP U 50-29-3----4,4'-DDT 3.5 2-8 JEU 18 5-3 704 72-43-5----Methoxychlor___ 53494-70-5----Endrin ketone 3.5 1-0 JP 4 7421-93-4----Endrin aldehyde 5103-71-9-----alpha-Chlordane 1.8 U 5103-74-2----gamma-Chlordane 1.8 D-42 &U 8001-35-2-----Toxaphene 180 U 12674-11-2----Aroclor-1016 35 U 72 U 11104-28-2----Aroclor-1221 11141-16-5----Aroclor-1232_ 35 U 53469-21-9-----Aroclor-1242 35 U 12672-29-6-----Aroclor-1248 35 U 11097-69-1----Aroclor-1254 35 U -11096-82-5----Aroclor-1260

JP417 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950230

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 34 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/13/99

Date Analyzed: 08/11/99 Concentrated Extract Volume: 5000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor 309-00-2Aldrin 1024-57-3Heptachlor epoxide 959-98-8Endosulfan I 60-57-1Dieldrin 72-55-94,4'-DDE 72-20-8Endosulfan II 72-54-8Endosulfan II 72-54-8	2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.2 J 2.4 U 3.0 U 3.0 U 3.0 U 3.0 U 3.0 U 3.0 U 5.0 U 5.0 U
50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 8001-35-2Toxaphene 12674-11-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 12672-29-6Aroclor-1248 11097-69-1Aroclor-1254 11096-82-5Aroclor-1260	5.0 0.62 JPU 2.6 U 2.6 U 2.6 U 2.6 U 2.6 U 2.0 U 5.0 U

CP 9-2-99

JW542

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949679

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 7

decanted: (Y/N) N

Date Received: 07/03/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/08/99

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 08/11/99

Injection Volume: 2.0(uL)

CAS NO

COMPOUND

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) Y

pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

1.8 U 1.8	CAS NO.	COMPOUND (dg/H OI dg)	
	319-85-7 319-86-8 58-89-9 76-44-8 309-00-2 1024-57-3 959-98-8 72-55-9 72-55-9 72-54-8 33213-65-9 72-54-8 50-29-3 72-43-5 5103-74-2 5103-74-2 1104-28-2 11104-28-2 11104-28-2 11104-28-2 111097-69-1	beta-BHCdelta-BHCgamma-BHC (Lindane)HeptachlorAldrinHeptachlor epoxideEndosulfan I0ieldrin4,4'-DDEEndrin4,4'-DDDEndosulfan sulfate4,4'-DDTMethoxychlorEndrin ketoneEndrin aldehydealpha-Chlordanegamma-ChlordaneToxapheneAroclor-1211Aroclor-1242Aroclor-1254	1.8 U U U U U U U U U U U U U U U U U U U

JW542DL

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949679

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 7 decanted: (Y/N) N

Date Received: 07/03/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/08/99

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 08/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/KG

319-84-6alpha-BHC	9.1	ָט	
319-85-7beta-BHC	9.1	1 - 1	ŀ
319-86-8delta-BHC	9.1		
58-89-9gamma-BHC (Lindane)	9.1 0.49	DJPU	
76-44-8Heptachlor	9.1	TT	
309-00-2Aldrin	9 1	U	ĺ
1024-57-3Heptachlor epoxide	9.1 9.1	Ϊ́Τ	ĺ
959-98-8Endosulfan I	9.1	l ti	İ
60-57-1Dieldrin		υ	
72-55-94,4'-DDE		DE	İ
72-20-8Endrin	18 0.85	DJPBU	
33213-65-9Endosulfan II	18	TT	
72-54-84,4'-DDD	210	р	
1031-07-8Endosulfan sulfate	18		
50-29-34,4'-DDT	3.7 18 3.7	NATOR	1
72-43-5Methoxychlor	91 1.6	DIPBU	
53494-70-5Endrin ketone	18	TT	· ·
7421-93-4Endrin aldehyde	18	ן ט	
5103-71-9alpha-Chlordane	9.1		
5103-74-2gamma-Chlordane	9.1 2.9	D-FPU	
8001-35-2Toxaphene	910		
12674-11-2Aroclor-1016	180	1 - 1	
11104-28-2Aroclor-1221	360	1	
11141-16-5Aroclor-1232	180		
53469-21-9Aroclor-1242	180		
12672-29-6Aroclor-1248	180		
11097-69-1Aroclor-1254	180		
11096-82-5Aroclor-1260	180	1	
	l	l	1

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JW545

Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Lab Sample ID: 949690 Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 7 decanted: (Y/N) N Date Received: 07/03/99

Date Extracted:07/08/99 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CP 9-2-99

FORM I PEST

OLM03.0

JW546

Q

Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Lab Sample ID: 949691 Matrix: (soil/water) SOIL

Lab File ID: 30.0 (g/mL) G Sample wt/vol:

% Moisture: 20 decanted: (Y/N) N Date Received: 07/03/99

Date Extracted:07/08/99 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 08/11/99 Concentrated Extract Volume: 5000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

pH: 7.2 Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND.

1		1
	319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC	4.2 10 FJ 2.1 0-19 JPU
	58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor	2.1 U 2.1 U
	309-00-2	2.1 0.10 JPU 2.1 0.094 JPU
	959-98-8Endosulfan I 60-57-1Dieldrin	2.1 U 191 عوس جد 4.1
	72-55-9	33 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	33213-65-9Endosulfan II 72-54-84,4'-DDD 1031-07-8Endosulfan sulfate	100 EP J 4.1 0.74 J2 U
	50-29-3	2 47 0.52 JPBU
	53494-70-5Endrin ketone	4.1 U 4.1 U 2.1 42 0.60 FP 4
	5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane	2.1 42 0.60 FP 4 2.1 42 1.6 JP 4
	8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221	41 U 84 U
	11141-16-5Aroclor-1232 53469-21-9Aroclor-1242	41 U 41 U
	12672-29-6Aroclor-1248 11097-69-1Aroclor-1254	41 U 40 J#
	11096-82-5Aroclor-1260	41 U

OLM03.0'

JW546DL

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949691

Sample wt/vol:

30.0 (g/mL) G Lab File ID:

% Moisture: 20

decanted: (Y/N) N

Date Received: 07/03/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/29/99

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 08/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.2

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

JW564 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Lab Sample ID: 949692 Matrix: (soil/water) SOIL:

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 7 decanted: (Y/N) N Date Received: 07/03/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/08/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG

319-84-6alpha-BHC	1.8 U
319-85-7beta-BHC	1.8 0.47 JPU
319-86-8delta-BHC	1.8 U
58-89-9gamma-BHC (Lindane)	1.8 U
76-44-8Heptachlor	1.8 U
309-00-2Aldrin	1.8 U
1024-57-3Heptachlor epoxide	1.8 U
959-98-8Endosulfan I	1.8 0.30 JEU
60-57-1Dieldrin	1.6 J₽
72-55-94,4'-DDE	52 3
72-20-8Endrin	3.5 0.16 JPBU
33213-65-9Endosulfan II	3.5 0
72-54-84,4'-DDD	29
1031-07-8Endosulfan sulfate	3.5 0.71 Ju
50-29-34,4'-DDT	3.5 1.6 JPB U
272-43-5Methoxychlor	18 1-6 JPB U
53494-70-5Endrin ketone	3.5 0.17 JP U
7421-93-4Endrin aldehyde	3.5 U
5103-71-9alpha-Chlordane	2.0
5103-71-9gamma-Chlordane	2.6 75
8001-35-2Toxaphene	180 0
12674-11-2Aroclor-1016	35 U
11104-28-2Aroclor-1016	72 0
	- 35 U
11141-16-5Aroclor-1232	35 0
53469-21-9Aroclor-1242	35 0
12672-29-6Aroclor-1248	- 35 U
11097-69-1Aroclor-1254	35 0
11096-82-5Aroclor-1260	-
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OLM03.0

JW565 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949693

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

decanted: (Y/N) N Date Received: 07/03/99 % Moisture: 20

Date Extracted:07/08/99 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 08/11/99 Concentrated Extract Volume: 5000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CONCENTRATION ONLINE (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND

319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor 309-00-2Aldrin 1024-57-3Heptachlor epoxide 959-98-8Endosulfan I 60-57-1Dieldrin 72-55-94,4'-DDE	2.	0.49 2.1 2.1 2.1	PTV BUU BUU BUU BUU BUU BUU BUU BUU BUU BU
72-20-8Endrin 33213-65-9Endosulfan II 72-54-84,4'-DDD 1031-07-8Endosulfan sulfate 50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221 11141-16-5Aroclor-1232		4.1 4.1 26 28 210 41 84 41	DU TU TU TU TU TU TU TU TU TU TU TU TU TU
11104-28-2Aroclor-1221		84	ם ט ט ט

JW565DL

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Lab Sample ID: 949693 Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Date Received: 07/03/99 % Moisture: 20 decanted: (Y/N) N

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/08/99

Date Analyzed: 08/13/99 Concentrated Extract Volume: 5000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND

	<u> </u>	
319-84-6	// 0.24 // 0.48 11 11 11 // 0.93 2 5.1 24 21 100 21 7.3 110 21 29 32 1100 210 210 210 210 34	

CP 9-99

JW570

Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949967

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 12

decanted: (Y/N) N

Date Received: 07/08/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/09/99

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 08/11/99

Injection Volume: 2.0(uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y

pH: 7.9

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: COMPOUND CAS NO.

Q. (ug/L or ug/Kg) UG/KG

39 U 319-84-6----alpha-BHC 39 U 319-85-7----beta-BHC 39 U 319-86-8-----delta-BHC 39 U 58-89-9-----gamma-BHC (Lindane) 39 U 76-44-8-----Heptachlor__ 39 U 309-00-2----Aldrin 1024-57-3-----Heptachlor epoxide_ 959-98-8-----Endosulfan I____ 39 T 39 U 75 U 60-57-1-----Dieldrin 3300 EBC J 72-55-9-----4,4'-DDE 75 U 72-20-8-----Endrin 33213-65-9----Endosulfan II 75 U 320 B 39 JPB 72-54-8-----4,4'-DDD 1031-07-8-----Endosulfan sulfate_ 4000 EBC J 50-29-3-----4,4'-DDT 390 22 JPU 72-43-5----Methoxychlor 75 U 53494-70-5----Endrin ketone 75 I U 7421-93-4----Endrin aldehyde 39 U 5103-71-9-----alpha-Chlordane_ 39 U 5103-74-2----gamma-Chlordane 3900 U 8001-35-2-----Toxaphene 750 U 12674-11-2----Aroclor-1016 1500 U 11104-28-2----Aroclor-1221 750 U 11141-16-5-----Aroclor-1232 750 Ū 53469-21-9----Aroclor-1242 750 U 12672-29-6-----Aroclor-1248 750 11097-69-1----Aroclor-1254 750 U 11096-82-5----Aroclor-1260

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949967

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 12 decanted: (Y/N) N Date Received: 07/08/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/13/99

Injection Volume: 2.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG C

319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor 309-00-2Aldrin 1024-57-3Heptachlor epoxide 959-98-8Endosulfan I 60-57-1Dieldrin 72-55-94,4'-DDE 72-20-8Endrin 33213-65-9Endosulfan II 72-54-84,4'-DDD 1031-07-8Endosulfan sulfate 50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane	190 190 190 380 4500 380 380 290	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	380	ט
33213-65-9Endosulfan II		
72-54-84,4'-DDD		
1031-07-8Endosulfan sulfate		
50-29-34,4'-DDT_		
		1 –
5103-74-2gamma-Chlordane	190 19000	
8001-35-2Toxaphene 12674-11-2Aroclor-1016	3800	1
11104-28-2Aroclor-1221	7600	1
11141-16-5Aroclor-1232	3800	1 1
53469-21-9Aroclor-1242	. 3800	
12672-29-6Aroclor-1248	3800	U
11097-69-1Aroclor-1254	3800	- 1
11096-82-5Aroclor-1260	3800	U

OP 9-2-99

FORM I PEST

OLM03.0

JW571

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949968

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 8

decanted: (Y/N) N

Date Received: 07/08/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 08/11/99

Injection Volume: 2.0(uL)

Dilution Factor: 2.0

Sulfur Cleanup: (Y/N) N

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

١			• •		
١	319-84-6alpha-BHC	•		,	U
	319-85-7beta-BHC				U
١	319-86-8delta-BHC			1	<u>U</u> ~
1	58-89-9gamma-BHC (Lindane)		•	J., 1	<u>U</u>
١	76-44-8Heptachlor	i v Cita		٠,١	<u>U</u> .
1	309-00-2Aldrin				U
1	1024-57-3Heptachlor epoxide			1	U:
	959-98-8Endosulfan I			3.7	U
	60-57-1Dieldrin			1.2	Ū
١	72-55-94,4'-DDE	,		31	₽ U
١	72-20-8Endrin			7.2	U
1	33213-65-9Endosulfan II		٠	7.2	JE
١	72-54-84,4'-DDD			0.72	. συυ. Εποπ εν ΙΙ
١	1031-07-8Endosulfan sulfate		7. 4	14	B
١	50-29-34,4'-DDT			27	TT P
-	72-43-5Methoxychlor		•	7.2	Ü
	53494-70-5Endrin ketone			7.2	Ü
١	7421-93-4Endrin aldehyde			3.7	บ็
	5103-71-9alpha-Chlordane			3.7	บ
	5103-74-2gamma-Chlordane	1		370	π
1	8001-35-2Toxaphene		1	72	Ü
	12674-11-2Aroclor-1016		•	140	TT
•	11104-28-2Aroclor-1221			72	Ü
	11141-16-5Aroclor-1232			72	lΰ
1	53469-21-9Aroclor-1242			72	1 -
	12672-29-6Aroclor-1248			72	Ü
	11097-69-1Aroclor-1254	· [72	-
-	11096-82-5Aroclor-1260	.		, 2	
		. 1			. I

JW572

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949969

Sample wt/vol:

30.0 (g/mL) G Lab File ID:

% Moisture: 14 decanted: (Y/N) N Date Received: 07/08/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor 309-00-2Aldrin 1024-57-3Heptachlor epoxide 959-98-8Endosulfan I 60-57-1Dieldrin 72-55-94,4'-DDE 72-20-8Endosulfan II 72-54-8Endosulfan II 72-54-84,4'-DDD 1031-07-8Endosulfan sulfate 50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221		Ì	
58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor 309-00-2Aldrin 1024-57-3Heptachlor epoxide 959-98-8Endosulfan I 60-57-1Dieldrin 72-55-9	~	20 20 20	U U
959-98-8Endosulfan I 60-57-1Dieldrin 72-55-94,4'-DDE 72-20-8Endrin 33213-65-9Endosulfan II 72-54-84,4'-DDD 1031-07-8Endosulfan sulfate 50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221		20 20 20	U U U
72-20-8Endrin 33213-65-9Endosulfan II 72-54-84,4'-DDD 1031-07-8Endosulfan sulfate 50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221		20 20 38 1200	u u u ebc J
50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221		38 38	U U B
5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221		20 800 200 38	
12674-11-2Aroclor-1016 11104-28-2Aroclor-1221	20	38 20 0.19 2000	
11141-16-5Aroclor-1232		380 780 380	ช บ บ
53469-21-9Aroclor-1242 12672-29-6Aroclor-1248 11097-69-1Aroclor-1254 11096-82-5Aroclor-1260		380 380 380 380	U U

JW572DL

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949969

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 14 decanted: (Y/N) N

Date Received: 07/08/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 08/13/99

Injection Volume: 2.0(uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y

pH: 7.4

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND

319-84-6					i
319-84-6	and all a purchase			99	υl
319-86-8	319-84-6alpha-BHC				11
Sa-89-9gamma-BHC (Lindane) 99 U			e ere		- 1
76-44-8	319-86-8delta-BHC				_
76-44-8	58-89-9gamma-BHC (Lindane)			- 1	
309-00-2Aldrin 1024-57-3Heptachlor epoxide 959-98-8Endosulfan I 60-57-1	76-44-8Heptachlor			1	- 1
99 U 959-98-8Endosulfan I 99 U 959-98-8Endosulfan I 190 U 972-55-9	309-00-2Aldrin			1	
959-98-8Endosulfan I 190 U 190	1024-57-3Heptachlor epoxide_				-
60-57-1	959-98-8Endosulfan I				
72-55-94,4'-DDE 72-20-8Endrin 33213-65-9Endosulfan II 72-54-84,4'-DDD 1031-07-8Endosulfan sulfate 50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5001-35-2Toxaphene 12674-11-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 11097-69-1Aroclor-1254					
72-20-8Endrin 190 U 33213-65-9Endosulfan II 190 U 72-54-84,4'-DDD 120 DJB 1031-07-8Endosulfan sulfate 17 DJFB 50-29-34,4'-DDT 990 U 72-43-5Methoxychlor 990 U 53494-70-5Endrin ketone 190 U 7421-93-4Endrin aldehyde 190 U 5103-71-9alpha-Chlordane 99 U 8001-35-2Toxaphene 9900 U 1104-28-2Aroclor-1016 1900 U 11141-16-5Aroclor-1232 1900 U 53469-21-9Aroclor-1242 1900 U 12672-29-6Aroclor-1248 1900 U 1097-69-1Aroclor-1254 1900 U		•	•		-
190 120					
72-54-84,4'-DDD 120 purp 1031-07-8Endosulfan sulfate 17 purp 50-29-34,4'-DDT 850 ppc 72-43-5Methoxychlor 990 U 53494-70-5Endrin ketone 190 U 7421-93-4Endrin aldehyde 190 U 5103-71-9alpha-Chlordane 99 U 8001-35-2Toxaphene 9900 U 120 purp 1900 U	33213-65-9Endosulfan II	Let Let Let Let Let Let Let Let Let Let			
1031-07-8Endosulfan sulfate					
50-29-34,4'-DDT 850 BBC 72-43-5Methoxychlor 990 U 53494-70-5Endrin ketone 190 U 7421-93-4Endrin aldehyde 190 U 5103-71-9alpha-Chlordane 99 U 8001-35-2Toxaphene 990 U 12674-11-2Aroclor-1016 1900 U 11104-28-2Aroclor-1221 3900 U 11141-16-5Aroclor-1242 1900 U 12672-29-6Aroclor-1248 1900 U 11097-69-1Aroclor-1254 1900 U	1031-07-8Endosulfan sulfate				
72-43-5Methoxychlor 990 U 53494-70-5Endrin ketone 190 U 7421-93-4Endrin aldehyde 190 U 5103-71-9alpha-Chlordane 99 U 8001-35-2Toxaphene 9900 U 12674-11-2Aroclor-1016 1900 U 11104-28-2Aroclor-1221 3900 U 11141-16-5Aroclor-1232 1900 U 53469-21-9Aroclor-1242 1900 U 12672-29-6Aroclor-1248 1900 U 11097-69-1Aroclor-1254 1900 U	50-29-34 4'-DDT		•	850	DBC .
53494-70-5Endrin ketone 190 7421-93-4Endrin aldehyde 190 5103-71-9alpha-Chlordane 99 5103-74-2gamma-Chlordane 99 8001-35-2Toxaphene 1900 12674-11-2Aroclor-1016 1900 11104-28-2Aroclor-1221 3900 11141-16-5Aroclor-1232 1900 53469-21-9Aroclor-1242 1900 12672-29-6Aroclor-1248 1900 11097-69-1Aroclor-1254 1900	72-43-5			990	U .
7421-93-4Endrin aldehyde 99 U 5103-71-9alpha-Chlordane 99 U 5103-74-2gamma-Chlordane 99 U 5103-74-2Toxaphene 9900 U 512674-11-2Aroclor-1016 1900 U 51104-28-2Aroclor-1221 11141-16-5Aroclor-1232 1900 U 53469-21-9Aroclor-1242 1900 U 51097-69-1Aroclor-1254	F2404 70 F Endrin ketone	· · · · · · · · · · · · · · · · · · ·		190	U
5103-71-9alpha-Chlordane 99 0 5103-74-2gamma-Chlordane 99 0 8001-35-2Toxaphene 9900 0 12674-11-2Aroclor-1016 1900 0 11104-28-2Aroclor-1221 3900 0 11141-16-5Aroclor-1232 1900 0 53469-21-9Aroclor-1242 1900 0 12672-29-6Aroclor-1248 1900 0 11097-69-1Aroclor-1254 1900 0	7401 00 4 Endrin aldehyde			190	U
5103-71-9	7421-93-4Ellurin aluchyuc			99	υ
8001-35-2Toxaphene 9900 U 12674-11-2Aroclor-1016 1900 U 11104-28-2Aroclor-1221 3900 U 11141-16-5Aroclor-1232 1900 U 53469-21-9Aroclor-1242 1900 U 12672-29-6Aroclor-1248 1900 U 11097-69-1Aroclor-1254 1900 U	5103-71-9alpha-chiordane				
12674-11-2Aroclor-1016 11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 12672-29-6Aroclor-1248 11097-69-1Aroclor-1254	5103-74-2gamma-critordane				Ū
11104-28-2Aroclor-1016 11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 12672-29-6Aroclor-1248 11097-69-1Aroclor-1254	8001-35-2Toxaphene				1
11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 12672-29-6Aroclor-1248 11097-69-1Aroclor-1254	126/4-11-2Aroclor-1016				-
11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 12672-29-6Aroclor-1248 11097-69-1Aroclor-1254					1.
12672-29-6Aroclor-1248 11097-69-1Aroclor-1254 1900 U					i
11097-69-1Aroclor-1254			•	_	1 -
11097-69-1ALOCIOI-1254					1
11096-82-5Aroclor-1260					1 -
	11096-82-5Aroclor-1260			1900	10
					·

JW573

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949970

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 8

decanted: (Y/N) N Date Received: 07/08/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	1	····		
319-84-6alpha-BHC			1.8	υ
319-85-7beta-BHC		1.8	28	IDBA
319-86-8delta-BHC		, _	1.8	ַ ט
58-89-9gamma-BHC (Lindane)		1.8	0-16	JPU
76-44-8Heptachlor	.		1.8	υ .
309-00-2Aldrin		1.8	0-49	JPBU
1024-57-3Heptachlor epoxide	1		1.8	ן ט
959-98-8Endosulfan I			1.8	ן ט
60-57-1Dieldrin	1		3.6	ט
72-55-94,4'-DDE		•	32	l±i l
72-20-8Endrin	1	3.6		J₽U
33213-65-9Endosulfan II		3,0	3.6	ττ
		,	2.5	J
72-54-84,4'-DDD	•	2.1	0.82	
1031-07-8Endosulfan sulfate	·Ì	, J.0	19	TŔ
50-29-34,4'-DDT	•		18	16
72-43-5Methoxychlor	•		3.6	Ü
53494-70-5Endrin ketone	•		3.6	Ū
7421-93-4Endrin aldehyde	• [* •	1.8	Ü
5103-71-9alpha-Chlordane	-		1.8	ι υ
5103-74-2gamma-Chlordane	-		180	1 -
8001-35-2Toxaphene	-		36	
12674-11-2Aroclor-1016	-	•	73	Ü .
11104-28-2Aroclor-1221	-			1 -
11141-16-5Aroclor-1232	-		36	
53469-21-9Aroclor-1242	-			U.
12672-29-6Aroclor-1248	-		36	
11097-69-1Aroclor-1254	_ •		36	1
11096-82-5Aroclor-1260	-1		. 36	Ŭ.
	_			.
				^

CP9-2-97

JW574

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW542

Matrix: (soil/water) SOIL

Lab Sample ID: 949971

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

Date Received: 07/08/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/09/99

Concentrated Extract Volume:

5000 (uL)

Date Analyzed: 08/11/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) Y

11096-82-5----Aroclor-1260

% Moisture: 7 decanted: (Y/N) N

pH: 7.4

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND 319-84-6----alpha-BHC 319-85-7-----beta-BHC 319-86-8-----delta-BHC 58-89-9-----gamma-BHC (Lindane)_ 1.8 U 76-44-8-----Heptachlor__ 1.8 U 309-00-2----Aldrin 1.8 2-20 JBU 1024-57-3-----Heptachlor epoxide 959-98-8-----Endosulfan I 3.5 U 60-57-1-----Dieldrin 72-55-9-----4,4'-DDE 72-20-8-----Endrin 33213-65-9----Endosulfan II 3.5 0.16 JBU 72-54-8-----4,4'-DDD 1031-07-8-----Endosulfan sulfate 19 8 50-29-3----4,4'-DDT 18 U 72-43-5-----Methoxychlor 3.5 U 53494-70-5-----Endrin ketone 3.5 U 7421-93-4-----Endrin aldehyde_ 1.8 U 5103-71-9----alpha-Chlordane 1.8 2-16 JPBU 5103-74-2----gamma-Chlordane 180 U 8001-35-2----Toxaphene 35 U 12674-11-2----Aroclor-1016 72 U 11104-28-2----Aroclor-1221 35 U 11141-16-5-----Aroclor-1232 35 U 53469-21-9----Aroclor-1242 35 U 12672-29-6-----Aroclor-1248 35 U 11097-69-1----Aroclor-1254

JW575

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 949972

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 07/08/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CPq,2-99

Lab Name: COMPUCHEM

JW578
Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950019

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 7 decanted: (Y/N) N Date Received: 07/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/09/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG C

	alpha-BHC	_		1.8	
319-85-7		_			DB (1
	delta-BHC			1.8	U
58-89-9	gamma-BHC (Lindane)			1.8	U
76-44-8	Heptachlor			1.8	U
309-00-2	Aldrin		/. 2		JPBU
	Heptachlor epoxide		1.8	0-018	JPBU
959-98-8	Endosulfan I	7		1.8	U
60-57-1		7 '	•	2.7	J₽₿
72-55-9	4,4'-DDE	_		17	#B *U
72-20-8		- .		3.5	
	Endosulfan II	_		3.5	U
72-54-8	4,4'-DDD	- -		37	1 28
	Endosulfan sulfate		3.5	0.77	JPBU
50-29-3		-	3.5	- 1-9	JPBU
	Methoxychlor	- -	18		JP U
53494-70-5	Endrin ketone	- .	3:5	- 0.29	
	Endrin aldehyde	-	7 4	0.25	JPBU
	alpha-Chlordane	-	, ,	5.5	B 2
5103-74-2	gamma-Chlordane	-			PBJ
	Toxaphene	-	•	180	
	Aroclor-1016	-1		35	U
	Aroclor-1221	-		72	U
	Aroclor-1232	-		35	U
	Aroclor-1242	-		35	
	Aroclor-1248	-		35	
	Aroclor-1254	-		35	
	Aroclor-1260	-	•	35	
		-			
					1

CP 4.2.99

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950020

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 13 decanted: (Y/N) N Date Received: 07/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

210 04 C -1-h- DIG	2.0 0-81 JPBU
319-84-6alpha-BHC	
319-85-7beta-BHC	4.1 PBJ
319-86-8delta-BHC	2.0 U
58-89-9gamma-BHC (Lindane)	2.0 0.58 IPU
76-44-8Heptachlor	2.0 U
309-00-2Aldrin	20 1-1 JPBU
1024-57-3Heptachlor epoxide	2.0 D.13 JPBU
959-98-8Endosulfan I	2.0 0
60-57-1Dieldrin	1.1 JPB
72-55-94,4'-DDE	17 🗷
72-20-8Endrin	3.8 Ü
33213-65-9Endosulfan II	3.8 U
72-54-84,4'-DDD	31 🕏
1031-07-8Endosulfan sulfate	3.8 0.78 JPBU
50-29-34,4'-DDT	2.1 J₽₽
72-43-5Methoxychlor	20 U
53494-70-5Endrin ketone	3.8 0.26 JPU
7421-93-4Endrin aldehyde	3.8 U
5103-71-9alpha-Chlordane	2.0 1.6 JPU
5103-74-2gamma-Chlordane	2.6
8001-35-2Toxaphene	200 0
12674-11-2Aroclor-1016	38 0
11104-28-2Aroclor-1221	77 U
11141-16-5Aroclor-1232	38 0
53469-21-9Aroclor-1242	38 U
12672-29-6Aroclor-1248	38 0
11097-69-1Aroclor-1254	38 0
	38 0
11096-82-5Aroclor-1260	38 0

CP 0-2-95

FORM I PEST

OLM03.0

JW580 Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW542

Matrix: (soil/water) SOIL Lab Sample ID: 950021

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 6 decanted: (Y/N) N Date Received: 07/09/99

Date Extracted:07/09/99 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

319-84-6----alpha-BHC 1.8 U 1.8 0.65 JPBU 319-85-7-----beta-BHC 319-86-8-----delta-BHC 1.80.089 JP 4 58-89-9----gamma-BHC (Lindane) 76-44-8------Heptachlor____ 1.8 U 309-00-2----Aldrin 1.8 U 1024-57-3-----Heptachlor epoxide 1.8 U 959-98-8-----Endosulfan I 1.8 U 3.5 48 0.30 JPB 4 60-57-1-----Dieldrin 72-55-9----4,4'-DDE 2.6 JPB 72-20-8-----Endrin 0.95 J 33213-65-9----Endosulfan II 3.5 U 3.5 1.1 JBU 72-54-8-----4,4'-DDD 1031-07-8-----Endosulfan sulfate 3.5 0.30 JPBU 3.0 JB 50-29-3----4,4'-DDT 72-43-5----Methoxychlor 18 U 53494-70-5----Endrin ketone 3.5 0.31 JP4 7421-93-4----Endrin aldehyde 3,5 0-46 JPB U 5103-71-9----alpha-Chlordane 1.8 U 1.8 0.18 JB U 5103-74-2----gamma-Chlordane 8001-35-2----Toxaphene 12674-11-2----Aroclor-1016 35 U 71 U 35 U 35 U 11104-28-2----Aroclor-1221 11141-16-5----Aroclor-1232 53469-21-9----Aroclor-1242 12672-29-6----Aroclor-1248 35 U 11097-69-1----Aroclor-1254 35 U 35 U 11096-82-5----Aroclor-1260

9-2-99

1500 First Interstate Center, 999 Third Avenue MORANDUM Seattle, Washington 98104 Tel: (206) 624-9537, Fax: (206) 621-9832

DATE:

September 19, 1999

TO:

Mark Woodke, Project Manager, E & E, Seattle, WA

FROM:

Alasdair Turner, START-Chemist, E & E, Seattle, WA

SUBJ:

Inorganic Data Quality Assurance Summary Review, Wenatchee

Brownfields Site, Wenatchee, Washington.

REF:

TDD: 98-11-0007

PAN: CK0701SIDM

The data quality assurance summary review of 20 water samples collected from the Wenatchee Brownfields Site in Wenatchee, Washington has been completed. Analysis for VOCs, SVOC, and Pest/PCBs (EPA CLP SOW for organic analysis OLM03.2) has been completed, and was performed by COMPUCHEM, of Cary, NC.

No discrepancies were noted.

ENVIRONMENTAL SERVICES ASSISTANCE TEAMS - WESTERN ZONE

LOCKHEED MARTIN
TECHNOLOGY SERVICES GROUP

ESAT Region 10 Lockheed Martin 7411 Beach Drive East Port Orchard, WA 98366 Phone (360) 871-8723

DELIVERABLE NARRATIVE

DATE:

August 30, 1999

To:

Ginna Grepo-Grove, WAM, USEPA, Region 10

THROUGH:

Dave Dobb, Team Manager, ESAT Region 10

FROM:

Chris Pace, Task Lead, ESAT Region 10

SUBJECT:

Data validation report for the volatile organic (VOA), semi-volatile organic (SVOA) and

pesticide/polychlorinated biphenyl (Pest/PCB) analysis of samples from the Wenatchee Brownfields

Site. Case: 27165 SDG: JW513

DOC:

ESW10-3-1377

PWO:

ESW72019

TDF:

3638

WA:

10-99-3-10

CC:

Gerald Dodo, RPO, USEPA, Region 10

Project File

The quality assurance (QA) review of 20 water samples collected from the above referenced site has been completed. These samples were analyzed for VOA (18), SVOA (11) and Pest/PCB (11) in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (OLM03.2) by COMPUCHEM of Cary, NC.

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control Specifications outlined in the USEPA CLP SOW for Organic Analysis (OLM03.2), the USEPA CLP National Functional Guidelines for Organic Data Review (2/94) and the Region 10 Guidelines for CLP Data Review.

The conclusions presented herein are based on the information provided for the review.

Holding Time

All samples were preserved with ice and VOA samples (except JW522) were acidified to a pH of < 2 prior to shipment. All of the samples met the method and technical (40 CFR 136) required holding times for all analyses with the following exceptions:

SVOA samples JP430 (17 days) and JP431RE (13 days) exceeded the extraction holding time criteria of 7 days. Sample data were qualified as estimated, "J/UJ". Sample JP431RE was further qualified on the basis of low internal standard area.

VOA sample JW522 was received at a pH of 6 and was extracted 13 days from the sample collection date. Aromatic target analytes were qualified as estimated, "J/UJ".

The Holding Times Summary listing the pertinent collection, extraction, and analysis dates is attached at the end of this validation report.

Case No.: 27165 SDG: JW513 ESW10-3-1377 Page 2 of 7

Instrument Performance - Acceptable

All of the GC and GC/MS systems met the SOW specified technical acceptance criteria prior to sample analyses, i.e., GC/MS performance checks, GC performance checks, retention times, response factors, and calibrations. The systems remained stable throughout the course of analyses. Instrument blanks were all clean and there were no indications of carry-over.

Initial Calibrations

Three VOA, five SVOA and one Pest/PCB initial calibrations were performed. The initial calibrations met the SOW technical acceptance criteria with the following exceptions:

SVOA Initial Calibration on 7/26/99, instrument 66 - the %RSD for 3,3'-dichlorobenzidine was 45.5. The
lowest calibration level was non-linear. Associated samples were qualified as estimated, "J/UJ", in the nonlinear portion of the calibration curve.

Continuing Calibration Verification (CCVs) Standards

All of the CCVs met the criteria for frequency of analysis, the minimum response factor, the retention time and the percent differences (%Ds) criteria with the following exceptions:

 The %Ds for the following VOA compounds exceeded the QC limits and the associated results were qualified accordingly:

Date /Time of Analysis	Inst. i.d.	Compound	%D	Qualifier Detect/Non-detect
7/18/99 (08:22)	54	асетоле	29.5	J/none

The %Ds for the following SVOA compounds exceeded the QC limits and the associated results were qualified accordingly:

Date /Time of Analysis	Inst. i.d.	Compound	%D	Qualifier Detect/Non-detect
7/16/99 (11:39)	66	2,2'-oxybis(1-chloropropane) hexachlorobutadiene 4-bromophenyl-phenylether hexachlorobenzene pentachlorophenol terphenyl-d14 (surr.) 2,4,6-tribomophenol (surr.)	-30.7 27.4 28.2 34.7 -30.9 28.0 43.8	J/UJ J/none J/none J/UJ none none
7/20/99 (09:30)	66	2,4-dinitrophenol	-25.2	none
7/27/99 (09:30)	66	2,2'-oxybis(1-chloropropane) carbazole 3,3'-dichlorobenzidine di-n-octylphthalate	33.8 32.8 -25.2 -25.3	J/none J/none none none
7/29/99 (21:51)	70	4-chloroaniline	47.0	J/none

Compound Quantitation and Detection Limits

All of the samples were analyzed at the contract required quantitation limits (CRQLs) with the following exceptions:

VOA sample JW527 was analyzed at a 10X dilution due to high levels of methylene chloride.

Target compounds that were detected at concentrations less than the CRQLs were qualified as estimated, "J". Detected compounds at concentrations over the calibration range were qualified as estimated, "J". Data users should consider these estimated compounds as the minimum amount present in the samples. It is also recommended that for these compounds, data users should utilize the concentrations reported from the dilution runs. All of the reported results were adjusted for sample amounts analyzed.

Blanks

Acetone was detected below the CRQL in the VOA blanks VBLKCU and VBLKSA. Acetone detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Methylene chloride was detected below the CRQL in the VOA blank VHBLKE2. Methylene chloride detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

4-Methyl-2-pentanone was detected below the CRQL in the VOA blanks VBLKCU, VBLKSA and VBLKBF. 4-Methyl-2-pentanone detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

2-Hexanone was detected below the CRQL in the VOA blanks VBLKRG, VBLKCU, VBLKSA and VBLKBF. 2-Hexanone detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Phenol was detected below the CRQL in the SVOA blank SBLKQR. Phenol detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

4,4'-DDD was detected below the CRQL in the Pest/PCB blank PBLKPE. 4,4'-DDD detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

4,4'-DDE, endrin, 4,4'-DDD and 4,4'-DDT were detected below the CRQL in the Pest/PCB blank PBLKMK. 4,4'-DDE, endrin, 4,4'-DDD and 4,4'-DDT detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

Analytical Sequence - Acceptable

All of the standards, blanks, samples, and QC samples were analyzed in accordance with the SOW specified analytical sequence.

System Monitoring Compounds (SMC)/Surrogate Spikes

All of the VOA SMC recoveries met the applicable QC criteria with the following exception:

JW522MS 1,2-dichloroethane-d4 116%. None of the data were qualified on this basis.

Case No.: 27165 SDG: JW513 ESW10-3-1377 Page 4 of 7

All of the SVOA surrogates recoveries met the applicable QC criteria with the following exceptions:

JP431 2-Fluorobiphenyl 131%

terphenyl-d14 24%

phenol-d5 3%.

The 2-fluorobiphenyl recovery was high due to low internal standard area and therefore, no qualifiers were applied to the base/neutral analytes. Due to the extremely low phenol-d5 surrogate recovery, the detected acid fraction analytes were qualified as estimated, "J", and the non-detected acid fraction analytes were qualified "R". Sample JP431 was further qualified on the basis of low internal standard area.

JP431RE

2-Fluorobiphenyl 175%.

The 2-fluorobiphenyl recovery was high due to low internal standard area. None of the data were qualified on this basis.

JW581 Terphenyl-d14 22%. None of the data were qualified on this basis.

All of the Pest/PCB surrogate spike recoveries met the applicable QC criteria (30-150%) with the exception of the following:

JP430	TCX2 171%	DCB1 18%
JP431	DCB1 20%	
JW522	TCX1 4%	TCX2 0%
JW522MSD	TCX1 27%	TCX2 719%
JW527	TCX1 2%	TCX2 392%
JW576	TCX2 161%	DCB1 22%

Samples JW522 and JW527 were affected by extreme chromatographic interference. See compound identification for qualifications. Samples JP430, JP431 and JW576 were not qualified on the basis surrogate spike recovery.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

VOA sample JW522 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses with the following exceptions:

JW522MS 1,1-dichloroethene 57% JW522MSD 1,1-dichloroethene 54%

SVOA sample JW522 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses with the following exceptions:

The RPDs between JW522MS and JW522MSD were 97% for 4-chloro-3-methylphenol, 85% for 4-nitrophenol, 66% for pentachlorophenol and 37% for pyrene.

Pest/PCB sample JW522 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses with the following exceptions:

JW522MS gamma-BHC 31%, heptachlor 17% aldrin 37% JW522MSD gamma-BHC 11%, heptachlor 22% aldrin 5%

The RPDs between JW522MS and JW522MSD were 95% for gamma-BHC, 26% for heptachlor, 152% for aldrin and 48% for endrin.

No data qualification was applied based on MS/MSD analysis.

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Internal Standards

The acceptance criteria for internal standards (IS) are ± 30 seconds for retention time (RT) shifts and -50% to +100% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the GC/MS analyses met the IS area and retention time shift criteria with following exceptions:

SVOA JP431

perylene-d12 -85%

JP431RE

perylene-d12 -97%

Due to the extremely low internal standard area the associated detected analytes were qualified as estimated, "J", and the associated non-detected analytes were qualified "R".

Compound Identification

All of the compounds detected in the GC/MS analyses were within the retention time windows, met the USEPA spectral matching criteria and were judged to be acceptable.

Single component pesticides were qualified as follows: where %Ds (between two column concentrations) > 30% but \leq 60% - detected results were qualified as estimated, "J"; %Ds > 60% with concentrations > CRQL - results were qualified as tentatively identified at the estimated concentration, "JN"; %Ds > 60% with concentrations < CRQL - results were qualified as non-detects, "U"; %Ds > 400% - results were qualified as non-detects with raised quantitation limit if > CRQL. In cases where %Ds < 60% with concentrations < CRQL and chromatographic interferences, the results were qualified as non-detects, "U". In cases where %Ds < 400% with concentrations > CRQL and chromatographic interferences, the results were qualified as tentatively identified at the estimated concentration, "JN".

Due to extreme chromatographic interference in the analysis of samples JW522 and JW527, the following single component and aroclor results were qualified "R":

alpha-BHC, beta-BHC, delta-BHC, gamma-BHC, heptachlor, aldrin, heptachlor epoxide, endosulfan-I, aroclor-1016, aroclor-1221, aroclor-1232, aroclor-1242 and aroclor-1248.

Tentatively Identified Compounds

Peaks that were detected in the samples at areas >10% of the internal standards and were not part of the target compound lists were identified as tentatively identified compounds (TICs). TICs that were both found in the sample and in the associated method blank(s) were qualified as unusable, "R." Peaks that were identified as common laboratory contaminants, solvent preservatives, column bleed or aldol condensation products were qualified as unusable, "R". The rest of the peaks identified as TICs were qualified "NJ", tentatively identified at an estimated concentration.

Laboratory Contact

The laboratory was contacted by Region 10 concerning the following items:

FORM IV VOA is missing for VBLKBF analyzed on 7/10 at 11:10.

Hard copies of all resubmissions will be sent to Region 10.

Overall Assessment

All of the samples were analyzed in accordance with the SOW specifications. The data, as qualified, are acceptable and can be used for all purposes.

Case No.: 27165 SDG: JW513 ESW10-3-1377 Page 6 of 7

Data Qualifiers

U -	The analyte was not	باد حم جم المصمحات	41
_	The analyte was not	detected at or above	the reported result.

- The analyte was positively identified. The associated numerical result is an estimate.
- R The data are unusable for all purposes.
- N There is evidence the analyte is present in this sample.
- JN There is evidence that the analyte is present. The associated numerical result is an estimate.
- UJ The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.

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Holding Time Summary - Case 27165

SDG: JW513

Sample Number	Collection Date	VTSR	VOA Analysis	SVOA Extraction	SVOA Analysis	Pest/PCB Extraction	Pest/PCB Analysis
JР414	7/8/99	7/9/99	7/18/99	NA	NA	NA	NA
JP423	7/9/99	7/10/99	7/19/99	· NA	NA	NA	NA
JP424	7/9/99	7/14/99	7/21/99	NA	NA	NA	NA
JP425	7/9/99	7/14/99	NA	NA	NA	7/16/99	8/9/99
JP426	7/9/99	7/14/99	NA	7/15/99	7/19/99	NA	NA
JP427	7/9/99	7/14/99	7/21/99	7/15/99	7/20/99	7/16/99	8/9/99
JP430	7/9/99	· 7/14/99	7/21/99	7/26/99*	7/30/99	7/16/99	8/9/99
	7/9/99	7/14/99	7/21/99	7/15/99	7/20/99	7/16/99	8/9/99
JW513	6/29/99	7/2/99	7/10/99	NA	NA	NA	NA .
JW514	6/29/99	7/2/99	7/10/99	NA	NA	NA	NA
JW522	6/29/99	- 7/2/99	7/12/99	7/6/99	7/18/99	7/6/99	8/9/99
JW527	6/30/99	7/3/99	7/13/99	7/6/99	7/18/99	7/6/99	8/9/99
JW530	6/30/99	7/2/99	7/12/99	7/6/99	7/16/99	7/6/99	8/9/99
JW536	6/30/99	7/3/99	7/13/99	NA	NA	NA	NA
JW537	6/30/99	7/3/99	7/13/99	NA	NA	NA	NA
JW568	7/2/99	7/3/99	7/13/99	7/6/99	7/16/99	7/6/99	8/9/99
JW569	7/2/99	7/3/99	7/13/99	7/6/99	7/18/99	7/6/99	8/9/99
JW576	7/7/99	7/9/99	7/18/99	7/12/99	7/18/99	7/12/99	8/8/99
JW577	7/7/99	7/8/99	7/18/99	NA	NA	NA	NA
JW581	7/7/99	7/9/99	7/18/99	7/12/99	7/18/99	7/12/99	8/8/99
JW531RE	7/9/99	7/14/99	NA	7/22/99*	. 7/27/99	NA	NA

VTSR - Verified time of sample receipt in the laboratory

NA - Not available

^{* -} Outside of holding time

JP414 Contract: 68D50004

Lab Name: COMPUCHEM Contract: 68D5

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950022

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN050022A54

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: not dec. Date Analyzed: 07/18/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO COMPOUND (ug/L or ug/Kg) ug/L (

74-87-3	Chloromethane		10	υ	
74-83-9	Bromomethane	•	10	U.	-
75-01-4	Vinyl Chloride	*	10	U	
75-00-3	Chloroethane		10		.
75-09-2	Methylene Chloride		10 A	\$U	
67-64-1	Acetone		10	ប	١
75-15-0	Carbon Disulfide		10		-
75-35-4	1,1-Dichloroethene		10		
75-`34-3	1,1-Dichloroethane	1	10	Ū	١
67-66-3	Chloroform		10		١
107-06-2	1,2-Dichloroethane		10	4	
78-93-3	2-Butanone		10		
71-55-6	1,1,1-Trichloroethane	_1	10		
56-23-5	Carbon Tetrachloride		10	1 '	
	Bromodichloromethane	_	10		
78-87-5	1,2-Dichloropropane	_[10		
10061-01-5-	cis-1,3-Dichloropropene	_	10		
79-01-6	Trichloroethene	_ ·	10		
	Dibromochloromethane	_ .	10		
79-00-5	1,1,2-Trichloroethane	_	. 10		
71-43-2	Benzene	_	10		
10061-02-6-	trans-1,3-Dichloropropene	_	10		
75-25-2	Bromoform	_		U	
108-10-1	4-Methyl-2-Pentanone	_1		U	
591-78-6	2-Hexanone	_ `		U	
127-18-4	Tetrachloroethene	_		U	
79-34-5	1,1,2,2-Tetrachloroethane	_		U	
	Toluene	_ ``		U	
	Chlorobenzene	_ -		U	
	Ethylbenzene	_ .		U	
	Styrene	_ '		U	
1330-20-7	Xylene (Total)	_		U	
540-59-0	1,2-Dichloroethene (total)_	[10) U	

FORM I VOA

JP4	14

Lab	Name:	COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950022

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn050022a54

Level: (low/med)

Date Received: 07/09/99

% Moisture: not dec.

Date Analyzed: 07/18/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ___

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 1

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	. Q
1 211 00 7	DEDELLIODOTO TRITTY AMTNE	10.12	7	NJ-R
2. 311 05 7	PERFLUOROTRIBUTILAMINE Lab Contamination	10.12		
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C8-26-99

JP423

Lab Name: COMPUCHEM Contract: 68D50004

Case No.: 27165

SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950247

Sample wt/vol:

Lab Code: COMPU

5.0 (g/mL) mL

Lab File ID: CR050247A54

Level:

(low/med)

LOW

Date Received: 07/10/99

% Moisture: not dec.

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Date Analyzed: 07/19/99

Soil Extract Volume: ____(uL)

CAS NO.

COMPOUND

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	•		
74-87-3	Chloromethane	¥° 1.	10 U
	Bromomethane		10 0
75-01-4	Vinyl Chloride	<u></u>	10 0
75-00-3	Chloroethane		10 0
75-09-2	Methylene Chloride		25
67-64-1		·	10 U
	Carbon Disulfide	•	10 U
75-35-4	1,1-Dichloroethene_	·	10 U
75-34-3	1,1-Dichloroethane		10 U
	Chloroform		10 U
	1,2-Dichloroethane		10 U
	2-Butanone		10 U
71-55-6	1,1,1-Trichloroethane		10 U
	Carbon Tetrachloride		10 U
75-27-4	Bromodichloromethane		10 U
78-87-5	1,2-Dichloropropane		10 U
10061-01-5	cis-1,3-Dichloropropene		10 U
	Trichloroethene		10 U
124-48-1	Dibromochloromethane		10 U
79-00-5	1,1,2-Trichloroethane		10 U
71-43-2	Benzene		10 U
10061-02-6	trans-1,3-Dichloropropene		10 U
75-25-2	Bromoform		10 U
108-10-1	4-Methyl-2-Pentanone	• .	10 U
591-78-6	2-Hexanone		10 U
	Tetrachloroethene		10 U
79-34-5	1,1,2,2-Tetrachloroethane		10 U
108-88-3	Toluene		10 U
108-90-7	Chlorobenzene		10 U
100-41-4	Ethylbenzene		10 U
100-42-5	Styrene		10 U
1330-20-7	Xylene (Total)	•	10 U
540-50-0	1,2-Dichloroethene (total)	1	10 U

CP8-26-99 OLM03.0

			JP423
Lab Name:	COMPUCHEM	Contract: 68D50004	

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950247

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr050247a54

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: not dec. ____ Date Analyzed: 07/19/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Number TICs found: 0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

AS NUMBER	COMPOUND NAME RT	EST. CONC.	Q
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UP 8.26-99

Dilution Factor: 1.0

VOLATILE ORGANICS ANALYSIS DATA SHEET

JP424 Contract: 68D50004 Lab Name: COMPUCHEM SDG No.: JW513 Lab Code: COMPU Case No.: 27165 SAS No.: Lab Sample ID: 950546 Matrix: (soil/water) WATER Lab File ID: CN050546A54 5.0 (g/mL) mL Sample wt/vol: Date Received: 07/14/99 Level: (low/med) LOW Date Analyzed: 07/21/99 % Moisture: not dec.

GC Column: EQUITY624 ID: 0.53 (mm)

Soil Extract Volume:____(uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

	Chloromethane	10	
	Bromomethane	10	
	Vinyl Chloride	10	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	27	
57-64-1	Acetone	10	-
	Carbon Disulfide	10	1 -
75-35-4	1,1-Dichloroethene	10	1 .
75-34-3	1,1-Dichloroethane	10	-
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	ĮŪ
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	ע
78-87-5	1,2-Dichloropropane	10	U
	cis-1,3-Dichloropropene	10	U
	Trichloroethene	10	U
	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2		10	U
	trans-1,3-Dichloropropene	10	U
	Bromoform	10	U
	4-Methyl-2-Pentanone	10	U .
	2-Hexanone	10	U
	Tetrachloroethene	10	ַּט
	1,1,2,2-Tetrachloroethane	10	יטו
	Toluene	. I	טו
	Chlorobenzene	_ 1	שו
	Ethylbenzene	• (บ
	Styrene	10	טוט
	Xylene (Total)		Ü .
	1,2-Dichloroethene (total)	• i	ט ט

FORM I VOA

JP424

Lab Name: COMPUC	
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Contract: 68D50004

Lab Code: COMPU Case No.: 27165

LOW

SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950546

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn050546a54

Level: (low/med)

Date Received: 07/14/99

% Moisture: not dec.

Date Analyzed: 07/21/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

Soil Aliquot Volume: _____

(uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
CAS NUMBER 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	COMPOUND NAME	RT	EST. CONC.	
17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.				

cf 8-26-99

JP427

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950549

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: CN050549A54

Level: (low/med)

LOW

Date Received: 07/14/99

% Moisture: not dec. _____

Date Analyzed: 07/21/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) ug/L

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	£. *			1
74-87-3Chloromethane		10	Ŭ	-
74-83-9Bromomethane		10		1
75-01-4Vinyl Chloride	••	1	Ŭ	-
75-00-3Chloroethane		10		
75-09-2Methylene Chloride			# U	
67-64-1Acetone		10	U	
75-15-0Carbon Disulfide		10	Ų	-
75-35-41,1-Dichloroethene		10	U.	1
75-34-31,1-Dichloroethane	•	10	U,	
67-66-3Chloroform		10	Ū	1
107-06-21,2-Dichloroethane		10	Ū	
78-93-32-Butanone		10	U	1
71-55-61,1,1-Trichloroethane		10	U	1
56-23-5Carbon Tetrachloride		10	Ū	1
75-27-4Bromodichloromethane		10	υ .	
78-87-51,2-Dichloropropane		10	Ū .	-1
10061-01-5cis-1,3-Dichloropropene		10	_	
79-01-6Trichloroethene		10		
124-48-1Dibromochloromethane		10		-
79-00-51,1,2-Trichloroethane		10	-	
71-43-2Benzene		10	1	
10061-02-6trans-1,3-Dichloropropene	•	10	1	
75-25-2Bromoform		10		
75-25-2BIOIIIOI OI III		10		
108-10-14-Methyl-2-Pentanone		10		
591-78-62-Hexanone		10		- '
127-18-4Tetrachloroethene		10		
79-34-51,1,2,2-Tetrachloroethane			1	
108-88-3Toluene		10	1 -	- 1
108-90-7Chlorobenzene	*		U	- 1
100-41-4Ethylbenzene		_	U	.]
100-42-5Styrene			ש	
1330-20-7Xylene (Total)		10	1 -	
540-59-01,2-Dichloroethene (total)		10	U	
			.	

· JP427	•	-

Lab Name: COMPUCHEM		Contract: 68D5	0004		
Lab Code: COMPU	Case No.: 27165	SAS No.:	SDG I	No.: JW513	
Matrix: (soil/water)	WATER	Lab S	Sample ID:	950549	•
Sample wt/vol:	5.0 (g/mL) mL	Lab I	File ID:	cn050549a54	
Level: (low/med)	LOW	Date	Received:	07/14/99	•
% Moisture: not dec.	<u> </u>	Date	Analyzed:	07/21/99	
CC Column FOUTTV624	TD 0 53 (mm)	Dilut	ion Facto	r: 1.0	·, ·

Soil Extract Volume: ____(uL)

Number TICs found: 0

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND	NAME	RT	EST. CONC.	Q
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Cl 8-26-99

JP430

Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Lab Sample ID: 950550 Matrix: (soil/water) WATER Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN050550A54 Level: (low/med) Date Received: 07/14/99 LOW % Moisture: not dec. Date Analyzed: 07/21/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: Soil Extract Volume: (uL) (uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

	1	
74-87-3Chloromethane		10 ט
74-83-9Bromomethane		10 U
75-01-4Vinyl Chloride		10 U
75-00-3Chloroethane		10 ס
75-09-2Methylene Chloride	1	10 U
67-64-1Acetone		6 J
75-15-0Carbon Disulfide		10 U
75-35-41,1-Dichloroethene	1	10 U
75-34-31,1-Dichloroethane		10 U
67-66-3Chloroform		10 ט
107-06-21, 2-Dichloroethane	1	10 U
78-93-32-Butanone		10 U
71-55-61,1,1-Trichloroethane	'	10 U
56-23-5Carbon Tetrachloride	1	10 U
75-27-4Bromodichloromethane		10 U
78-87-51, 2-Dichloropropane	-1	10 U
10061-01-5cis-1,3-Dichloropropene	" -	10 U
79-01-6Trichloroethene	1	10 U
124-48-1Dibromochloromethane	•	10 U
79-00-51,1,2-Trichloroethane	·	10 U
71-43-2Benzene	•	10 U
10061-02-6trans-1,3-Dichloropropene	-	10 U
75-25-2Bromoform	7	10 U
108-10-14-Methyl-2-Pentanone		10 U
591-78-62-Hexanone		10 U
127-18-4Tetrachloroethene	-	10 U
79-34-51,1,2,2-Tetrachloroethane	-	10 U
108-88-3Toluene	- 1	10 U
108-90-7Chlorobenzene	- 1	10 0
100-41-4Ethylbenzene	(10 0
100-42-5Styrene	i	10 0
1330-20-7Xylene (Total)	- !	10 0
540-59-01, 2-Dichloroethene (total)		10 0
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OLM03.0

FORM I VOA

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	JP430	
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Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950550

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cn050550a54

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: not dec.

Dilution Factor: 1.0

Date Analyzed: 07/21/99

GC Column: EQUITY624 ID: 0.53 (mm)

Soil Aliquot Volume:

(uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	. Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

JP431 Contract: 68D50004 Lab Name: COMPUCHEM SAS No.: SDG No.: JW513 Case No.: 27165 Lab Code: COMPU Lab Sample ID: 950551 Matrix: (soil/water) WATER Lab File ID: CN050551A54 5.0 (g/mL) mL Sample wt/vol: Date Received: 07/14/99 Level: (low/med) LOW Date Analyzed: 07/21/99 % Moisture: not dec. _ Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliquot Volume: _____ (uL) Soil Extract Volume: (uL) CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Q CAS NO. COMPOUND

CAD IVO.	(-3,3,3,3,3,3,3,3,3,3,			
74-97-3	Chloromethane		10 U	
	Bromomethane	·	10 U	
	Vinyl Chloride	·	10 U	
75-U1-4	Chloroethane		10 0	
75-00-3	Methylene Chloride		10 0	
75-09-2	Metry tere circuide		7 5	
67-64-1	Carbon Disulfide		10 U	·
75-15-0	1,1-Dichloroethene		10 0	
75-35-4	I, I-DICHIOIOECHERE		10 0	
/5-34-3	1,1-Dichloroethane		10 0	
67-66-3	Chloroform_		10 0	
107-06-2	1,2-Dichloroethane	•	10 0	. *
78-93-3	2-Butanone		10 0	
71-55-6	1,1,1-Trichloroethane		10 0	
	Carbon Tetrachloride			
	Bromodichloromethane		10 U	
	1,2-Dichloropropane		10 U	
10061-01-5	cis-1,3-Dichloropropene	.]	10 U	
79-01-6	Trichloroethene	.	10 U	
124-48-1	Dibromochloromethane	-	10 U	
	1,1,2-Trichloroethane		10 U	•
71-43-2	Benzene	_	10 0	
10061-02-6	trans-1,3-Dichloropropene	_	10 0	
75-25-2	Bromoform	_	10 U	
108-10-1	4-Methyl-2-Pentanone	_	10 U	
591-78-6	2-Hexanone	_	10 U	
127-18-4	Tetrachloroethene		10 U	
79-34-5	1,1,2,2-Tetrachloroethane_		10 U	
108-88-3	Toluene	-	10 U	•
108-90-7	Chlorobenzene	-	10 U	•
	Ethylbenzene	-] .	10 U	Ī
100-42-5	Styrene	-	10 0	Ī
	Xylene (Total)	-	10 U	
540-59-0	1, 2-Dichloroethene (total)	-1	10 0	
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FORM I VOA

OLM03.0.

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP431 Contract: 68D50004

Lab Name: COMPUCHEM

SDG No.: JW513

Lab Code: COMPU Case No.: 27165 SAS No.:

Lab Sample ID: 950551

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn050551a54

Level: (low/med) LOW

Matrix: (soil/water) WATER

Date Received: 07/14/99

% Moisture: not dec.

Date Analyzed: 07/21/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 0

COMPOUND NAME CAS NUMBER RTEST. CONC. 11. 12. 13. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 26. 27. 28. 29.

CP8-26-99

FORM I VOA-TIC

JW513 Lab Name: COMPUCHEM Contract: 68D50004 Case No.: 27165 SAS No.: SDG No.: JW513 Lab Code: COMPU Lab Sample ID: 949462 Matrix: (soil/water) WATER Lab File ID: CN049462A57 Sample wt/vol: 5.0 (g/mL) mL Level: (low/med) Date Received: 07/02/99 LOW % Moisture: not dec. Date Analyzed: 07/10/99 GC Column: EOUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: (uL) Soil Extract Volume: (uL) CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L COMPOUND CAS NO. 74-87-3-----Chloromethane 10 U 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 75-00-3-----Chloroethane 10 U 10 U 75-09-2-----Methylene Chloride 10 U 67-64-1----Acetone 75-15-0-----Carbon Disulfide 10 U 10 U 75-35-4----1,1-Dichloroethene 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane_ 10 U 78-93-3-----2-Butanone 10 U 10 U 71-55-6-----1,1,1-Trichloroethane 10 U

56-23-5-----Carbon Tetrachloride 75-27-4-----Bromodichloromethane 78-87-5----1, 2-Dichloropropane 10061-01-5----cis-1,3-Dichloropropene 79-01-6----Trichloroethene 124-48-1-----Dibromochloromethane 79-00-5----1,1,2-Trichloroethane 71-43-2----Benzene 10061-02-6----trans-1,3-Dichloropropene 75-25-2-----Bromoform 108-10-1----4-Methyl-2-Pentanone

591-78-6----2-Hexanone 127-18-4-----Tetrachloroethene 79-34-5----1,1,2,2-Tetrachloroethane 108-88-3-----Toluene_

108-90-7-----Chlorobenzene 100-41-4----Ethylbenzene 100-42-5-----Styrene

1330-20-7-----Xylene (Total) 540-59-0----1, 2-Dichloroethene (total)

Ug-26-99

10 U

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FORM I VOA

EPA	SAMPLE	NO.

Lab	Name:	COMPUCHEM	Contract:	68D50004

Case No.: 27165

JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949462

Sample wt/vol:

Lab Code: COMPU

5.0 (g/mL) mL

Lab File ID: cn049462a57

Level: (low/med) LOW

Date Received: 07/02/99

% Moisture: not dec.

Date Analyzed: 07/10/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

SDG No.: JW513

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

SAS No.:

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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OLMO3.0

JW514 Contract: 68D50004 Lab Name: COMPUCHEM

Case No.: 27165 SAS No.: SDG No.: JW513 Lab Code: COMPU

Lab Sample ID: 949467 Matrix: (soil/water) WATER

Lab File ID: CN049467A57 5.0 (g/mL) mL Sample wt/vol:

Date Received: 07/02/99 Level: (low/med) LOW

Date Analyzed: 07/10/99 % Moisture: not dec.

Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Aliquot Volume: ____(uL) Soil Extract Volume: (uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/L 10 U 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride_____ 10 U 75-00-3-----Chloroethane___ 10 U 75-09-2-----Methylene Chloride 10 U 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 10 U

10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane____ 10 U 67-66-3-----Chloroform_ 10 U 107-06-2----1,2-Dichloroethane___ 10 U 78-93-3----2-Butanone_ 10 U 71-55-6----1,1,1-Trichloroethane_ 10 U 56-23-5-----Carbon Tetrachloride____

10 U 75-27-4-----Bromodichloromethane_ 10 U 78-87-5----1,2-Dichloropropane___ 10061-01-5----cis-1,3-Dichloropropene 10 U 10 U 79-01-6-----Trichloroethene

10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5----1,1,2-Trichloroethane____ 10 U 71-43-2----Benzene 10 0 10061-02-6----trans-1,3-Dichloropropene

10 U 75-25-2----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone

10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene

79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 10 U

100-41-4----Ethylbenzene 10 U 100-42-5-----Styrene 1330-20-7-----Xylene (Total) 10 U 10 U

540-59-0----1,2-Dichloroethene (total)

OLMO3.0

FORM I VOA

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	JW514	

Lab Name: COMPUCHEM	Contract: 68D50004
Lab Code: COMPU Case No.: 271	165 SAS No.: SDG No.: JW513
Matrix: (soil/water) WATER	Lab Sample ID: 949467
Sample wt/vol: 5.0 (g/mL)) mL Lab File ID: cn049467a57
Level: (low/med) LOW	Date Received: 07/02/99
% Moisture: not dec	Date Analyzed: 07/10/99
GC Column: EQUITY624 ID: 0.53 (r	mm) Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume:(u

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Number TICs found: 0

Soil Extract Volume:

CAS NUMBER	COMPOUND NAME	. 1	EST. CONC.	Q
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JW522 Contract: 68D50004

Lab Name: COMPUCHEM

Case No.: 27165 SAS No.: Lab Code: COMPU

Matrix: (soil/water) WATER

Lab Sample ID: 949468

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: CR049468B51

SDG No.: JW513

Level: (low/med)

LOW

Date Received: 07/02/99

% Moisture: not dec.

Date Analyzed: 07/12/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

	8	7.0 77
74-87-3Chloromethane		10 U
74-83-9Bromomethane		10 U
75-01-4Vinyl Chloride		10 0
75-00-3Chloroethane		10 U
75-09-2Methylene Chloride		10 U
67-64-1Acetone		2 J
75-15-0Carbon Disulfide		2 J
75-35-41,1-Dichloroethene		10 U
75-34-31,1-Dichloroethane		10 U
67-66-3Chloroform		10 U
107-06-21,2-Dichloroethane		10 U
78-93-32-Butanone		10 U
71-55-61,1,1-Trichloroethane		10 U
56-23-5Carbon Tetrachloride		10 U
75-27-4Bromodichloromethane		10 U
78-87-51,2-Dichloropropane		10 U
10061-01-5cis-1,3-Dichloropropene		10 U
79-01-6Trichloroethene		10 U
124-48-1Dibromochloromethane		10 U
79-00-51,1,2-Trichloroethane		10 U
71-43-2Benzene		2 J
10061-02-6trans-1,3-Dichloropropene		10 U
75-25-2Bromoform		10 U
108-10-14-Methyl-2-Pentanone		10 U
591-78-62-Hexanone		10 U
127-18-4Tetrachloroethene		10 U
79-34-51,1,2,2-Tetrachloroethane		10 U
108-88-3Toluene		10 05
108-90-7Chlorobenzene		5 J
100-41-4Ethylbenzene		10 05
100-42-5Styrene	· ·	10 05
1330-20-7Xylene (Total)		2 7
540-59-01,2-Dichloroethene (total)		10 U
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CP8-26-9 OLM03.0

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		•	4				JW522	
Lab	Name:	COMPUCHEM	Co	ontract:	68D50004			

Lab Code: COMPU SAS No.: SDG No.: JW513 Case No.: 27165

Matrix: (soil/water) WATER Lab Sample ID: 949468

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr049468b51

Level: (low/med) LOW Date Received: 07/02/99

Date Analyzed: 07/12/99 % Moisture: not dec.

Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 119-64-2	SUBSTITUTED BENZENE NAPHTHALENE, 1,2,3,4-TETRAHY	21.93 23.86	5 5	JV NJ
4.				
6				
7. 8.				
9				
11.				
12. <u> </u>				
14. 15.				
16. 17.				
18.				
19. 20.				
21				
23.				
24. 25.				
26. 27.				
28				
30				

JW527 Contract: 68D50004 Lab Name: COMPUCHEM SDG No.: JW513 Lab Code: COMPU Case No.: 27165 SAS No.: Lab Sample ID: 949694 Matrix: (soil/water) WATER 5.0 (g/mL) mL Lab File ID: CN049694B51 Sample wt/vol: Date Received: 07/03/99 Level: (low/med) LOW Date Analyzed: 07/13/99 % Moisture: not dec. Dilution Factor: 10.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliquot Volume: Soil Extract Volume: (uL) (uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

	•			
74-87-3	Chloromethane		100	ט
	Bromomethane		100	U
	Vinyl Chloride	4	100	υl
	Chloroethane		100	י די
	Methylene Chloride		420	
67-64-1	Acetone		130	
	Carbon Disulfide	·	100	ן ע
75-35-4	1,1-Dichloroethene		100	
75-34-3	1,1-Dichloroethane		100	
	Chloroform		100	
107-06-2	1,2-Dichloroethane		100	-
78-93-3	2-Butanone	,	100	
	1,1,1-Trichloroethane		100	
	Carbon Tetrachloride		100	1
	Bromodichloromethane		100	
– –	1,2-Dichloropropane	·	100	
	cis-1,3-Dichloropropene		100	
	Trichloroethene		100	
	Dibromochloromethane		100	
	1,1,2-Trichloroethane		100	
	Benzene		100	υ
	trans-1,3-Dichloropropene		100	-
	Bromoform		100	1
	4-Methyl-2-Pentanone		100	U
	2-Hexanone		100	υ
	Tetrachloroethene		100	ט
	1,1,2,2-Tetrachloroethane		100	Ū
	Toluene		100	
	Chlorobenzene		100	
	Ethylbenzene		100	
	Styrene		100	ט
	Xylene (Total)		100	
540-59-0	1,2-Dichloroethene (total)	1	100	1
- 10 00 0				
l 		. 1		١ ١

CP 8-26-99

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JW527	

Contract: 68D50004 Lab Name: COMPUCHEM

Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949694

Sample wt/vol:

Lab Code: COMPU

5.0 (g/mL) mL

Lab File ID: cn049694b51

Level: (low/med)

LOW

Date Received: 07/03/99

% Moisture: not dec.

Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume:____

Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 2

AS NUMBER COMPOUND NAME		RT	EST. CONC.	Q
1. 76-13-1 2. 110-54-3	ETHANE, 1,1,2-TRICHLORO-1,2, HEXANE	8.79 10.92	198 57	NJ NJ
3. 4.				
5				
6				
8. 8.				
9.				
0.				
1. 2.				·
3.				
4.				
5.				
6				<u> </u>
7				
8. 9.				·
0				
1.				.
2				-
3. 4				-
5.		l. v		-
6.		1 1	•	
7.				_
8	<u> </u>			-
9.		-		-
V				-

JW530 Contract: 68D50004

Lab Name: COMPUCHEM

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949475

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID:

CR049475B51

Level: (low/med)

LOM

Date Received: 07/02/99

% Moisture: not dec. ____

Date Analyzed: 07/12/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____

Soil Aliquot Volume: _

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	•			
74-87-3	hane loride hane e Chloride isulfide loroethene loroethane mm loroethane ichloroethane etrachloride chloromethane loropropane loromethane coethene chloromethane coethene chloromethane coethene chloropropene coethene chloropropene coethene chloropropene coethene chloromethane chloromethane chloromethane chloromethane chloromethane chloropropene cm	1 1 2 1 1 1 1 1 1 1 1 1	8 000000000000000000000000000000000000	
10061-01-5cis-1,3-79-01-6Trichlor	Dichloropropene]	.0 U .0 U	
79-00-51,1,2-Tr 71-43-2Benzene	richloroethane	. 1	0 U 1 J	
75-25-2Bromofor 108-10-14-Methyl 591-78-62-Hexand	m L-2-Pentanone one		LO U	·
79-34-51,1,2,2- 108-88-3Toluene 108-90-7Chlorobe	-Tetrachloroethane enzene		10 U 2 J 10 U 10 U	
100-41-4Ethylber 100-42-5Styrene 1330-20-7Xylene 540-59-01,2-Dick	(Total)		10 U 10 U 10 U	
		1	OPg-	26-95
	FORM I VOA			0. EOMIC

JW53	0

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949475

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cr049475b51

Level: (low/med)

LOW

Date Received: 07/02/99

Date Analyzed: 07/12/99

% Moisture: not dec.

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: _

CONCENTRATION UNITS:

Number TICs found: 23

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 2. 3. 4. 5. 78-78-4 6. 7. 8. 9. 10. 11. 76-13-1 12. 13. 14. 15. 16. 17. 110-54-3 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN ALKENE UNKNOWN ALKENE UNKNOWN ALKENE UNKNOWN HYDROCARBON BUTANE, 2-METHYL- UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON ETHANE, 1,1,2-TRICHLORO-1,2, UNKNOWN ALKANE UNKNOWN ALKANE UNKNOWN ALKENE UNKNOWN ALKENE HEXANE UNKNOWN ALKENE SUBSTITUTED HEXENE SUBSTITUTED HEXENE SUBSTITUTED HEXENE UNKNOWN ALKENE UNKNOWN ALKENE UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON	4.88 5.24 5.61 6.34 6.73 7.58 7.95 8.24 8.38 8.80 9.60 9.85 9.91 10.35 10.73 10.92 11.11 11.23 11.59 13.28 14.10 22.74	26 10 23 31 52 16 14 9 16 17 10 9 10 26 11 6		

OLMO3.0

FORM I VOA-TIC

1A: 30 (10)

VOLATILE ORGANICS ANALYSIS DATA SHEET

JW536

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949695

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: CN049695B51

Level: (low/med)

LOW

Date Received: 07/03/99

% Moisture: not dec.

Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53 (mm)

CAS NO.

COMPOUND

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL)

Soil Extract Volume:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

79-00-51,1,2-Trichloroethane10 U				
10 U U U U U U U U U	74-87-3Chloromethane	i	10	· TT
10 U U U U U U U U U		-		
10 U 15 10 U 15 10 U 15 10 U 15 10 U 15 10 U 15 10 U 15 10 U 15 10 U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U 15 10 U U U 15 10 U U U U U U U U U		-		
15-09-2	75-00-2	-		
16			- 1	.0
10 U U U U U U U U U	67-64-1 Agotope			
10 U U U U U U U U U				ŤŤ
10 U 1		-1 '		
57-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 66-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethane 10 U 79-00-51,1,2-Trichloroethane 10 U 77-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 107-18-4Tetrachloroethane 10 U 108-88-31,1,2,2-Tetrachloroethane 10 U 108-88-3			1	
1.07-06-21, 2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61, 1, 1-Trichloroethane 10 U 66-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51, 2-Dichloropropane 10 U 1.0061-01-5cis-1, 3-Dichloropropene 10 U 79-01-6Trichloroethane 10 U 79-01-6Trichloroethane 10 U 79-01-51, 1, 2-Trichloroethane 10 U 79-00-51, 1, 2-Trichloroethane 10 U 79-143-2Benzene 10 U 10061-02-6trans-1, 3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 109-18-4Tetrachloroethane 10 U 109-34-51, 1, 2, 2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 100-41-4Ethylbenzene 10 U 100-42-5		-		
10 U 10 10 10 10 10 10 1				
71-55-61,1,1-Trichloroethane			-	_
56-23-5	78-93-32-Butanone	_		
Total Tota	71-55-61,1,1-TrichLoroethane	_		
78-87-51, 2-Dichloropropane 10 U 10061-01-5cis-1, 3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51, 1, 2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1, 3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51, 1, 2, 2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 100-41-4Ethylbenzene 10 U 100-42-5				
10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7		_1		
79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7	78-87-51,2-Dichloropropane	_		-
79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7	10061-01-5cis-1,3-Dichloropropene			
79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7	79-01-6Trichloroethene			
10 U 10 10 10 10 10 10	124-48-1Dibromochloromethane		10	Ū
10 U 10 10 10 10 10 10	79-00-51,1,2-Trichloroethane		10	Ū
75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U	71-43-2Benzene	_	10	U
75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U	10061-02-6trans-1,3-Dichloropropene		10	U
108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U		_	10	ט
591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U	108-10-14-Methyl-2-Pentanone			
127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U				1 -
79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U				
108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U		- .		
108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U				
100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U		-		
100-42-5Styrene 10 U 1330-20-7Xylene (Total) 10 U				
1330-20-7Xylene (Total) 10 U				1 -
540-59-01,2-Dichloroethene (total) 10 U		 .	_	
540-59-01,2-Dichioroethene (total) 10 U	133U-ZU-/Xylene (Total)	<u> </u>	-	
	540-59-01,2-Dichioroethene (total)_	_	±0	U
		l		1

OLMO3.0

JW536	

Lab Na	me:	COMPUCHEM
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Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

. Nakali ang Pinggalang ang Kabupatèn Banggalang ang Kabupatèn Banggalang ang Kabupatèn Banggalang ang Kabupat

Matrix: (soil/water) WATER

Lab Sample ID: 949695

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cn049695b51

11.

27. 28. 29.

Level: (low/med) LOW

Date Received: 07/03/99

% Moisture: not dec.

Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL)

Soil Extract Volume:____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 1

1200 200			, J.	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1. 76-13-1 2.	ETHANE, 1,1,2-TRICHLORO-1,2,	8.79	20	NJ
3. 4.				
5. 6.				
7.				

17. 18. 19. 20. 21._ 23.

OLMO3.0

JW537 Contract: 68D50004 Lab Name: COMPUCHEM Case No.: 27165 SAS No.: SDG No.: JW513 Lab Code: COMPU Lab Sample ID: 949696 Matrix: (soil/water) WATER Sample wt/vol: Lab File ID: CN049696B51 5.0 (g/mL) mL Date Received: 07/03/99 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 07/13/99 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L 74-87-3-----Chloromethane 10 TU 74-83-9-----Bromomethane_ 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2----Methylene Chloride 28 67-64-1-----Acetone 14 75-15-0-----Carbon Disulfide 10 0 75-35-4----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 39 10 0 107-06-2----1, 2-Dichloroethane 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 7 1 3 75-27-4-----Bromodichloromethane 78-87-5----1, 2-Dichloropropane_ 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 10 U 79-01-6----Trichloroethene 124-48-1-----Dibromochloromethane 2 J 10 U 79-00-5----1,1,2-Trichloroethane 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U

> 08-26-99 OLM03.0

10 U

10 U

10 U

10 U

10 U

10 U

10 U

127-18-4----Tetrachloroethene

108-90-7-----Chlorobenzene

100-41-4-----Ethylbenzene

1330-20-7------Xylene (Total)

108-88-3-----Toluene

100-42-5----Styrene

79-34-5----1,1,2,2-Tetrachloroethane

540-59-0----1, 2-Dichloroethene (total)

Lab	Name:	COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949696

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cm049696b51

Level: (low/med) LOW

Date Received: 07/03/99

% Moisture: not dec.

Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume:

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 2

CAS NUMBER	· COMPOUND NAME	RT	EST. CONC.	·Q
======================================	ETHANE, 1,1,2-TRICHLORO-1,2, SUBSTITUTED ALKANE	8.79 13.94	17 9	J/
3				
5.				
6.				.
7.				
8.				.]
9.				.
0				.
1				
2				.
3				
4				-
5				-
6				-
7. 8.		<u> </u>		-
6 9.				
o		4.4		-
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.8.				
.9.				_
0.				_

JW568

Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949697

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: CN049697B51

Level: (low/med)

LOW

Date Received: 07/03/99

% Moisture: not dec.

Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53

COMPOUND

Dilution Factor: 1.0

Soil Extract Volume:___

CAS NO.

Soil Aliquot Volume: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

•			
74-97-3	Chloromethane		10 U
· •	Bromomethane		10 0
	Vinyl Chloride		10 U
	Chloroethane		10 U
75-00-3	Methylene Chloride		10 U
67-64-1			4 J
7F 1F 0	Carbon Disulfide	÷	10 U
75-15-0	1,1-Dichloroethene		10 U
	1,1-Dichloroethane		10 U
	Chloroform		10 0
	1,2-Dichloroethane		10 U
	2-Butanone		10 U
	1,1,1-Trichloroethane		10 U
/1-55-6	Carbon Tetrachloride		10 U
			10 U
	Bromodichloromethane		10 U
	1, 2-Dichloropropane		10 0
	cis-1,3-Dichloropropene		10 0
	Trichloroethene		10 0
	Dibromochloromethane		10 0
	1,1,2-Trichloroethane		- 1 -
71-43-2			10 U
	trans-1,3-Dichloropropene		10 U
	Bromoform		10 U
	4-Methyl-2-Pentanone		10 U
	2-Hexanone		10 U
	Tetrachloroethene		10 U
79-34-5	1,1,2,2-Tetrachloroethane		10 U
108-88-3	Toluene		10 U
108-90-7	Chlorobenzene		10 U
100-41-4	Ethylbenzene		10 U
100-42-5	Styrene		10 U
	Xylene (Total)		10 U
	1,2-Dichloroethene (total)_	-	10 U

	-	JW568
Contract:	68D50004	

Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949697

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn049697b51

Level: (low/med) LOW

Date Received: 07/03/99

% Moisture: not dec.

Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

Soil Aliquot Volume: __

(uL)

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

AS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
. 124-19-6	NONANAL	22.74	6	NJ
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FORM I VOA-TIC

JW569 Contract: 68D50004 Lab Name: COMPUCHEM Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Lab Sample ID: 949698 Matrix: (soil/water) WATER Lab File ID: CN049698B51 5.0 (g/mL) mL Sample wt/vol: Date Received: 07/03/99 Level: (low/med) Date Analyzed: 07/13/99 % Moisture: not dec. Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliquot Volume: _____ (uL) Soil Extract Volume: ____(uL) CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) ug/L CAS NO.

			- 1	
74-87-3	Chloromethane	Service Services	10 U	
	Bromomethane	•	10 U	l
	Vinyl Chloride		.10 U	į.
75-00-3	Chloroethane		10 U	
75-00-3	Methylene Chloride		10 U]
67-64-1			3 J	-
75-15-0	Carbon Disulfide		10 U	- 1
75-25-4	1,1-Dichloroethene		10 U	
75 34 3	1,1-Dichloroethane		10 U	
	Chloroform		10 U	- 1
	1,2-Dichloroethane		10 U	
	2-Butanone		10 U	
			10 0	1.
/1-55-6	1,1,1-Trichloroethane		10 U	
56-23-5	Carbon Tetrachloride		10 U	
75-27-4	Bromodichloromethane		10 0	-
78-87-5	1,2-Dichloropropane		10 U	- 1
10061-01-5	cis-1,3-Dichloropropene		10 0	
79-01-6	Trichloroethene		10 0	
124-48-1	Dibromochloromethane		10 0	1
79-00-5	1,1,2-Trichloroethane			1
71-43-2	Benzene		10 U	- 1
10061-02-6	trans-1,3-Dichloropropene		10 U	
75-25-2	Bromoform		10 0	1
108-10-1	4-Methyl-2-Pentanone		10 U	. [
591-78-6	2-Hexanone		10 U	- 1
127-18-4	Tetrachloroethene		10 U	- 1
79-34-5	1,1,2,2-Tetrachloroethane		.10 ប	
108-88-3	Toluene		10 U	
	Chlorobenzene		10 U	
	Ethylbenzene	.	10 U	1
	Styrene		10 U	
100-42-0	Xylene (Total)	-	10 U	
1330-20-/	1,2-Dichloroethene (total)	-	10 0	1
540-59-0	I, Z-DICHIOTOECHEHE (COCAI)	-	-0 3	•
		- 1	! `	

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68D50004

JW569

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949698

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn049698b51

Level: (low/med) LOW

Date Received: 07/03/99

% Moisture: not dec.

Date Analyzed: 07/13/99

GC Column: EQUITY624 ID: 0.53 (mm)

Number TICs found: 0

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

JW576

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

LOW

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950023

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: CN050023A54

Level: (low/med)

Date Received: 07/09/99

% Moisture: not dec.

Date Analyzed: 07/18/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____

Soil Aliquot Volume: _

(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

		·		······································	1
74-87-3Chloror	ethane	2	10	<u>.</u>	
74-83-9Bromome			10		
75-01-4Vinyl (ט	
75-00-3Chloroe	ethane	•	10	υl	
75-09-2Methyle			102	ZU	
67-64-1Acetone			10		
75-15-0Carbon	Disulfide	*•	10		
75-35-41,1-Dic	chloroethene		10	U.	
75-34-31,1-Dic	chloroethane		10	∙υ	
67-66-3Chloro	form		10	U	
107-06-21,2-Dic	chloroethane		10	Ū	
78-93-32-Butar			10	ָ ט	
71-55-61,1,1-5			10	Ū	
56-23-5Carbon	Tetrachloride	•	10	ប	
75-27-4Bromod:	ichloromethane		10	Ū	
78-87-51,2-Die			10	U	
10061-01-5cis-1,	3-Dichloropropene	•	10	-	ŀ
79-01-6Trichle	proethene		10		
124-48-1Dibrom		•	10	U ·	
79-00-51,1,2-			10	Ū	
71-43-2Benzene	e		10	Ŭ	
10061-02-6trans-			10	U	
75-25-2Bromofe	orm		10	Ū	
108-10-14-Meth	/1-2-Pentanone			U	
591-78-62-Hexai				U	
127-18-4Tetrac		· .		Ū	
79-34-51,1,2,	2-Tetrachloroethane	•	10	U	
108-88-3Toluen			· 10	Ū	
108-90-7Chloro			10		
100-41-4Ethylb	enzene		10		
100-42-5Styren	e		10	U	
1330-20-7Xylene	(Total)	•	10	U	.
540-59-01,2-Di	chloroethene (total)		10	Ū	
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			-		

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	JW576	

Lab Name: COMPUCHEM.

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950023

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn050023a54

Level: (low/med) LOW

Date Received: 07/09/99

% Moisture: not dec.

Date Analyzed: 07/18/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1 . 311-89-7	PERFLUOROTRIBUTYLAMINE Lab Conti	10.14		NJ R
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JW577
COMPUCHEM Contract: 68D50004

Lab Name: COMPUCHEM Contract: 68D5000

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 949973

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN049973A54

Level: (low/med) LOW Date Received: 07/08/99

% Moisture: not dec. Date Analyzed: 07/18/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

•			
74-87-3C	nloromethane	10	ט
74-83-9B	romomethane	10	ן ט
75-01-4V		. 10	ט
75-00-3C		10	
	ethylene Chloride	10	
67-64-1A		10	
75-15-0C		10	
	,1-Dichloroethene	10	
75-3 <i>4-</i> 31	,1-Dichloroethane	10	
67-66-3C		10	
	,2-Dichloroethane	10	
78-93-32		10	
	,1,1-Trichloroethane	10	1 - 1
	arbon Tetrachloride	10	1 - 1
	romodichloromethane	10	
	,2-Dichloropropane	10	1 1
	is-1,3-Dichloropropene	10	1
79-01-6T		10	1 1
	ibromochloromethane	10	1 - 1
	,1,2-Trichloroethane	10	1 1
71-43-2B		10	1 - 1
	rans-1,3-Dichloropropene	10	1 1
75-25-2B		10	
	-Methyl-2-Pentanone	10	1 1
591-78-62	-Hexanone		ט
127-18-4T			Ü
	,1,2,2-Tetrachloroethane		บี
108-88-3T			ט
108-90-7			บี
100-41-4E			ט
100-42-5			ט
1330-20-7X		10	3 !
	,2-Dichloroethene (total)	10	1 - 1
D40-D3-0	., 2-Dicinordechene (cotar)	, 10	ا

FORM I VOA

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	. JW577		
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Contract: 68D500

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949973

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn049973a54

Level: (low/med)

LOW

Date Received: 07/08/99

% Moisture: not dec.

Date Analyzed: 07/18/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME		EST. CONC.	Q
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JW581 Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950024

Sample wt/vol: Lab File ID: 5.0 (g/mL) mL CN050024A54

Level: (low/med) Date Received: 07/09/99

% Moisture: not dec. Date Analyzed: 07/18/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. (ug/L or ug/Kg) ug/L COMPOUND 74-87-3-----Chloromethane 10 U. 10 U 74-83-9-----Bromomethane 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 10 21 x U 75-09-2----Methylene Chloride 10 U 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane_ 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4----Bromodichloromethane 10 U 78-87-5----1, 2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene 1|J79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4----Ethylbenzene 10 U 100-42-5-----Styrene 10 U 1330-20-7-----Xylene (Total) 10 U 540-59-0----1,2-Dichloroethene (total) 21

W8-26

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	COMPUCHEM
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Contract: 68D50004

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950024

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn050024a54

Level: (low/med)

Date Received: 07/09/99

% Moisture: not dec.

LOW

Date Analyzed: 07/18/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____

(uL)

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	; Q
1	ETHER PROPANOIC ACID, 2,2,3-TRICHL	8.05 10.06	21 12	NJ NJ
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.				
14. 15. 16. 17. 18. 19. 20. 21. 22. 23.				
24. 25. 26. 27. 28. 29.				

JP426 Contract: 68D50004 Lab Name: COMPUCHEM Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Lab Sample ID: 950548 Matrix: (soil/water) WATER Sample wt/vol: 500 (g/mL) ML Lab File ID: GH050548A64 Date Received: 07/14/99 Level: (low/med) LOW % Moisture: ____ decanted: (Y/N)___ Date Extracted: 07/15/99 Concentrated Extract Volume: 500(uL) Date Analyzed: 07/19/99 Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	(ug/L or ug/	Kg) ÜG/L	Q
108-95-2	bis(2- Chloroet	hyl)ether	· .	10 U 10 U
95-57-8	2-Chlorophenol			10 U
541-73-1	1,3-Dichlorobe	enzene	· .	10 U
106-46-7	1,4-Dichlorobe 1,2-Dichlorobe	enzene	٠	10 U
95-50-1	1,2-Dichlorobe	enzene		10 U
95-48-7	2-Methvlphenol			10 U
108-60-1	2,2'-oxybis(1-	Chloropropane)	•	10 U
1 106-44-5	4-Methylphenol	_ '		10 U
621-64-7	N-Nitroso-di-r	n-propylamine		10 U
67-72-1	Hexachloroetha	ane	•	10 U
	Nitrobenzene_			10 U
78-59-1	Isophorone			10 U
88-75-5	2-Nitrophenol			10 U
105-67-9	2.4-Dimethylph	nenol		10 U
111-91-1	bis(2-Chloroet	hoxy) methane		10 0
120-83-2	2,4-Dichloroph	nenol		10 U
120-82-1	1,2,4-Trichlo	robenzene		10 U
91-20-3	Naphthalene			10 U
106-47-8	4-Chloroanili	1e	. *	10 U
87-68-3	Hexachlorobuta	adiene	•	10 U
59-50-7	4-Chloro-3-met	thylphenol		10 U
91-57-6	2-Methylnaphtl	halene		10 U
77-47-4	Hexachlorocyc	lopentadiene		10 U
88-06-2	2.4.6-Trichlo	rophenol		10 U
95-95-4	2,4,5-Trichlo	rophenol		25 U
91-58-7	2-Chloronapht.	halene		10 U
88-74-4	2-Nitroanilin	e		25 U
	Dimethylphtha			10 U
	Acenaphthylen			10 U
606-20-2	2;6-Dinitroto	luene		10 U
99-09-2	3-Nitroanilin	e		25 U
83-32-9	Acenaphthene			10 U
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CONCENTRATION UNITS:

FORM I SV-1

CV - 27-99 OLMO3.0

JP426
Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950548

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH050548A64

Level: (low/med) LOW Date Received: 07/14/99

% Moisture: decanted: (Y/N) Date Extracted:07/15/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/19/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5	2,4-Dinitrophenol		:		25	U.	
100-02-7	-4-Nitrophenol			•	25		- 1.
132-64-9	Diponsofinan					Ü.	- 1
	2,4-Dinitrotoluene					Ü :	
121-14-2	Diethelehelete					<u>U</u>	- 1.
7005 70 3	-Diethylphthalate				1	U:	
/005-/2-3	-4-Chlorophenyl-phenylether_					_	
86-73-7		,		'		U	
	4-Nitroaniline					U	1
	4,6-Dinitro-2-methylphenol				1	U	- 1
86-30-6	N-nitrosodiphenylamine_(1)				10	U	ł
101-55-3	4-Bromophenyl-phenylether						- N g
118-74-1	Hexachlorobenzene					U	· ,
87-86-5	Pentachlorophenol				1	Ū	i
85-01-8	Phenanthrene		,		10	U	
120-12-7	Anthracene				10	U	
86-74-8	Carbazole		2	-	10	U	
84-74-2	Di-n-butylphthalate	1			10	Ū	
206-44-0	Fluoranthene				10	U	
129-00-0	Pvrene	'			10	Ū	- 1
85-68-7	Butylbenzylphthalate				10	U	- 1
91-94-1	3,3'-Dichlorobenzidine		٠.,		10	U ·	
56-55-3	Benzo(a) anthracene				10		1.
218-01-9	Chrysene				10	U	
117-81-7	bis(2-Ethylhexyl)phthalate				1	J.	. 1
117-84-0	Di-n-octylphthalate		•		10	_	٠,
205-99-2	Benzo(b) fluoranthene				10	Ū.	
207-08-9	Benzo(k) fluoranthene				10	U	.
E0-33-0	Benzo(k) Fruoranchene	1		1.	10	τ ί	
102 20 5	Beilzo (a) pyrelie				10	_	- 1
133-33-3	Indeno(1,2,3-cd)pyrene					. —	·
101 04 0	Dibenzo(a,h)anthracene		. •		10	Ū	
191-24-2	Benzo(g,h,i)perylene				10	U	
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l): - Cannot be se	eparated from Diphenylamine				· . /)	•

FORM I SV-2

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

•				JP426
Lab Name:	COMPUCHEM	Contract:	68D50004	· · · · · · · · · · · · · · · · · · ·

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950548

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH050548A64

Level: (low/med) LOW Date Received: 07/14/99

% Moisture: ____ decanted: (Y/N) ___ Date Extracted:07/15/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/19/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	COMPOUND NAME	RT	EST. CONC.	Q
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J SV-TIC 01

JP427 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Matrix: (soil/water) WATER Lab Sample ID: 950549 Sample wt/vol: 970 (g/mL) ML Lab File ID: GH050549A64 Date Received: 07/14/99 Level: (low/med) LOW % Moisture: _____decanted: (Y/N) Date Extracted:07/15/99 Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99 Dilution Factor: 1.0

Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 108-95-2----Phenol 10 U 111-44-4----bis(2-Chloroethyl)ether___ 10 U 95-57-8-----2-Chlorophenol 541-73-1-----1,3-Dichlorobenzene 10 U 10 U 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene 10 0 10 U 95-48-7----2-Methylphenol 10 U 108-60-1----2;2'-oxybis(1-Chloropropane) 10 U 106-44-5----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1-----Hexachloroethane 10 U 98-95-3-----Nitrobenzene 10 U 78-59-1----Isophorone 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol 10 U 111-91-1-----bis(2-Chloroethoxy)methane__ 10 0 120-83-2----2,4-Dichlorophenol____ 10 U 120-82-1----1,2,4-Trichlorobenzene 10 U 91-20-3-----Naphthalene 10 U 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene____ 10 U 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol 10 U 95-95-4-----2,4,5-Trichlorophenol 91-58-7-----2-Chloronaphthalene 26 U 10 U 88-74-4----2-Nitroaniline 26 U 131-11-3-----Dimethylphthalate 10 U 208-96-8-----Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene____ 10 U 99-09-2----3-Nitroaniline 26 U 83-32-9-----Acenaphthene_ 10 U

> > FORM I SV-1

JP427 Contract: 68D50004 Lab Name: COMPUCHEM Case No.: 27165 SAS No.: SDG No.: JW513 Lab Code: COMPU Lab Sample ID: 950549 Matrix: (soil/water) WATER Lab File ID: GH050549A64 (g/mL) ML Sample wt/vol: 970 Date Received: 07/14/99 Level: (low/med) LOW Date Extracted: 07/15/99 decanted: (Y/N) % Moisture: Date Analyzed: 07/20/99 1000(uL) Concentrated Extract Volume: Dilution Factor: 1.0 Injection Volume: 2.0(uL) GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L COMPOUND. CAS NO. 26 U 51-28-5----2,4-Dinitrophenol_ 26 U 100-02-7----4-Nitrophenol 10 U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2----Diethylphthalate_ 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 26 U 100-01-6----4-Nitroaniline 26 U 534-52-1-----4,6-Dinitro-2-methylphenol_ 10 U 86-30-6----N-nitrosodiphenylamine_(1)__ 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 26 U 87-86-5-----Pentachlorophenol_ 10 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8------Carbazole 10 U 84-74-2-----Di-n-butylphthalate___ 10 U 206-44-0-----Fluoranthene_ 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 91-94-1----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate_ 10 U 117-84-0-----Di-n-octylphthalate 205-99-2----Benzo(b) fluoranthene 10 U 10 U 207-08-9-----Benzo(k) fluoranthene_ 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene_ 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(g,h,i)perylene__

FORM I SV-2

(1) - Cannot be separated from Diphenylamine

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP427		

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

970 (g/mL) ML

Lab Sample ID: 950549

Sample wt/vol:

Lab File ID: GH050549A64

Level: (low/med)

LOW

Date Received: 07/14/99

% Moisture:

decanted: (Y/N)

1000 (uL)

Date Extracted:07/15/99

Concentrated Extract Volume:

Date Analyzed: 07/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC_Cleanup: (Y/N) N

pH:

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2.	UNKNOWN UNKNOWN	6.10	3	JW JW
4.				
6. 7.				
8. 9.				
10. 11. 12.				· · · · · · · · · · · · · · · · · · ·
13				-
15. 16.				
17. 18.				
19. 20. 21.				
22				-
24.				
26. 27.				
28. 29. 30.				
30.				-

FORM I SV-TIC

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950550

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR050550B70

Level: (low/med) LOW. Date Received: 07/14/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/26/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/30/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg), UG/L Q

FORM I SV-1

Ug-27-99 OLMO3.0

Lab Name: COMPUCHEM Contract: 68D50004 JP430
Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950550

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR050550B70

Level: (low/med) LOW Date Received: 07/14/99

% Moisture: ____ decanted: (Y/N)___ Date Extracted:07/26/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/30/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

injection volume: 2.0(db) Dilution Factor: 1.0

pH:

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. CÓMPOUND (ug/L or ug/Kg) UG/L Q

F1 20 F	274 Dinia - 17		0.5
	2,4-Dinitrophenol		25 U 3
	4-Nitrophenol		25 U
	Dibenzofuran	.	10 U
121-14-2	2,4-Dinitrotoluene		10 ∪ ₩
84-66-2	Diethylphthalate		1 J
7005-72-3	4-Chlorophenyl-phenylether_		10 U J
86-73-7			10 U
100-01-6	4-Nitroaniline		25 U
534-52-1	4,6-Dinitro-2-methylphenol_		25 U
86-30-6	N-nitrosodiphenylamine (1)		10 0
101-55-3	4-Bromophenyl-phenylether	•	10 U
118-74-1	Hexachlorobenzene		10 UV
87-86-5	Pentachlorophenol	•	2 J
85-01-8	Phenanthrene	•	10 07
120-12-7	Anthracene	•	10 0
26-74-0	Carbazole	•	10 0
		•	
206 44 2	Di-n-butylphthalate		10 Ū →
206-44-0	Fluoranthene		1 J
129-00-0	Pyrene		3 J
85-68-7	Butylbenzylphthalate		10 U J
91-94-1	3,37-Dichlorobenzidine		10 U
56-55-3	Benzo(a) anthracene		10 U
218-01-9	Chrysene		10 U ❤
117-81-7	bis(2-Ethylhexyl)phthalate	•	17 5
117-84-0	Di-n-octvlphthalate		17 J
205-99-2	Benzo(b)fluoranthene	-	10 UJ
207-08-9	Benzo(k)fluoranthene	•	10 U
50-32-8	Benzo(a)pyrene	-	10 0
193-39-5	Indeno(1,2,3-cd)pyrene	-	10 0
53-70-3	Dibenzo(a,h)anthracene	-	10 0
191-24-2	Benzo(g,h,i)perylene	-	
TJT-77	Benzo(g,n,r)peryrene	-	10 UV
Connet		,	
- Cannot be	separated from Diphenylamine		. 70

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP430 ·

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER

Sample wt/vol: 500 (g/mL) ML

Lab File ID: GR050550B70

Level: (low/med) LOW

% Moisture: ____ decanted: (Y/N)___

Date Received: 07/14/99

Concentrated Extract Volume: 500(uL)

Date Extracted: 07/26/99 Date Analyzed: 07/30/99

Lab Sample ID: 950550

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 32

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	•					· · · · · · · · · · · · · · · · · · ·		
CAS NUMBER	1. 5	COMPOUND	NAME		RT	EST.	CONC.	Q
	======		====	Tab Costa	mination = 70	=====	======	======
1	TRICHLOR	OPROPENE	(BC)	J.	3.70			1 × - 40
2.	CONTRACTOR	(BC)		X	6.42		7	JB- K
] 3.	UNKNOWN	•	,		10.46		24	JN
4.	UNKNOWN	•		•	11.61		5	J
5.	UNKNOWN				11.93	1	. 6	J-
6.	UNKNOWN	•			12.25		4	J]
7.	UNKNOWN			•	12.66	· ·	5	IJ
8.	UNKNOWN				12.93		7	J I
9.	UNKNOWN				13.03	1	. 6	J
10.	UNKNOWN				13.08		6	J
11.	UNKNOWN		•		13.13		4	J
12.	UNKNOWN		•	•	13.20		5	lj
13.	UNKNOWN	.*			13.33		5	J
14.	UNKNOWN	* .			13.38		4	J
15.	UNKNOWN	•			13.57		5	J
16.					13.82		. 5	J
17.	UNKNOWN	DITTOTT A CO			i .			
18.		PHTHALAT	Ľ		13.87		<u>4</u> 7	l Ţ
	UNKNOWN				13.91			ū
19.	UNKNOWN				14.18		, 6.	J J
20.	UNKNOWN				14.25		9	J
21.	UNKNOWN	•			14.36		14	J
22	UNKNOWN	AMIDE		•	14.48	·	13	J
23.	UNKNOWN				14.57		. 4 8	J
24.	UNKNOWN		•		14.62			J
25.	UNKNOWN			•	14.68		5	J
26.	UNKNOWN			•	14.82		10	J
27.	UNKNOWN				14.97		7	J.
28.	UNKNOWN				15.04		. 9	JJ ·
29.	UNKNOWN				15.14			J
30.	UNKNOWN				15.24	1.	. 4 6	JV
	Jan 1971						Ū	
1	_1					1		1

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	JP430	
50004		

Lab Name: COMPUCHEM

Contract: 68D5

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950550

Sample wt/vol:

500 (g/mL) ML

Lab File ID: GR050550B70

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: ____ decanted: (Y/N)___

Date Extracted: 07/26/99

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 07/30/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 32

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3	UNKNOWN UNKNOWN	15.61 15.87	21	JN JN
4				_
5				-
6.				-
8				
9				-
0.				
1.				_
.2.				
.3 .				_
4.				
5. 6.				-
				-
.8.				-
9.				-
0.				
21.				
22.		• • •		_
23.				_
24. 25.				_
26.				-
27.				-
28.				_
28. 29.				
30.				

JP431 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Matrix: (soil/water) WATER Lab Sample ID: 950551 Sample wt/vol: 500 (g/mL) ML Lab File ID: GH050551A66 Level: (low/med) LOW Date Received: 07/14/99 % Moisture: ____ decanted: (Y/N) ___ Date Extracted:07/15/99 Concentrated Extract Volume: 500(uL) Date Analyzed: 07/20/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: CONCENTRATION OF UG/L CONCENTRATION UNITS: CAS NO. COMPOUND Q. 108-95-2----Phenol 10 g R 111-44-4-----bis(2-Chloroethyl)ether 95-57-8-----2-Chlorophenol 10 | y R 541-73-1-----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene 10 0 10 U 10 U 95-48-7----2-Methylphenol 10 V R 108-60-1----2,2'-oxybis(1-Chloropropane) 10 U 106-44-5-----4-Methylphenol 621-64-7----N-Nitroso-di-n-propylamine_ 67-72-1-----Hexachloroethane 10 U 98-95-3----Nitrobenzene_ 10 U 78-59-1------Isophorone 88-75-5-----2-Nitrophenol 105-67-9-----2,4-Dimethylphenol 10 U 10 VR 111-91-1-----bis(2-Chloroethoxy) methane___ 10 0 10 VR 10 U 91-20-3-----Naphthalene 10 U 106-47-8-----4-Chloroaniline 87-68-3-----Hexachlorobutadiene 10 U 10 U 59-50-7----4-Chloro-3-methylphenol 10 V R 91-57-6-----2-Methylnaphthalene_ 10 U 10 ½ R 25 ¼ R 10 U 25 U 88-74-4----2-Nitroaniline 131-11-3-----Dimethylphthalate____ 10 U 208-96-8-----Acenaphthylene 606-20-2-----2,6-Dinitrotoluene 10 U 10 U 99-09-2----3-Nitroaniline_____ 25 U 83-32-9-----Acenaphthene____

FORM I SV-1

09-27-99 OLMO3.0

JP431 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Matrix: (soil/water) WATER Lab Sample ID: 950551 Sample wt/vol: 500 (g/mL) ML Lab File ID: GH050551A66 Level: (low/med) LOW Date Received: 07/14/99 % Moisture: decanted: (Y/N) Date Extracted: 07/15/99 Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/20/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L # R 51-28-5-----2,4-Dinitrophenol 25 100-02-7----4-Nitrophenol 25 132-64-9-----Dibenzofuran 10 0 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6----4-Nitroaniline 25 U 534-52-1----4,6-Dinitro-2-methylphenol_ 25 \ \mathcal{V} \mathcal{L} \mathcal{L} \\ \mathcal{L} \\ \mathcal{U} \\ \mathcal{L} \\ \mathcal{U} \\ \mathca 86-30-6----N-nitrosodiphenylamine (1) 101-55-3----4-Bromophenyl-phenylether_ 10 U 118-74-1-----Hexachlorobenzene U 10 87-86-5----Pentachlorophenol 5 J 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,37-Dichlorobenzidine_ 10 U 56-55-3-----Benzo (a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 117-84-0-----Di-n-octylphthalate 10 区 205-99-2----Benzo (b) fluoranthene J 2 207-08-9-----Benzo(k) fluoranthene 10 1 50-32-8-----Benzo (a) pyrene 10 3 193-39-5----Indeno (1,2,3-cd) pyrene_ 10 1 53-70-3-----Dibenzo(a,h)anthracene 10 1 191-24-2----Benzo(g,h,i)perylene_ 10 W (1) - Cannot be separated from Diphenylamine FORM I SV-2 OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68D50004

JP431

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950551

Sample wt/vol: 500 (g/mL) ML

Lab File ID:

GH050551A66

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: _____ decanted: (Y/N)____

Date Extracted: 07/15/99

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

I				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	INKNOWN STLOXANE Lab Cont.			=====
1.	CITATONIA DELICIENTE	 5.42		す
2.	UNKNOWN	6.03	4	JŅ
3.	UNKNOWN	6.28	3	JÍ.
4.	UNKNOWN	6.68	4	J₩
-5.	TINKNOWN STIONANT Lab Cont.	7 10		J R
6.	UNKNOWN	7.68		J <i>Ņ</i>
7	UNKNOWN	7.78		
8.				J
9.	UNKNOWN	8.43		J
	UNKNOWN Lab Co. A.	8.68		J∜ૂ
10.	ONKNOWN SILLONAINE	8.94	20	ナ ペ
11. 85-44-9	PHTHALIC ANHYDRIDE	9.24	8	NJ 🔪
<u> 12.</u>	UNKNOWN SILOXANE LAB (BC.	10.52	3	J -R
13.	UNKNOWN	11.04		J <i>N</i>
14.	UNKNOWN	12.15	3	тİ
15.	UNKNOWN	12.45	10	J
16.	BENZOTHIAZOLONE	12.53		
17.				J
18.	UNKNOWN Lab cond.	12.69		J∜
19.	UNKNOWN SILOXANE	13.29		J -R
	UNKNOWN	13.66		J <i>Ņ</i>
20.	UNKNOWN	14.31	5	J
21.	UNKNOWN	14.90	2	J
22.	NAPHTHALIC ANHYDRIDE	15.34		J
23.	UNKNOWN	15.44		J
24.	UNKNOWN	15.81		J
25.	UNKNOWN	16.16		J
26.	UNKNOWN		1 1	- 1
27.		17.30		J
	UNKNOWN	17.43		J
28.	UNKNOWN	18.23		J
29.	UNKNOWN	21.56	12	J
30.	UNKNOWN	22.86		JV
			· - [
		1	11 .	

FORM I SV-TIC

GR050551A66

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

500 (g/mL) ML

JP431RE

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950551

Sample wt/vol: Level: (low/med) LOW Date Received: 07/14/99

Lab File ID:

CONCENTRATION UNITS:

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/22/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/27/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

88-06-2-----2,4,6-Trichlorophenol_

91-58-7----2-Chloronaphthalene

131-11-3-----Dimethylphthalate

88-74-4----2-Nitroaniline

208-96-8-----Acenaphthylene

83-32-9-----Acenaphthene

95-95-4----2,4,5-Trichlorophenol_

606-20-2----2,6-Dinitrotoluene____

99-09-2----3-Nitroaniline_____

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 10 U J 108-95-2----Phenol 111-44-4-----bis(2-Chloroethyl)ether 95-57-8----2-Chlorophenol 10 U 541-73-1----1,3-Dichlorobenzene 106-46-7----1,4-Dichlorobenzene - 10 U 10 U 95-50-1----1,2-Dichlorobenzene 10 U 95-48-7----2-Methylphenol , 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 10 U 106-44-5----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1-----Hexachloroethane 10 U 98-95-3----Nitrobenzene___ 10 U 78-59-1-----Isophorone 88-75-5------Isophorone 10 U 10 U 105-67-9-----2;4-Dimethylphenol 10 U 10 U 10 U 111-91-1-----bis(2-Chloroethoxy) methane 91-20-3----Naphthalene 10 U 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 U 77-47-4-----Hexachlorocyclopentadiene

FORM I SV-1

8-27-99 OLMO3.0

10 U

10 ប្រ

25 U 10 U 25 U

10 U

10 U

10 U

25 U

10 UV

JP431RE Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Lab Sample ID: 950551 Matrix: (soil/water) WATER 500 (g/mL) ML Sample wt/vol: Lab File ID: GR050551A66 (low/med) Date Received: 07/14/99 Level: LOW Date Extracted: 07/22/99 % Moisture: decanted: (Y/N) Concentrated Extract Volume: 500(uL) Date Analyzed: 07/27/99 Dilution Factor: 1.0 Injection Volume: 2.0(uL) GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND 25 UT 51-28-5----2,4-Dinitrophenol_____ 100-02-7----4-Nitrophenol 25 U 10 U 132-64-9-----Dibenzofuran 10 U V 121-14-2----2,4-Dinitrotoluene_ 84-66-2-----Diethylphthalate_ 2 J 7005-72-3----4-Chlorophenyl-phenylether 10 UJ 10 U 86-73-7----Fluorene 25 100-01-6----4-Nitroaniline U 25 U 534-52-1----4,6-Dinitro-2-methylphenol 86-30-6----N-nitrosodiphenylamine (1) 10 U 10 U 101-55-3----4-Bromophenyl-phenylether 118-74-1-----Hexachlorobenzene υΨ 10 87-86-5-----Pentachlorophenol J 11 10 UJ 85-01-8-----Phenanthrene 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 10 U. 84-74-2-----Di-n-butylphthalate___ 10 U 206-44-0-----Fluoranthene 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 91-94-1-----3,3'-Dichlorobenzidine 10 U 10 U 56-55-3-----Benzo (a) anthracene 10 U 218-01-9-----Chrysene 10 | U ₩ 117-81-7-----bis(2-Ethylhexyl)phthalate 6 J 10 छ 117-84-0-----Di-n-octylphthalate 10 B 205-99-2----Benzo (b) fluoranthene 207-08-9----Benzo(k) fluoranthene 10 B 50-32-8-----Benzo (a) pyrene 10 1 10 1 10 B 191-24-2----Benzo(g,h,i)perylene 10 V (1) - Cannot be separated from Diphenylamine

FORM I SV-2

OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP431RE

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950551

Sample wt/vol:

500

(g/mL) ML Lab File ID: GR050551A66

Level:

(low/med)

LOW

Date Received: 07/14/99

% Moisture:

decanted: (Y/N)_

Date Extracted: 07/22/99

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 07/27/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 31

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	TRICHLOROPROPENE (BC) Lab Cond. UNKNOWN SILOXANE UNKNOWN SILOXANE UNKNOWN SILOXANE PHTHALIC ANHYDRIDE UNKNOWN SILOXANE UNKNOWN	# 1	ES1. 54 54 57 31 13 3 5 5 3 5 3 5 3 5 5 3 4 5 5 7 6 5 5 3 3 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3	

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ab	Name:	COMPUCHEM	•	Contract:	68D5000

JP431RE

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950551

GR050551A66

Sample wt/vol: 500 (g/mL) ML

Lab File ID:

Level: (low/med) LOW

Concentrated Extract Volume:

Date Received: 07/14/99

% Moisture: _____ decanted: (Y/N)____

500 (uL)

Date Extracted:07/22/99 Date Analyzed: 07/27/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 31

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	ŖŦ	EST. CONC.	Q
1. 2	UNKNOWN	21.06	3	J / √
3 4				
6 7				
8 9			***************************************	
11				
13. 14. 15.				
16. 17. 18.				
19 20				
21. 22. 23.				
24. 25.				
26. 27. 28.				
29. 30.				

FORM I SV-TIC

JW522

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 949468

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ049468A66

Level: (low/med) LOW Date Received: 07/02/99

% Moisture: decanted: (Y/N)___ Date Extracted:07/06/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

COMPOUND

131-11-3-----Dimethylphthalate

208-96-8-----Acenaphthylene 606-20-2-----2,6-Dinitrotoluene

99-09-2----3-Nitroaniline_83-32-9-----Acenaphthene

GPC Cleanup: (Y/N) N PH: ____

CAS NO.

1	108-95-2Phenol				3	J	- 1	
.	111-44-4bis(2-Chloroethyl)ether					U		٠
-	95-57-82-Chlorophenol				10	U		i
1	541-73-11,3-Dichlorobenzene				10	U	.	
	106-46-71,4-Dichlorobenzene				10	U		İ
	95-50-11,2-Dichlorobenzene				10	U		
	95-48-72-Methylphenol	1.1		•	- 1	J		
	108-60-12,2'-oxybis(1-Chloropropane)				10	U J		ľ
i				i	. 3	J		ĺ
	106-44-54-Methylphenol 621-64-7N-Nitroso-di-n-propylamine		•		10	U		
	67-72-1Hexachloroethane	•			10	U		
	98-95-3Nitrobenzene			• • •	10	U		
	78-59-1Isophorone				10	U		
	88-75-52-Nitrophenol				10			
	105-67-92,4-Dimethylphenol				10	_		
٠.	111-91-1bis(2-Chloroethoxy)methane		• • • • • • • • • • • • • • • • • • • •		10	U		ļ.,
	120-83-22,4-Dichlorophenol	-7-5-1			10	_		
·	120-82-11,2,4-Trichlorobenzene				10	1		
	91-20-3Naphthalene 106-47-84-Chloroaniline				1	J		
•	106-47-84-Chloroaniline				10	_		1
	87-68-3Hexachlorobutadiene				10	•		١.
	59-50-74-Chloro-3-methylphenol				10	_		
	91-57-62-Methylnaphthalene				10	-		
	77-47-4Hexachlorocyclopentadiene				10	U	•	
	88-06-22,4,6-Trichlorophenol				10			
	95-95-42,4,5-Trichlorophenol				25	ì		
	91-58-72-Chloronaphthalene				10	i		
	88-74-42-Nitroaniline		•		25	1 .		
		1			7 0	1 TT		1

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

FORM I SV-1

Of 27-97 OLMO3.0

10 U

10 U

10 U 25 U

JW522 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Matrix: (soil/water) WATER Lab Sample ID: 949468 Sample wt/vol: 1000 Lab File ID: (g/mL) ML GJ049468A66 Level: (low/med) LOW Date Received: 07/02/99 % Moisture: decanted: (Y/N)____ Date Extracted: 07/06/99 Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/18/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N : Hq CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 51-28-5----2,4-Dinitrophenol_ 25 U 100-02-7----4-Nitrophenol 25 U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene____ 10 U 84-66-2-----Diethylphthalate 10 7005-72-3----4-Chlorophenyl-phenylether 10 86-73-7----Fluorene 10 100-01-6-----4-Nitroaniline 25 534-52-1----4,6-Dinitro-2-methylphenol 25 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 25 UJ 85-01-8-----Phenanthrene 10 U 120-12-7----Anthracene_ 10 86-74-8-----Carbazole 10 U 84-74-2----Di-n-butylphthalate____ U 10 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,3'-Dichlorobenzidine____ 10 U 56-55-3-----Benzo(a)anthracene_ 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate_ 10 U 205-99-2----Benzo (b) fluoranthene 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene_ 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2-----Benzo(g,h,i)perylene____ (i) - Cannot be separated from Diphenylamine CPG-27-94 FORM I SV-2 OLM03.0

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JW522

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949468

Sample wt/vol:

1000 (q/mL) ML

1000 (uL)

Lab File ID:

GJ049468A66

Level:

(low/med)

decanted: (Y/N)

% Moisture:

LOW

Date Received: 07/02/99

Date Extracted: 07/06/99

Concentrated Extract Volume:

Date Analyzed: 07/18/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 99-94-5 6.	UNKNOWN UNKNOWN UNKNOWN	7.56 7.80 8.22 8.89 9.14 11.17 11.24 11.40 11.54 11.80 11.85 11.98 12.05 12.17 12.34 12.78 12.89 13.10 13.22 13.29 13.47 13.85 13.97	16 28 16 28 17 88 11 24 21 21 31 88 11 10 10 10 11 11 11 11 11 11 11 11 11	ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב

JW527 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Matrix: (soil/water) WATER Lab Sample ID: 949694 Sample wt/vol: 500 (g/mL) ML Lab File ID: GJ049694A66 Level: (low/med) LOW Date Received: 07/03/99 % Moisture: ____ decanted: (Y/N) Date Extracted:07/06/99 Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/18/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND 108-95-2----Phenol 10 U 111-44-4----bis(2-Chloroethyl)ether 10 U 95-57-8----2-Chlorophenol_ 10 U 541-73-1----1,3-Dichlorobenzene 10 U 106-46-7----1,4-Dichlorobenzene_ 10 U 95-50-1-----1,2-Dichlorobenzene 10 U 95-48-7----2-Methylphenol 10 U 10 UJ 108-60-1----2,2'-oxybis(1-Chloropropane) 106-44-5----4-Methylphenol_ 1 J 621-64-7----N-Nitroso-di-n-propylamine_ 10 U 67-72-1-----Hexachloroethane 10 U 98-95-3----Nitrobenzene 10 U 78-59-1-----Isophorone_ 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol_ 10 U 111-91-1-----bis(2-Chloroethoxy)methane 10 U 120-83-2----2,4-Dichlorophenol 10 U 120-82-1----1, 2, 4-Trichlorobenzene 10 U 91-20-3-----Naphthalene 3 J 106-47-8----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 77-47-4-----Hexachlorocyclopentadiene ט | 10 88-06-2----2,4,6-Trichlorophenol_____95-95-4-----2,4,5-Trichlorophenol_____ 10 T 25 U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 25 U 131-11-3-----Dimethylphthalate 10 U 208-96-8-----Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene 10 U 99-09-2----3-Nitroaniline____ 25 U 83-32-9-----Acenaphthene 10 U

FORM I SV-1

01-17-95 OLMO3.0

JW527 Lab Name: COMPUCHEM Contract: 68D50004

CONCENTRATION UNITS:

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 949694

Lab File ID: GJ049694A66 Sample wt/vol: 500 (g/mL) ML

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: ____ decanted: (Y/N)___ Date Extracted:07/06/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

	CAS NO.	COMPOUND (ug/L or ug/	/Kg) UG/L	Q	
	100-02-7	2,4-Dinitrophenol		5 U	
	132-64-9	Dibenzofuran 2,4-Dinitrotoluene	10	ט ט	
ŀ	84-66-2	Diethylphthalate		2 J	
-	7005-72-3	4-Chlorophenyl-phenylether	10		
-	86-73-7	Fluorene 4-Nitroaniline	10 25	ט ט פוס	
-	534-52-1	4,6-Dinitro-2-methylphenol		5 0	
	86-30-6	N-nitrosodiphenylamine (1)		ט ט	
	118-74-1	4-Bromophenyl-phenylether		ט ט	
	87-86-5	Pentachlorophenol	25		
	85-01-8	Phenanthrene	10		
	86-74-8	Anthracene Carbazole		ט ט ט ט	
	84-74-2	Di-n-butylphthalate	1(ס ס	
1	129-00-0	Fluoranthene	10 10	ט ט ט ט	
	85-68-7	Pyrene Butylbenzylphthalate		ט ט	
	91-94-1	3.3'-Dichlorobenzidine	B	ט ט	
l	218-01-9	Benzo(a) anthracene	10	ט ט ס	
	117-81-7	bis(2-Ethylhexyl)phthalate		ร์ มี	
	117-84-0	Di-n-octylphthalate Benzo(b) fluoranthene	10	3 - 1	•
	207-08-9	Benzo(k)fluoranthene	10		. •
	50-32-8	Benzo(a)pyrene	10	ט ס	
1	193-39-5	Indeno(1,2,3-cd)pyrene	1	ָט ט ט ט	
	191-24-2	Benzo(g,h,i)perylene	10	- -	
	·				
_	i - Caimot be	separated from Diphenylamine	·	08-27-99	
			O	8-27	,

FORM I SV-2

TENTATIVELY IDENTIFIED COMPOUNDS JW527 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 949694

Sample wt/vol: 500 (g/mL) MLLab File ID: GJ049694A66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: _____ decanted: (Y/N)____ Date Extracted:07/06/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/18/99

Injection Volume: Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: Number TICs found: 30 (ug/L or ug/Kg) UG/L

pH:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 10544-50-0 30.	UNKNOWN UNKNOWN SULFUR UNKNOWN UNKNOWN UNKNOWN BENZOTHIAZOLONE UNKNOWN SULFUR, MOL. (S8) UNKNOWN	8.15 10.70 10.89 11.43 11.50 12.54 12.83 12.94 13.06 13.22 13.83 14.04 14.25 14.32 14.41 14.52 14.66 14.90 14.97 15.11 15.24 15.34 15.57 15.88 17.57	67 85 665 215 1366 1874 1986 1446 11416 11416 11416 11416 1149 1149	

Lab Name: COMPUCHEM Contract: 68D50004 JW530

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 949475

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH049475A66

Level: (low/med) LOW Date Received: 07/02/99

% Moisture: ____ decanted: (Y/N)___ Date Extracted:07/06/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/16/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

	. •	
108-95-2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ממממממממממממממממממ
77-47-4Hexachlorocyclopentadiene 88-06-22,4,6-Trichlorophenol 95-95-42,4,5-Trichlorophenol 91-58-72-Chloronaphthalene	10 10 25 10	ט ט ט ט ט ט ט

FORM I SV-1

Of -27-99 OLMO3.0

JW530 Contract: 68D50004 Lab Name: COMPUCHEM Case No.: 27165 SAS No.: SDG No.: JW513 Lab Code: COMPU

Lab Sample ID: 949475 Matrix: (soil/water) WATER

Lab File ID: GH049475A66 Sample wt/vol: 1000 (g/mL) ML

Level: (low/med) Date Received: 07/02/99 LOW

% Moisture: decanted: (Y/N) Date Extracted: 07/06/99

Date Analyzed: 07/16/99 Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

pH:

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: . Q COMPOUND (ug/L or ug/Kg) UG/L CAS NO.

51-28-5----2,4-Dinitrophenol 25 U 25 U 100-02-7----4-Nitrophenol 10 U 132-64-9-----Dibenzofuran 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate_ 10 U 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7----Fluorene 25 I U 100-01-6----4-Nitroaniline 534-52-1-----4,6-Dinitro-2-methylphenol 25 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 10 U 118-74-1----Hexachlorobenzene 25 UJ 87-86-5----Pentachlorophenol 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 10 U 86-74-8-----Carbazole 84-74-2-----Di-n-butylphthalate 10 U 10 U 206-44-0-----Fluoranthene 129-00-0----Pyrene_ 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo (a) anthracene 10 U 218-01-9-----Chrysene 10 U 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate_ 205-99-2----Benzo(b) fluoranthene 10 Ų 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 193-39-5----Indeno(1,2,3-cd)pyrene___ 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(q,h,i)perylene 10 U (1) - Cannot be separated from Diphenylamine

FORM I SV-2

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68D50004 JW530

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949475

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GH049475A66

Level: (low/med) LOW

Date Received: 07/02/99

% Moisture: _____ decanted: (Y/N)____

Date Extracted:07/06/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/16/99

Injection Volume: ; 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER		EST. CONC.	Q
1.			in in
2.			
3.			<u> </u>
4			
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7.			
8.			
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0			

FORM I SV-TIC

ЈW568 Contract: 68D50004

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 949697

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH049697A66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: decanted: (Y/N) Date Extracted:07/06/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/16/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2Phenol	10	U
111-44-4bis(2-Chloroethyl)ether	10	ן ט
95-57-82-Chlorophenol	10	ן טן
541-73-11,3-Dichlorobenzene	10	ו טו
106-46-71,4-Dichlorobenzene	10	ן יטן
95-50-11.2-Dichlorobenzene	10	ט ו
95-48-72-Methylphenol	10	ט
108-60-12,2'-oxybis(1-Chloropropane)	10	UJ
106-44-54-Methylphenol	10	1 - 1
621-64-7N-Nitroso-di-n-propylamine	10	Ιΰ
67-72-1Hexachloroethane	10	lυ
98-95-3Nitrobenzene	10	1 - 1
78-59-1Isophorone	10	1 - 1
88-75-52-Nitrophenol	10	1 1
105-67-92,4-Dimethylphenol	10	1 - 1
111-91-1bis (2-Chloroethoxy) methane	10	1 - 1
120-83-22,4-Dichlorophenol	10	1 - 1
120-82-11,2,4-Trichlorobenzene	10	1
91-20-3Naphthalene	10	
106-47-84-Chloroaniline	10	
87-68-3Hexachlorobutadiene	10	
59-50-74-Chloro-3-methylphenol	10	
91-57-62-Methylnaphthalene	10	
77-47-4Hexachlorocyclopentadiene	10	1 1
88-06-22,4,6-Trichlorophenol	10	1 -
95-95-42,4,5-Trichlorophenol	25	1 -
91-58-72-Chloronaphthalene	10	1 -
88-74-42-Nitroaniline	25	
131-11-3Dimethylphthalate	10	1 -
208-96-8Acenaphthylene	10	
606-20-22,6-Dinitrotoluene	10	1 - 1
99-09-23-Nitroaniline	25	1 :
83-32-9Acenaphthene	10	1 -
1100110110110	1	
	1	l

FORM I SV-1

W-95 OLMO3.0

JW568 Lab Name: COMPUCHEM Contract: 68D50004 SAS No.: Lab Code: COMPU SDG No.: JW513 Case No.: 27165 Matrix: (soil/water) WATER Lab Sample ID: 949697 Sample wt/vol: 500 (q/mL) ML Lab File ID: GH049697A66 Level: (low/med) LOW Date Received: 07/03/99 % Moisture: Date Extracted:07/06/99 decanted: (Y/N) Concentrated Extract Volume: 500(uL) Date Analyzed: 07/16/99 Dilution Factor: 1.0 Injection Volume: 2.0(uL) GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. (ug/L or ug/Kg) UG/L 51-28-5----2,4-Dinitrophenol____ 100-02-7----4-Nitrophenol 25 U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 10 U 84-66-2-----Diethylphthalate 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 100-01-6----4-Nitroaniline 534-52-1----4,6-Dinitro-2-methylphenol___ 86-30-6----N-nitrosodiphenylamine_(1) 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5----Pentachlorophenol 25 U J 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1-----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo(a)anthracene_ 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate__ 10 U

(1) - Cannot be separated from Diphenylamine

117-84-0-----Di-n-octylphthalate

50-32-8-----Benzo (a) pyrene

205-99-2----Benzo (b) fluoranthene

193-39-5----Indeno(1,2,3-cd)pyrene_

53-70-3-----Dibenzo(a,h)anthracene

191-24-2----Benzo(g,h,i)perylene_

207-08-9-----Benzo(k) fluoranthene

16,27-7 OTMO3.0

10 U

10 U

10 U

10 U

10 U.

10 U

FORM I SV-2

1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED

COMPOUNDS	JW568
Contract: 68D50004	

Lab Name: COMPUCHEM

Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 949697

Sample wt/vol:

Lab Code: COMPU

500 (g/mL) ML

Lab File ID: GH049697A66

Level: (low/med)

LOW

Date Received: 07/03/99

% Moisture:

decanted: (Y/N)

Date Extracted:07/06/99

Concentrated Extract Volume:

Date Analyzed: 07/16/99

Injection Volume:

2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

500 (uL)

Number TICs found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC) Lab , Cont.	7.01	8	JN JB-R
3	UNKNOWN (BC) LAB COM.	7.96 9.40	2	# R
4.	UNKNOWN Lab Cond.	9.73 10.15	3	JN R
-6. 101 84 8	DIPHENYL ETHER	10.27	2	NJB R
7.	UNKNOWN RENZODHENONE LAB Conf.	$\frac{11.45}{12.33}$	2	J/V NJB-R
9.	UNKNOWN	13.64 15.83	2 8	J.W UN
10. 10544-50-0 11.	SULFUR, MOL. (S8)	15.83	0	MO
12.				
14.				
15. 16.				
17.				
19.				
20				
22. 23.				
24.				
25. 26.				<u> </u>
27. 28.				
29.				
30				

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

JW569
Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case: No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 949698

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ049698A66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/06/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

108-95-2Phenol		10 U
111-44-4bis(2-Chloroethyl)ether		10 U
95-57-82-Chlorophenol		10 0
541-73-11,3-Dichlorobenzene		10 U
106-46-71,4-Dichlorobenzene		10 U
95-50-11,2-Dichlorobenzene		10 U
95-48-72-Methylphenol	•	10 U_
108-60-12,2'-oxybis(1-Chloropropane)		ל ט 10
106-44-54-Methylphenol		10 U
621-64-7N-Nitroso-di-n-propylamine		10 U
67-72-1Hexachloroethane		10 U
98-95-3Nitrobenzene		10 U
78-59-1Isophorone		10 U
88-75-52-Nitrophenol		10 U
105-67-92,4-Dimethylphenol		10 U
111-91-1bis(2-Chloroethoxy)methane		10 U
120-83-22,4-Dichlorophenol		10 U
120-82-11,2,4-Trichlorobenzene		10 U
91-20-3Naphthalene	·	10 U
106-47-84-Chloroaniline		10 U
87-68-3Hexachlorobutadiene	1.00	10 U
59-50-74-Chloro-3-methylphenol		10 U
91-57-62-Methylnaphthalene		10 U
77-47-4Hexachlorocyclopentadiene		10 U
88-06-22,4,6-Trichlorophenol		10 ប
95-95-42,4,5-Trichlorophenol		25 U.
91-58-72-Chloronaphthalene		10 U
88-74-42-Nitroaniline		25 U
131-11-3Dimethylphthalate		10 U
208-96-8Acenaphthylene		10 U
606-20-22,6-Dinitrotoluene		10 U
99-09-23-Nitroaniline	40	25 U
83-32-9Acenaphthene		10 U
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FORM I SV-1

C/ 59 OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 949698

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ049698A66

Level: (low/med) LOW Date Received: 07/03/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/06/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	(ug/L or ug	/Kg)	UG/L		Ç	2
100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3- 86-73-7 100-01-6 534-30-6 101-55-3 118-74-1 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7- 117-84-0 207-08-9 117-84-0 207-08-9 117-84-0 207-08-9 117-84-0 218-39-5 193-39-5 191-24-2	2,4-Dinitrophen4-Nitrophenol2,4-Dinitrotolu2,4-Dinitrotolu2,4-DinitrotoluDiethylphthalat4-Chlorophenyl4-Nitroaniline4,6-Dinitro-2-mN-nitrosodiphen4-Bromophenyl-pHexachlorobenzePentachlorophenPhenanthrenePhenanthreneCarbazoleDi-n-butylphthaPyreneButylbenzylphth3,3'-DichlorobeBenzo(a) anthrac	methylphenol mylamine (1) phenylether methylphenol mylamine (1) phenylether malate malate malate malate malate malate mil			25 10 10 10 25 10 10 25 10 10 10 10 10 10 10 10 10 10 10 10 10		7-61
					11.4	<u>-</u>	7 C1

FORM I SV-2

813

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

COLL COLL	<i>-</i>	- 1		
		١	JW569	٠.
Contract:	68D50004	-		

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Name: COMPUCHEM

Lab Sample ID: 949698

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GJ049698A66

Level: (low/med) LOW

Date Received: 07/03/99

% Moisture: decanted: (Y/N)

Date Extracted: 07/06/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/18/99

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME RT EST. CONC.	Q
 L.	UNKNOWN 9.12	4 J <i>N</i>
2		
3.		
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		_
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		-

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950023

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH050023B64

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: ____ decanted: (Y/N) ___ Date Extracted:07/12/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	(ug/L or ug/K	g) UG/L	· Q
95-57-8 541-73-1 106-46-7 95-50-1 95-48-7 108-60-1 621-64-7 621-64-7 98-95-3 78-59-1 88-75-5 105-67-9 111-91-1 120-83-2 120-83-2 120-83-2 91-20-3 91-20-3 91-57-6 91-57-6 91-58-7	Phenolbis(2-Chloroe2-Chloropheno1,3-Dichlorob1,4-Dichlorob1,2-Dichlorob2,2'-oxybis(14-MethylphenoNitroso-diHexachloroethIsophorone2,4-Dimethylpbis(2-Chloroe2,4-Dichlorop1,2,4-TrichloNaphthalene4-ChloroaniliHexachlorobut4-Chloro-3-me2,4,5-Trichlo2,4,5-Trichlo2,4,5-Trichlo2,6-Dinitroto2,6-Dinitroto3-NitroanilirAcenaphthene	enzene enzene enzene enzene enzene l -Chloropropane) l n-propylamine ane ehenol ethoxy) methane chenol erobenzene ne adiene ethylphenol chalene elopentadiene erophenol erophenol erophenol ende elate ele elate ele elate ele elate ele elate ele elate ele elate ele elate ele elate ele elate ele elate ele elate ele elate	10 10 10 10 10 10 10 11 11 11 11 11 12 12 11 12 12 12 12 12	0 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U

CONCENTRATION UNITS:

FORM I SV-1

CP -99

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

JW576

Contract: 68D50004 Lab Name: COMPUCHEM SAS No.: SDG No.: JW513 Lab Code: COMPU Case No.: 27165 Lab Sample ID: 950023 Matrix: (soil/water) WATER

Lab File ID: GH050023B64 1000 (q/mL) ML Sample wt/vol: Level: (low/med) Date Received: 07/09/99 LOW

Date Extracted: 07/12/99 % Moisture: decanted: (Y/N)

Date Analyzed: 07/18/99 Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 Injection Volume: 2.0 (uL)

GPC Cleanup: (Y/N) N : Hq

> COMPOUND CAS NO. (ug/L or ug/Kg) UG/L ·Q 51-28-5----2;4-Dinitrophenol 25 U 100-02-7----4-Nitrophenol 25 U 10 U 132-64-9-----Dibenzofuran 121-14-2----2,4-Dinitrotoluene 10 U 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 25 U 100-01-6-----4-Nitroaniline 534-52-1----4,6-Dinitro-2-methylphenol 25 U 10 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 87-86-5----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 10 U 86-74-8-----Carbazole 10 0 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 129-00-0-----Pyrene 10 U 10 U 85-68-7-----Butylbenzylphthalate 91-94-1----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo (a) anthracene 10 U 10 U 218-01-9-----Chrysene 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2----Benzo(b) fluoranthene 10 U 207-08-9----Benzo(k)fluoranthene 50-32-8-----Benzo (a) pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene_ 53-70-3-----Dibenzo(a,h)anthracene_ 10 U 10 U 10 U 191-24-2----Benzo(g,h,i)perylene (1) - Cannot be separated from Diphenylamine

CONCENTRATION UNITS:

FORM I SV-2

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JW576	
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Lab	Name:	COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.:

Contract: 68D50004

SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950023

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

GH050023B64

Level: (low/med)

rom ·

Date Received: 07/09/99

% Moisture: _____

decanted: (Y/N)____

Date Extracted:07/12/99

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 07/18/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _

Number TICs found: 4

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 10544-50-0 4.	UNKNOWN UNKNOWN SULFUR, MOL. (S8) UNKNOWN	6.63 10.32 15.71 25.32	4 2 3 2	JN JN JN JN
6. 7. 8.				
0. 1. 2.				
4. 5. 6.				
8. 9. 0. 1.				
2. 3. 4.				
5. 6. 7. 8.				
99. 30.				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

JW581

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950024

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH050024B64

Level: (low/med) LOW Date Received: 07/09/99

% Moisture: ____ decanted: (Y/N)___ Date Extracted:07/12/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

10 0 108-95-2----Phenol 111-44-4----bis(2-Chloroethyl)ether 10 | U 10 U 95-57-8----2-Chlorophenol 10 U 541-73-1----1,3-Dichlorobenzene 106-46-7----1,4-Dichlorobenzene 10 U 10 U 95-50-1----1,2-Dichlorobenzene 10 U 95-48-7----2-Methylphenol 108-60-1----2,2'-oxybis(1-Chloropropane) 10 U 10 U 106-44-5----4-Methylphenol 10 U 621-64-7----Nitroso-di-n-propylamine__ 10 U 67-72-1-----Hexachloroethane 98-95-3-----Nitrobenzene 10 U 10 U 78-59-1-----Isophorone 88-75-5-----2-Nitrophenol
105-67-9-----2,4-Dimethylphenol 10 U 10 U . 10 U 111-91-1-----bis(2-Chloroethoxy)methane 10 U 120-83-2----2,4-Dichlorophenol 10 U 120-82-1----1,2,4-Trichlorobenzene 10 U 91-20-3-----Naphthalene 10 U 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol_95-95-4-----2,4,5-Trichlorophenol_ 10 U 26 U 10 U 91-58-7----2-Chloronaphthalene 26 U 88-74-4----2-Nitroaniline 10 U 131-11-3-----Dimethylphthalate 208-96-8-----Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene____ 10 U 99-09-2----3-Nitroaniline_____ 26 U 10 U 83-32-9-----Acenaphthene

FORM I SV-1

6-27-99 OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

JW581 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Matrix: (soil/water) WATER Lab Sample ID: 950024 Sample wt/vol: 950 (g/mL) ML Lab File ID: GH050024B64 Level: (low/med) LOW Date Received: 07/09/99 % Moisture: decanted: (Y/N)____ Date Extracted:07/12/99 Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/18/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND 51-28-5----2,4-Dinitrophenol____ 26 U 100-02-7----4-Nitrophenol_____ 26 U 132-64-9-----Dibenzofuran_ 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2----Diethylphthalate 3 J 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7----Fluorene 10 100-01-6----4-Nitroaniline 26 534-52-1-----4,6-Dinitro-2-methylphenol_ 26 U 86-30-6----N-nitrosodiphenylamine_(1)___ 10 U 101-55-3----4-Bromophenyl-phenylether____ 10 U 10 U 118-74-1----Hexachlorobenzene 87-86-5-----Pentachlorophenol 26 U 85-01-8-----Phenanthrene_ 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate____ 10 U 206-44-0-----Fluoranthene__ 10 U 129-00-0------Pyrene 85-68-7------Butylbenzylphthalate 91-94-1-----3,3'-Dichlorobenzidine 10 U 10 U 10 U 56-55-3----Benzo (a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate_ 10 U 117-84-0------Di-n-octylphthalate_ 205-99-2-----Benzo(b)fluoranthene 10 U 10 U 10 | U 207-08-9-----Benzo (k) fluoranthene 50-32-8-----Benzo (a) pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(g,h,i)perylene 10 U (1) - Cannot be separated from Diphenylamine FORM I SV-2 OLM03.0

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JW581 Contract: 68D50004

Lab Name: COMPUCHEM

Lab Code: COMPU

Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950024

Sample wt/vol: 950 (g/mL) ML

Lab File ID: GH050024B64

Level: (low/med)

LOW

Date Received: 07/09/99

% Moisture:

decanted: (Y/N)____

Date Extracted: 07/12/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/18/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 65-85-0 3. 4. 5. 6. 7. 8. 9.	BENZOIC ACID UNKNOWN UNKNOWN UNKNOWN UNKNOWN METHYLBENZENESULFONAMIDE METHYLBENZENESULFONAMIDE UNKNOWN CARBOXYLIC ACID	5.93 8.44 8.76 10.50 11.18 11.38 12.62 12.94 14.86	2 13 4 6 3 4 3 2	那- K NJ J J J J J J J J J J J J J J J J J J
10. 11. 12.	UNKNOWN	15.54	2	
13. 14. 15.				
16. 17. 18. 19.				
20. 21.				
23. 24. 25.				
26. 27. 28.				***************************************
29. 30.				

JP425 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Matrix: (soil/water) WATER Lab Sample ID: 950547 Sample wt/vol: 1010 (g/mL) ML Lab File ID: % Moisture: _____ decanted: (Y/N)___ Date Received: 07/14/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/16/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 08/09/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q CAS NO. COMPOUND 0.050 0.050 U 319-84-6-----alpha-BHC 319-85-7-----beta-BHC 319-85-7-----beta-BHC 319-86-8-----delta-BHC 58-89-9-----gamma-BHC (Lindane)_____ 0.050 U 76-44-8-----Heptachlor____ 0.050 U 309-00-2-----Aldrin 0.050 U 1024-57-3-----Heptachlor epoxide 0:050 U 959-98-8-----Endosulfan I_____ 0.050 U 60-57-1-----Dieldrin 0.099 0 72-55-9-----4,4'-DDE_____ 0.099 U 72-20-8-----Endrin 33213-65-9----Endosulfan II 0.099 U 0.099 U 72-54-8-----4,4'-DDD 0.099 U 1031-07-8-----Endosulfan sulfate____ 0.099 U 50-29-3-----4,4'-DDT 0.099 U 0.50 U 0.099 U 0.099 U 72-43-5-----Methoxychlor___ 53494-70-5----Endrin ketone_____ 7421-93-4----Endrin aldehyde 5103-71-9-----alpha-Chlordane 5103-74-2----gamma-Chlordane 0.050 U 8001-35-2----Toxaphene 5.0 U 12674-11-2----Aroclor-1016____ 0.99 U 11104-28-2----Aroclor-1221_____ 2.0 U 11141-16-5-----Aroclor-1232 53469-21-9-----Aroclor-1242 0.99 U 0.99 U 12672-29-6-----Aroclor-1248 0.99 0 11097-69-1-----Aroclor-1254__ 0.99 U 11096-82-5----Aroclor-1260 0.99 U 8-30-99

FORM I PEST

OLMO3.0

1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM	•	Contract: 68D5	0004	JP427	
Lab Code: COMPU	Case No.: 27165	SAS No.:	SDG	No.: JW513	•
Matrix: (soil/water) WATER	Lab S	ample ID:	: 950549	
Sample wt/vol:	1020 (g/mL) ML	Lab F	ile ID:		
% Moisture:	decanted: (Y/N)	Date	Received:	: 07/14/99	
Extraction: (SepF/	Cont/Sonc) SEPF	Date	Extracted	1:07/16/99	•
Concentrated Extrac	t Volume: 10000	(uL) Date	Analyzed:	: 08/09/99	`
Injection Volume:	2.0 (uL)	Dilut	ion Facto	or: 1.0	
GPC Cleanup: (Y/N) N pH:	_ Sulfu	r Cleanur	o: (Y/N) N	
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug			<u> </u>
319-85-7 319-86-8 58-89-9 76-44-8 309-00-2 1024-57-3 959-98-8 72-55-9 72-55-9 72-20-8 33213-65-9 72-54-8 1031-07-8 50-29-3 5103-74-2 5103-74-2 8001-35-2 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Heptachlor epo Endosulfan I_ Dieldrin 4,4'-DDE Endrin Endosulfan II_ 4,4'-DDD	lfateieie		0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.098	

CP,30-91

FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

JP430 Contract: 68D50004 Lab Name: COMPUCHEM Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Lab Sample ID: 950550 Matrix: (soil/water) WATER Sample wt/vol: 500.0 (g/mL) ML Lab File ID: % Moisture: ____ decanted: (Y/N)___ Date Received: 07/14/99 Date Extracted:07/16/99 Extraction: (SepF/Cont/Sonc) SEPF Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/09/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

CF .30.99

FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER

Lab Sample ID: 950551

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID:

Moisture: decanted: (Y/N) Date Received: 07/14/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/16/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

				1 1 1
319-84-6alpha-BHC		• .	0.050	
319-85-7beta-BHC		_	0.050	
319-86-8delta-BHC		0.050	0.0083	
58-89-9gamma-BHC (Line	iane)	1		
76-44-8Heptachlor		,	0.050	U
309-00-2Aldrin		•	0.050	Ū
1024-57-3Heptachlor epox	cide		0.050	U
959-98-8Endosulfan I		- 10	0.050	Ŭ :
60-57-1Dieldrin		0.10	0.011	JPU
72-55-94,4'-DDE	The state of the s	0-01	0.013	₽U
72-20-8Endrin		0.10		Ū
33213-65-9Endosulfan II		0,70	0.10	U
72-54-84,4'-DDD		0.10	0.0083	
1031-07-8Endosulfan sul	Fate		0.10	
50-29-34,4'-DDT		0.10	0.0080	
72-43-5Methoxychlor		0	0.50	5
53494-70-5Endrin ketone			0.10	i .
7421-93-4Endrin aldehydd	5		0.10	
			0.050	
5103-71-9alpha-Chlordan	5		0.050	
5103-74-2gamma-Chlordan	=		5.0	
8001-35-2Toxaphene			1.0	
12674-11-2Aroclor-1016_			2.0	
11104-28-2Aroclor-1221			1.0	
11141-16-5Aroclor-1232				
53469-21-9Aroclor-1242	Carlo Wasses		1.0	1 -
12672-29-6Aroclor-1248_			1.0	1
11097-69-1Aroclor-1254			1.0	1
11096-82-5Aroclor-1260			1.0	U
and the second of the second o		1		.
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CP 30.95

Lab Na	ame: COMPUCHEM		Contract:	68D50004	JW522
Lab Co	ode: COMPU (Case No.: 27165	SAS No.:	SDG	No.: JW513
Matrix	x: (soil/water)	WATER	L	ab Sample ID:	949468
Sample	e wt/vol:	1000 (g/mL) ML	I	Lab File ID:	
% Mois	sture:	decanted: (Y/N)_	Γ	Date Received:	07/02/99
Extra	ction: (SepF/Co	ont/Sonc) SEPF	· I	Date Extracted	1:07/06/99
Concer	ntrated Extract,	Volume: 10000	(uL) I	Date Analyzed:	08/09/99
Inject	tion Volume:	2.0 (uL)	Γ	Dilution Facto	or: 1.0
GPC C	leanup: (Y/N)	N pH:	_	Sulfur Cleanur	o: (Y/N) N
·	CAS NO.	COMPOUND		rration Units: or ug/Kg) UG/I	
	76-44-8 309-00-2 1024-57-3 959-98-8 60-57-1 72-55-9 72-20-8 33213-65-9 72-54-8	beta-BHCdelta-BHCgamma-BHC (Line	oxide	0.10	0.050 V R 0.11 P 0.050 V O 0.050 V O 0.050 V O 0.050 V O 0.050 V O 0.10 U O

72-43-5-----Methoxychlor

8001-35-2-----Toxaphene

12674-11-2----Aroclor-1016

11104-28-2----Aroclor-1221 11141-16-5----Aroclor-1232

53469-21-9----Aroclor-1242

12672-29-6-----Aroclor-1248

11097-69-1----Aroclor-1254 11096-82-5----Aroclor-1260

53494-70-5----Endrin ketone

7421-93-4----Endrin aldehyde 5103-71-9----alpha-Chlordane

5103-74-2----gamma-Chlordane

8-30-49

0.50 U

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FORM I PEST

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

JW527

Contract: 68D50004 Lab Name: COMPUCHEM

Case No.: 27165 SAS No.: SDG No.: JW513 Lab Code: COMPU

Lab Sample ID: 949694 Matrix: (soil/water) WATER

Lab File ID: Sample wt/vol: 1000 (g/mL) ML

% Moisture: decanted: (Y/N)____ Date Received: 07/03/99

Date Extracted:07/06/99 Extraction: (SepF/Cont/Sonc) SEPF

Concentrated Extract Volume: 10000(uL) Date Analyzed: 08/09/99

Dilution Factor: 1.0 Injection Volume: 2.0 (uL)

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

		* .		
319-84-6	alpha-BHC		0.050 x R	;
319-85-7		eta e 🔏 🦂	0.050 7	•
319-86-8			0.050 1	
58-89-9	gamma-BHC (Lindane)		0.050	
76-44-8	Heptachlor	·	0.050 V	
309-00-2			0.050 7	
	Heptachlor epoxide		0.050 0	
050-00-0	Endosulfan I		0.050 ₺ 🕏	
	Dieldrin		0.10 U	
72-55-9		•	0.61 PB 3	N
72-20-8			0.10 0	
	Endrin		0.10 U	
			1.3 PBJ	(A)
1001 07 0	4,4'-DDD Endosulfan sulfate	0.10	0.061 JP4	
		0.70	0.10 U	
50-29-3			0.50 U	. •
	Methoxychlor		0.10 U	
	Endrin ketone			
7421-93-4	Endrin_aldehyde			
5103-71-9	alpha-Chlordane		0.050 U	٠
	gamma-Chlordane		0.050 0	
8001-35-2			5.0 0	
	Aroclor-1016		1.0 p R	
	Aroclor-1221		2.0 7	
	Aroclor-1232		1.0 0	
	Aroclor-1242		1.0 0	
12672-29-6	Aroclor-1248		ī.o v ↓	
11097-69-1	Aroclor-1254		1.0 U	
11096-82-5	Aroclor-1260		1.0 U	
$(\mathcal{A}_{\mathcal{A}}}}}}}}}}$				

PESTICIDE ORGANICS ANALYSIS DATA SHEET

JW530 Contract: 68D50004 Lab Name: COMPUCHEM Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Lab Sample ID: 949475 Matrix: (soil/water) WATER

1000 (g/mL) ML Lab File ID: Sample wt/vol:

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/02/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/06/99

Date Analyzed: 08/09/99 Concentrated Extract Volume: 10000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

		<u> </u>	
319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor 309-00-2Aldrin	*	0.050 0.050 0.050 0.050 0.050 0.050	U U
1024-57-3Heptachlor epoxide		0.050	_
959-98-8Endosulfan I	210	0.050	
60-57-1Dieldrin	0.70	0.011	
72-55-94,4'-DDE		0.036	IJ\$
72-20-8Endrin	0.70	0.0038	
33213-65-9Endosulfan II		0.10	U
72-54-84,4'-DDD		0.040	, ,
1031-07-8Endosulfan sulfate	0	0.10	U
50-29-34,4'-DDT	0.10	-0.013	
72-43-5Methoxychlor		0.50	1 .
53494-70-5Endrin ketone		0.10	
7421-93-4Endrin aldehyde		0.10	
5103-71-9alpha-Chlordane		0.050	i -
5103-74-2gamma-Chlordane		0.050	1
8001-35-2Toxaphene		5.0 1.0	U U
12674-11-2Aroclor-1016		2.0	U .
11104-28-2Aroclor-1221		1.0	τ
11141-16-5Aroclor-1232		1.0	. –
53469-21-9Aroclor-1242	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		i -
12672-29-6Aroclor-1248		1.0 1.0	[U U
11097-69-1Aroclor-1254			1 -
11096-82-5Aroclor-1260		1.0	U
	l		l <u></u>

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FORM I PEST

1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

JW568
Contract: 68D50004

Contract: 68D50004 Lab Name: COMPUCHEM Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Lab Sample ID: 949697 Matrix: (soil/water) WATER Sample wt/vol: 1000 (g/mL) ML Lab File ID: % Moisture: ____ decanted: (Y/N) ___ Date Received: 07/03/99 Date Extracted: 07/06/99 Extraction: (SepF/Cont/Sonc) SEPF Concentrated Extract Volume: 10000(uL) Date Analyzed: 08/09/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND · Q (ug/L or ug/Kg) UG/L 319-84-6----alpha-BHC 0.050 U 0.050 U 319-85-7-----beta-BHC 319-86-8-----delta-BHC 58-89-9-----gamma-BHC (Lindane)_____ 0.050 U 0.050 U 0.050 U 76-44-8-----Heptachlor_____ 0.050 U 309-00-2----Aldrin 0.050 U 0.050 U 1024-57-3-----Heptachlor epoxide 0.10 U 0.10 U 72-55-9-----4,4'-DDE 0.10 U 72-20-8-----Endrin 33213-65-9----Endosulfan II 0.10 U 0.10 U 72-54-8-----4,4'-DDD 1031-07-8-----Endosulfan sulfate 0.10 U 50-29-3-----4,4'-DDT 0.10 U 0.50 U 72-43-5-----Methoxychlor_ 53494-70-5----Endrin ketone 0.10 U 0.10 U 0.050 U

CP 99

0.050 U

5.0 U 1.0 U 2.0 U

1.0 U

1.0 U

1.0 U

1.0 U

OLM03.0

5103-74-2----gamma-Chlordane____

8001-35-2-----Toxaphene 12674-11-2----Aroclor-1016

11104-28-2----Aroclor-1221

11141-16-5-----Aroclor-1232_ 53469-21-9-----Aroclor-1242_

12672-29-6----Aroclor-1248

11097-69-1----Aroclor-1254

11096-82-5----Aroclor-1260

JW569 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513 Lab Sample ID: 949698 Matrix: (soil/water) WATER Lab File ID: Sample wt/vol: 1000 (g/mL) ML % Moisture: ____ decanted: (Y/N)___ Date Received: 07/03/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/06/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 08/09/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: __ Sulfur Cleanup: (Y/N) N CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L 319-84-6-----alpha-BHC 319-85-7-----beta-BHC 319-86-8-----delta-BHC 0.050 U 0.050 0-0052 JEU 0.050 U 58-89-9-----gamma-BHC (Lindane) 0.050 U 0.050 U 309-00-2-----Aldrin 0.050 U 1024-57-3-----Heptachlor epoxide 0.050 U 959-98-8-----Endosulfan I 0.050 U 60-57-1-----Dieldrin 0.10 U 72-55-9-----4,4'-DDE__ 0.10 U 0.10 0.10 U 0.10 U 0.10 U 0.10 U 0.10 U 0.10 U 72-20-8-----Endrin 72-54-8-----4,4'-DDD 1031-07-8-----Endosulfan sulfate 50-29-3-----4,4'-DDT 72-43-5-----Methoxychlor 53494-70-5----Endrin ketone 72-43-5-----Methoxychlor 0.10 U 7421-93-4----Endrin aldehyde_ 0.10 U 5103-71-9-----alpha-Chlordane 5103-74-2----gamma-Chlordane 0.050 U 0.050 U 8001-35-2-----Toxaphene 5.0 U 12674-11-2----Aroclor-1016 1.0 U 11104-28-2----Aroclor-1221 2.0 U .11141-16-5----Aroclor-1232 1.0 U 53469-21-9----Aroclor-1242 1.0 U 12672-29-6-----Aroclor-1248

1.0 0

1.0 U

1.0 U

FORM I PEST

11097-69-1-----Aroclor-1254

11096-82-5----Aroclor-1260

PESTICIDE ORGANICS ANALYSIS DATA SHEET

JW576
Contract: 68D50004

Lab Name: COMPUCHEM Contra

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW513

Matrix: (soil/water) WATER Lab Sample ID: 950023

Sample wt/vol: 940.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/09/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 08/08/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L C

	· · · · · · · · · · · · · · · · · · ·
319-84-6	0.053 U U U U U U U U U U U U U U U U U U U
5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 8001-35-2Toxaphene	0.053 U 5.3 U 1.1 U

CA 99

FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

JW581 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No : JW513 Matrix: (soil/water) WATER Lab Sample ID: 950024 Sample wt/vol: 1000 (g/mL) ML Lab File ID: % Moisture: decanted: (Y/N)____ Date Received: 07/09/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 07/12/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 08/08/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/L

Ug-30-99



ecology and environment, inc.

International Specialists in the Environment

4500 First Interstate Center, 999 Third Avenue Scattle, Washington 98104 Tel: (200) 624-9537, Fax: (200) 621-9832

MEMORANDUM

DATE:

September 24, 1999

TO:

Mark Woodke, Project Manager, E & E, Seattle, WA

FROM:

Leatta Dahlhoff, Chemist, E & E, Seattle, WA

SUBJ:

Organic Data Quality Assurance Summary Check,

Wenatchee Brownfield, Wenatchee, Washington

REF:

TDD: 98-11-0007

PAN: CK0701SIDM

The data quality assurance summary review of 20 soil samples collected from the Wenatchee Brownfield site in Wenatchee, Washington, has been completed. Samples were analyzed for Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), and Pesticides/PCBs in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (revision OLM03.1). The analyses were performed by CompuChem of Cary, North Carolina.

There were no discrepancies noted in the review.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10

1200 Sixth Avenue Seattle, Washington 98101

Reply To

Attn Of:

OEA-095

September 21, 1999

MEMORANDUM

Subject: Data Validation Report for Volatile Organic Compounds

(VOCs), Semi-Volatile Organic Compounds (SVOCs) and

Pesticide/Polychlorinated Biphenyls (Pest/PCBs) Analysis of Samples from Wenatchee Brownfields

Case: 27165

SDGs: JP410

From:

Sinna Grepo-Grove, The

Quality Assurance & Data Unit, OEA

To:

oanne Labaw, Site Manager, ECL

CC:

Bruce Woods, Region 10 CLP TPO

Tracy Trople, Ecology and Environment

The quality assurance (QA) review of 20 soil samples collected from the above referenced site has been completed. These samples were analyzed for VOCs, SVOCs and pest/PCBs in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (revision OLMO3.1). The analyses were performed by Compuchem of Cary, NC. The data validations were performed by the Environmental Services Assistance Team (ESAT) and the USEPA Manchester Environmental Laboratory, Port Orchard, WA.

The laboratory had to be contacted to obtain additional information and data in order to complete the review. There were no significant problems encountered with the data. All of the samples were analyzed in accordance with the technical requirements specified in the SOW. The data, as qualified, can be used for all purposes.

Attached are the validation memos for the above mentioned case and sample delivery groups (SDGs).

ENVIRONMENTAL SERVICES ASSISTANCE TEAMS - WESTERN ZONE

LOCKHEED MARTIN TECHNOLOGY SERVICES GROUP ESAT Region 10 Lockheed Martin 7411 Beach Drive East Port Orchard, WA 98366 Phone (360) 871-8723

DELIVERABLE NARRATIVE

DATE:

September 15, 1999

To:

Ginna Grepo-Grove, WAM, USEPA, Region 10

THROUGH:

Dave Dobb, Team Manager, ESAT Region 10

FROM:

Chris Pace, Task Lead, ESAT Region 10

SUBJECT:

Data validation report for the volatile organic (VOA), semi-volatile organic (SVOA) and

pesticide/polychlorinated biphenyl (Pest/PCB) analysis of samples from the Wenatchee Brownfields

Site. Case: 27165 SDG: JP410

DOC:

ESW10-3-1420

PWO:

ESW72023

TDF: WA:

10-99-3-10

3644

CC:

Gerald Dodo, RPO, USEPA, Region 10

Project File

The quality assurance (QA) review of 20 soil samples collected from the above referenced site has been completed. These samples were analyzed for VOA (8), SVOA (8) and Pest/PCB (19) in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (OLM03.2) by COMPUCHEM of Cary, NC.

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control Specifications outlined in the USEPA CLP SOW for Organic Analysis (OLM03.2), the USEPA CLP National Functional Guidelines for Organic Data Review (2/94) and the Region 10 Guidelines for CLP Data Review.

The conclusions presented herein are based on the information provided for the review.

Holding Time

All samples were preserved with ice prior to shipment. All of the samples met the method and technical (40 CFR 136) required holding times for all analyses with the following exceptions:

SVOA sample JP428 was extracted 20 days from the collection date and therefore, associated target analytes were qualified as estimated, "J/UJ".

The Holding Times Summary listing the pertinent collection, extraction, and analysis dates is attached at the end of this validation report.

Instrument Performance - Acceptable

All of the GC and GC/MS systems met the SOW specified technical acceptance criteria prior to sample analyses, i.e., GC/MS performance checks, GC performance checks, retention times, response factors, and calibrations. The systems remained stable throughout the course of analyses. Instrument blanks were all clean and there were no

Case No.: 27165 SDG: JP410 ESW10-3-1420 Page 2 of 7

indications of carry-over.

Initial Calibrations

Two VOA, four SVOA and two Pest/PCB initial calibrations were performed. The initial calibrations met the SOW technical acceptance criteria with the following exceptions:

- VOA Initial Calibration on 6/28/99, instrument 55 the %RSD for 2-hexanone was 31.4. The lowest calibration level was non-linear. Associated samples were qualified as estimated, "J/UJ", in the non-linear portion of the calibration curve.
- VOA Initial Calibration on 7/16/99, instrument 51 the %RSDs for acetone and 2-butanone were 38.5 and 47.4 respectively. The lowest calibration levels were non-linear. Associated samples were qualified as estimated, "J/UJ", in the non-linear portion of the calibration curve.
- SVOA Initial Calibration on 7/23/99, instrument 66 the %RSD for 3,3'-dichlorobenzidine was 33.1. The lowest calibration level was non-linear. Associated samples were qualified as estimated, "J/UJ", in the non-linear portion of the calibration curve.
- SVOA Initial Calibration on 7/26/99, instrument 66 the %RSD for 3,3'-dichlorobenzidine was 45.5. The
 lowest calibration level was non-linear. Associated samples were qualified as estimated, "J/UJ", in the nonlinear portion of the calibration curve.

Continuing Calibration Verification (CCVs) Standards

All of the CCVs met the criteria for frequency of analysis, the minimum response factor, the retention time and the percent differences (%Ds) criteria with the following exceptions:

 The %Ds for the following VOA compounds exceeded the QC limits and the associated results were qualified accordingly:

Date /Time of Analysis	Inst. i.d.	Compound	%Д	Qualifier Detect/Non-detect
7/16/99 (14:22)	51	2-butanone	-27.2	J/UJ
7/20/99 (13:45)	51	4-methyl-2-pentanone 2-hexanone	30.7 25.8	J/none none
7/22/99 (20:56)	55	acetone carbon disulfide 1,1-dichloroethene 2-butanone 4-methyl-2-pentanone 2-hexanone	-53.8 -27.8 -25.2 -55.8 -48.5 -56.6	J/UJ J/UJ none J/UJ J/UJ J/UJ

ESW10-3-1420 Page 3 of 7

The %Ds for the following SVOA compounds exceeded the QC limits and the associated results were qualified accordingly:

Date /Time of Analysis	Inst. i.d.	Compound	%D	Qualifier Detect/Non-detect
7/13/99 (11:33)	66	pentachlorophenol 3,3'-dichlorobenzidine 2,4,6-tribromophenol (surr.)	-28.8 48.4 33.0	J/UJ J/none none
7/14/99 (10:50)	66	2,4-dinitrophenol 3,3'-dichlorobenzidine	34.6 28.2	J/none J/none
7/24/99 (10:52)	66	3-nitroaniline 4-nitroaniline	-25,2 -33.0	none J/UJ
7/27/99 (09:30)	66	2,2'-oxybis(1-chloropropane) carbazole 3,3'-dichlorobenzidine di-n-octylphthalate	33.8 32.8 -25.2 -25.3	J/none J/none none none
7/14/99 (23:38)	70	pentachlorophenol 2,4,6-tribromophenol (surr.)	-27.5 -28.8	J/UJ none
7/30/99 (23:07)	70	4-chloroaniline 3-nitroaniline 2,4-dinitrophenol 4-nitroaniline pentachlorophenol butylbenzylphthalate 3,3'-dichlorobenzidine bis (2-ethylhexyl)phthalate di-n-octylphthalate 2-fluorophenol (surr.)	45.4 35.8 -32.3 39.0 -33.3 26.4 59.1 31.6 48.0 -25.2	J/none J/none J/UJ J/none J/none J/none J/none J/none J/none

Compound Quantitation and Detection Limits

All of the samples were analyzed at the contract required quantitation limits (CRQLs) with the following exceptions:

Pest/PCB samples JP421, JW585, JW591, JW593 and JW595 were analyzed at dilutions of 2X, 5X, 5X, 10X and 5X respectively, based on the results of the screen analysis.

Target compounds that were detected at concentrations less than the CRQLs were qualified as estimated, "J". Detected compounds at concentrations over the calibration range were qualified as estimated, "J". Data users should consider these estimated compounds as the minimum amount present in the samples. It is also recommended that for these compounds, data users should utilize the concentrations reported from the dilution runs. All of the reported results were adjusted for sample amounts analyzed.

Blanks

Methylene chloride, acetone, 2-butanone and 2-hexanone were detected below the CRQL in the VOA blank VBLKB4. Methylene chloride, acetone, 2-butanone and 2-hexanone detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Methylene chloride, acetone and 2-butanone were detected below the CRQL in the VOA blank VBLKZ7. Methylene chloride, acetone and 2-butanone detected in the samples at concentrations less than ten times the value

in their associated blank(s) were qualified as non-detects, "U".

Methylene chloride and acetone was detected below the CRQL in the VOA blanks VBLKZ8 and VHBLD7. Methylene chloride and acetone detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Alpha-BHC, beta-BHC, heptachlor, aldrin, heptachlor epoxide, dieldrin, 4,4'-DDE, 4,4'-DDD, endosulfan sulfate, 4,4'-DDT, endrin aldehyde and gamma chlordane were detected below the CRQL in the Pest/PCB blank PBLKNX. Alpha-BHC, beta-BHC, heptachlor, aldrin, heptachlor epoxide, dieldrin, 4,4'-DDE, 4,4'-DDD, endosulfan sulfate, 4,4'-DDT, endrin aldehyde and gamma chlordane detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

Aldrin, heptachlor epoxide, 4,4'-DDD and 4,4'-DDT were detected below the CRQL in the Pest/PCB blank PBLKOJ. Aldrin, heptachlor epoxide, 4,4'-DDD and 4,4'-DDT detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

4,4'-DDE, 4,4'-DDD and 4,4'-DDT were detected below the CRQL in the Pest/PCB blank PBLKPD. 4,4'-DDE, 4,4'-DDD and 4,4'-DDT detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

Alpha-BHC, beta-BHC, heptachlor epoxide, 4,4'-DDE, endrin, 4,4'-DDD, endosulfan sulfate and 4,4'-DDT were detected below the CRQL in the Pest/PCB blank PBLKXN. Alpha-BHC, beta-BHC, heptachlor epoxide, 4,4'-DDE, endrin, 4,4'-DDD, endosulfan sulfate and 4,4'-DDT detected in the samples at concentrations less than five times the value in their associated blank(s) were qualified as non-detects, "U".

Analytical Sequence - Acceptable

All of the standards, blanks, samples, and QC samples were analyzed in accordance with the SOW specified analytical sequence.

System Monitoring Compounds (SMC)/Surrogate Spikes

All of the VOA SMC recoveries met the applicable QC criteria.

All of the SVOA surrogates recoveries met the applicable QC criteria.

All of the Pest/PCB surrogate spike recoveries met the applicable QC criteria (30-150%) with the following exceptions:

JP429 TCX2 174%, DCB1 263% JW593 DCB1 151%, DCB2 152%

Surrogated recoveries for sample JP429 were affected by chromatographic interferences. Surrogate recoveries for sample JW593 were only slightly outside of the recovery criteria. None of the data were qualified on the basis of surrogate spike recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

VOA sample JP410 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses.

SVOA sample JP410 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses.

ESW10-3-1420 Page 5 of 7

Pest/PCB sample JP410 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses.

No data qualification was applied based on MS/MSD analysis.

Internal Standards - Acceptable

The acceptance criteria for internal standards (IS) are ± 30 seconds for retention time (RT) shifts and -50% to +100% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the GC/MS analyses met the IS area and retention time shift criteria.

Compound Identification

All of the compounds detected in the GC/MS analyses were within the retention time windows, met the USEPA spectral matching criteria and were judged to be acceptable.

Single component pesticides and aroclors were qualified as follows: where %Ds (between two column concentrations) > 30% but \leq 60% - detected results were qualified as estimated, "J"; %Ds > 60% with concentrations > CRQL - results were qualified as tentatively identified at the estimated concentration , "JN"; %Ds > 60% with concentrations < CRQL - results were qualified as non-detects, "U"; %Ds > 400% - results were qualified as non-detects with raised quantitation limit if > CRQL. In cases where %Ds < 60% with concentrations < CRQL and chromatographic interferences, the results were qualified as non-detects, "U". In cases where %Ds < 400% with concentrations > CRQL and chromatographic interferences, the results were qualified as tentatively identified at the estimated concentration , "JN".

Tentatively Identified Compounds

Peaks that were detected in the samples at areas >10% of the internal standards and were not part of the target compound lists were identified as tentatively identified compounds (TICs). TICs that were both found in the sample and in the associated method blank(s) were qualified as unusable, "R." Peaks that were identified as common laboratory contaminants, solvent preservatives, column bleed or aldol condensation products were qualified as unusable, "R". The rest of the peaks identified as TICs were qualified "NJ", tentatively identified at an estimated concentration.

Laboratory Contact

The laboratory was contacted by Region 10 concerning the following items:

All raw data for the SVOA instrument performance check on 7/8/99 at 20:41 (instrument HP70) is missing. Raw data for the instrument performance check on 7/9/99 at 08:46 was included and is not needed.

Hard copies of all resubmissions will be sent to Region 10.

Overall Assessment

All of the samples were analyzed in accordance with the SOW specifications. The data, as qualified, are acceptable and can be used for all purposes.

Data Qualifiers

- U The analyte was not detected at or above the reported result.
- J The analyte was positively identified. The associated numerical result is an estimate.
- R The data are unusable for all purposes.
- N There is evidence the analyte is present in this sample.
- JN There is evidence that the analyte is present. The associated numerical result is an estimate.
- UJ The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.

Holding Time Summary - Case 27165

SDG: JP410

Sample Number	Collection Date	VTSR	VOA Analysis	SVOA Extraction	SVOA Analysis	Pest/PCB Extraction	Pest/PCB Analysis
JP410	7/8/99	7/9/99	7/16/99	7/9/99	7/14/99	7/9/99	8/11/99
JP418	7/8/99	7/10/99	7/16/99	7/12/99	7/15/99	7/13/99	8/18/99
ЛР419	7/8/99	7/10/99	7/16/99	7/12/99	7/15/99	NA	NA
ЛР420	7/9/99	7/10/99	7/16/99	7/12/99	7/15/99	7/13/99	8/20/99
Љ421	7/9/99	7/10/99	7/16/99	7/12/99	7/15/99	7/13/99	8/18/99
ЛР422	7/9/99	7/10/99	7/16/99	7/12/99	7/15/99	7/13/99	8/18/99
ЛР428	7/9/99	7/14/99	7/16/99	7/29/99	7/31/99	7/16/99	8/19/99
JP429	7/9/99	7/14/99	7/16/99	7/16/99	7/27/99	7/16/99	8/19/99
JW585	7/8/99	7/10/99	NA	NA.	NA	7/13/99	8/20/99
JW586	7/8/99	7/10/99	NA	NA.	NA	7/13/99	8/18/99
JW587	7/8/99	7/10/99	NA	NA	NA	7/13/99	8/18/99
JW588	7/8/99	7/10/99	NA	·NA	NA	7/13/99	8/18/99
JW589	7/8/99	7/10/99	NA	NA	· NA	7/13/99	8/18/99
JW590	7/8/99	7/10/99	NA ·	NA	NA .	7/13/99	8/18/99
JW591	7/8/99	7/10/99	NA	NA	NA	7/13/99	.8/20/99
JW592	7/8/99	7/10/99	NA	NA	NA	7/13/99	8/18/99
JW593	7/8/99	7/10/99	NA	NA ·	NA	7/13/99	8/18/99
JW594	7/8/99	7/10/99	NA	NA	NA	7/13/99	8/18/99
JW595	7/8/99	7/10/99	NA .	. NA	NA	7/13/99	8/20/99
JW596	7/8/99	7/10/99	NA	NA	NA	7/13/99	8/18/99
Љ410DL	7/8/99	7/9/99	NA .	NA	NA	7/9/99	8/19/99
JW585DL	. 7/8/99	7/10/99	NA	NA	NA	7/13/99	8/19/99
JW587DL	7/8/99	7/10/99	NA	NA	NA	7/13/99	8/20/99
JW591DL	7/8/99	7/10/99	NA	NA	NA	7/13/99	8/20/99
JW593DL	7/8/99	7/10/99	NA	NA	NA.	7/13/99	8/20/99
JW595DL	7/8/99	7/10/99	NA	NA	NA	7/13/99	8/19/99

JP410 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410 Matrix: (soil/water) SOIL Lab Sample ID: 949999 Lab File ID: Sample wt/vol: 5.0 (g/mL) gGH049999A51 Level: (low/med) LOW Date Received: 07/09/99 % Moisture: not dec. 9 Date Analyzed: 07/16/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: _ Soil Extract Volume: (uL) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg 74-87-3-----Chloromethane 11 U 74-83-9-----Bromomethane 11 U 75-01-4-----Vinyl Chloride 11 U 75-00-3-----Chloroethane 11 U 1/ 3 万3 U 49 BU 75-09-2----Methylene Chloride 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 11 0 75-35-4----1,1-Dichloroethene 11 U 75-34-3-----1,1-Dichloroethane
540-59-0----1,2-Dichloroethene (total) 11 U 11 U 67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane 11 U 78-93-3----2-Butanone 1120 ABUJ 71-55-6----1,1,1-Trichloroethane 11 U 11 U 11 U 78-87-5-----1,2-Dichloropropane_ 11 U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 U 79-00-5----1,1,2-Trichloroethane 11 U 71-43-2-----Benzene 11 U 11 U 10061-02-6----trans-1,3-Dichloropropene 75-25-2-----Bromoform 108-10-1----4-Methyl-2-Pentanone 11 U 591-78-6----2-Hexanone 11 | U 127-18-4-----Tetrachloroethene 11 | U 79-34-5----1,1,2,2-Tetrachloroethane 11 U 108-88-3-----Toluene 11 | U 108-90-7-----Chlorobenzene 11 U 100-41-4-----Ethylbenzene 11 U 100-42-5-----Styrene 11 U 1330-20-7-----Xylene (Total) 11 U

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

5.0 (g/mL) g

EPA SAME	LE NO.
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J	P	4	1	0	

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165

SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 94999

Sample wt/vol:

Lab File ID: gh049999a51

Level: (low/med)

Date Received: 07/09/99

% Moisture: not dec. 9

Date Analyzed: 07/16/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

Soil Aliquot Volume:

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 0

1	CONC. Q
3 .	
4 — 5 — 6 — 9 — 3 — 4 — 5 — 6 — 9 — 1 — 2 — 3 — 4 —	
7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4	
7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4	
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FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

JP418 Contract: 68D50004

Lab Name: COMPUCHEM

SDG No.: JP410 Lab Code: COMPU Case No.: 27165 SAS No.:

Lab Sample ID: 950231 Matrix: (soil/water) SOIL

Lab File ID: GH050231A51 Sample wt/vol: 5.0 (g/mL) g

Date Received: 07/10/99 Level: (low/med) LOW

Date Analyzed: 07/16/99 % Moisture: not dec. 11

Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Aliquot Volume: ____(uL Soil Extract Volume:____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg

11 0 74-87-3-----Chloromethane 11 U 74-83-9-----Bromomethane 11 U 75-01-4------Vinyl Chloride 11 U 75-00-3-----Chloroethane 75-09-2-----Methylene Chloride___ 67-64-1-----Acetone_ 75-15-0-----Carbon Disulfide 11 75-35-4----1,1-Dichloroethene_ 11 75-34-3----1,1-Dichloroethane 11 540-59-0----1,2-Dichloroethene (total) 11 67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane 11 U 78-93-3----2-Butanone 11 U 71-55-6-----1,1,1-Trichloroethane_ 11 | U 56-23-5-----Carbon Tetrachloride__ 75-27-4-----Bromodichloromethane 11 U 11 U _78-87-5----1,2-Dichloropropane_ 11 U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6-----Trichloroethene 11 | U 124-48-1-----Dibromochloromethane 11 U 79-00-5-----1,1,2-Trichloroethane_ 11 U 71-43-2-----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene_ 11 U 75-25-2-----Bromoform 11 U 108-10-1-----4-Methyl- $\overline{2}$ -Pentanone___ 11 | U 591-78-6----2-Hexanone 127-18-4-----Tetrachloroethene 11 | U 79-34-5----1,1,2,2-Tetrachloroethane_ 11 U 108-88-3-----Toluene 11 | U 11 U 108-90-7-----Chlorobenzene 11 U 100-41-4-----Ethylbenzene 100-42-5-----Styrene 1330-20-7------Xylene (Total)____ 11 | U 11 U

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950231

Sample wt/vol:

5.0 (g/mL) g

Lab File ID: gh050231a51

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: not dec. 11

Date Analyzed: 07/16/99

GC Column: EQUITY624

ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume:

Soil Aliquot Volume:

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2.	LABORATORY ARTIFACT	ination _{20.59} 22.54		TR TR
4. 5.				
6. 7. 8.				
9. 10. 11.				
12. 13. 14.				
15. 16. 17.				
18. 19. 20.				
21. 22. 23.				
24. 25. 26.				
27. 28. 29.		3 2 3 3		
30				

FORM I VOA-TIC

JP419 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410 Matrix: (soil/water) SOIL Lab Sample ID: 950232 5.0 (g/mL) g Sample wt/vol: Lab File ID: GH050232A51 Level: (low/med) LOW Date Received: 07/10/99 % Moisture: not dec. 14 Date Analyzed: 07/16/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ___ CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Q CAS NO. COMPOUND

74-87-3	Chloromethane	š	12 U
74-83-9	Bromomethane		12 0
75-01-4	Vinyl Chloride		12 U
75-00-3	-Chloroethane		12 U
	Methylene Chloride	٠	12 x JBU
67-64-1	Acetone		12 20 JBUJ
	-Carbon Disulfide	-	12 0
75-35-4	-1,1-Dichloroethene		12 U
75-34-3	-1,1-Dichloroethane		12 U
540-59-0	-1,2-Dichloroethene (total)	. ;	12 U
67-66-3	-Chloroform		12 U
	-1,2-Dichloroethane		12 U
78-93-3	-2-Butanone		12 2 JBUT
	-1,1,1-Trichloroethane		12 0
	-Carbon Tetrachloride		12 U
75-27-4	-Bromodichloromethane		12 U
78-87-5	-1,2-Dichloropropane		12 U
10061-01-5	-cis-1,3-Dichloropropene		12 U
79-01-6	-Trichloroethene		12 1
124-48-1	-Dibromochloromethane		12 U
79-00-5	-1,1,2-Trichloroethane		12 U
71-43-2	-Benzene		12 U
	-trans-1,3-Dichloropropene		12 U
75-25-2	-Bromoform		12 U
	-4-Methyl-2-Pentanone		12 U
591-78-6	-2-Hexanone		12 U
	-Tetrachloroethene		12 0
	-1,1,2,2-Tetrachloroethane		12 U
108-88-3	-Toluene		12 U
108-90-7	-Chlorobenzene		12 U
100-41-4	-Ethylbenzene		12 U
100-42-5	-Styrene	1	12 U
1330-20-7	-Xvlene (Total)		12 0
	1		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

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JP419	

EPA SAMPLE NO.

Lab Name: COMI

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No : JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950232

Sample wt/vol:

5.0 (g/mL) g

Lab File ID: gh050232a51

Level:

(low/med)

% Moisture: not dec. 14

LOM.

Date Received: 07/10/99

Date Analyzed: 07/16/99

GC Column: EQUITY624 ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT Lab Cont.	20.57 22.53		J-R J-R
3	- IABORATORI ARTIFACI			
5				
7.				
8. 9				
0				
2. 3.				
4				
6				
8.				
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7. 8.			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<u> </u>
9.				-
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FORM I VOA-TIC

EPA SAMPLE NO.

JP420 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410 Lab Sample ID: 950233 Matrix: (soil/water) SOIL Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH050233A51 Level: (low/med) LOW Date Received: 07/10/99 % Moisture: not dec. 6 Date Analyzed: 07/16/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: CAS NO. (ug/L or ug/Kg) ug/Kg COMPOUND 11 U 74-87-3-----Chloromethane 74-83-9-----Bromomethane 11 U 11 U 75-01-4----Vinyl Chloride 11 U 11 25 JBU 75-00-3-----Chloroethane 75-09-2-----Methylene Chloride_ 170 B 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 11 U 75-35-4----1,1-Dichloroethene 11 U 75-34-3----1,1-Dichloroethane 11 U 540-59-0----1,2-Dichloroethene (total) 11 U '67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane 11 U 40 8丁 78-93-3----2-Butanone 71-55-6-----1,1,1-Trichloroethane_ 11 U 56-23-5-----Carbon Tetrachloride 11 | U 75-27-4-----Bromodichloromethane 11 U 78-87-5-----1,2-Dichloropropane_ 11 10061-01-5----cis-1,3-Dichloropropene_ 11

> 11 U 11 U 11 U

11 U

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11 U

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11 U

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11 U

11 U

11 U

11 U

11 U

FORM I VOA

79-01-6----Trichloroethene

71-43-2----Benzene

108-88-3-----Toluene

100-42-5----Styrene

75-25-2----Bromoform

591-78-6----2-Hexanone

124-48-1-----Dibromochloromethane

79-00-5----1,1,2-Trichloroethane

108-10-1----4-Methyl-2-Pentanone

127-18-4----Tetrachloroethene

108-90-7-----Chlorobenzene

100-41-4----Ethylbenzene_

1330-20-7-----Xylene (Total)

10061-02-6----trans-1,3-Dichloropropene

79-34-5----1,1,2,2-Tetrachloroethane

OLM03.0

OP 9-13-97

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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	Con	tra	ct:	68D50004

Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165

SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950233

Sample wt/vol:

5.0 (g/mL) g

Lab File ID: gh050233a51

Level: (low/med) LOW

Date Received: 07/10/99

% Moisture: not dec. 6

Date Analyzed: 07/16/99

GC Column: EQUITY624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

Soil Aliquot Volume:

____(uL

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT Lab Cont.	20.56	43	J- R
3.	UNKNOWN HYDROCARBON SUBSTITUTED BENZENE DECAHYDRONAPHTHALENE ISOMER	20.79 21.20 22.01	13 8 6	JW JW
5 .	LABORATORY ARTIFACT Lab Cont.	22.52	25	J K
7.				
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•	Harrist Commence			
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7	9 Fig. 1.			-
3.				
9.				

CP 9-13-97

JP421 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU SAS No.: SDG No.: JP410 Case No.: 27165 Matrix: (soil/water) SOIL Lab Sample ID: 950234 Sample wt/vol: Lab File ID: 5.0 (g/mL) gGH050234A51 Level: (low/med)Date Received: 07/10/99 LOW % Moisture: not dec. 8 Date Analyzed: 07/16/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: CAS NO. (ug/L or ug/Kg) ug/Kg COMPOUND

	(45/2 02 45	,5,	45/			. *	
74-87-3	Chloromethane				11	U	
74-83-9	Bromomethane	· -				Ü	
75-01-4	Vinyl Chloride	·				Ü	
75-00-3	Chloroethane	1	•		11	Ü	
75-09-2	Methylene Chloride	1		11		JEU	
67-64-1		: 1		10		BU	* .
	Carbon Disulfide	•			11	Ü	,
	1,1-Dichloroethene	• [11	Ū	
75-34-3	1,1-Dichloroethane	•	v			Ū	
540-59-0	1,2-Dichloroethene (total)	•			11	τ	j ·
67-66-3	Chloroform	•			11.	. –	
107-06-2	1,2-Dichloroethane	-			11		}
78-93-3	2-Butanone	- -) į		BUJ	
71-55-6	1,1,1-Trichloroethane	-		· ''.	11	U	
56-23-5	Carbon Tetrachloride	-			11	Ü	
75-27-4	Bromodichloromethane	-			11	_	• • • •
78-87-5	1,2-Dichloropropane	-			īi		:
10061-01-5	cis-1,3-Dichloropropene				11	Ū	
79-01-6	Trichloroethene	-			11		1.7
124-48-1	Dibromochloromethane	-	•		11		
79-00-5	1,1,2-Trichloroethane	-			11		
71-43-2	Benzene	-		•	11	Ū	İ
10061-02-6	trans-1,3-Dichloropropene				11	Ū	1
75-25-2	Bromoform	-			11	Ū	
108-10-1	4-Methyl-2-Pentanone	-			11	Ū	1
591-78-6	2-Hexanone	-			11		
127-18-4	Tetrachloroethene				11	1	"
	1,1,2,2-Tetrachloroethane	-			11	_	
108-88-3	Toluene	-			11		
108-90-7	Chlorobenzene	- .		•	11		" "
100-41-4	Ethylbenzene	-			11	U	
100-42-5	Styrene	-		•	11	lπ	
1330-20-7	Xylene (Total)	-			11	U	
		-					6
		_ 1	······································	**********	<u>_</u>	1	13-99
	•					NPM	.15
						CI T	

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

	TENTATIVELY	IDENTIFIE	D COMPOUNDS		JP421
Lab Name:	COMPUCHEM		Contract: 68D500	04	

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950234

Sample wt/vol: 5.0 (g/mL) g Lab File ID: gh050234a51

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: not dec. 8 Date Analyzed: 07/16/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	R'T	EST. CONC.	Q
1.	LABORATORY ARTIFACT Lab Cont.	20.56 22.51	129 116	JR
3	HABORATORI ARTIFACI		110	
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3. 9				
)		And Valence		
2. 3.				
1.				
7 .			***************************************	
3				
). L.				
2.				
3.				
5.				
7. 3.				
9				

CP 9-13-59

FORM I VOA-TIC

JP422 Contract: 68D50004

Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Lab Sample ID: 950235 Matrix: (soil/water) SOIL

Sample wt/vol: Lab File ID: GH050235A51 5.0 (g/mL) g

Date Received: 07/10/99 Level: (low/med) LOW

% Moisture: not dec. 15 Date Analyzed: 07/16/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

COMPOUND CAS NO. (ug/L or ug/Kg) ug/Kg

74-87-3Chloromethane		12	U
74-83-9Bromomethane		12	U
75-01-4Vinyl Chloride		12	U
75-00-3Chloroethane		12	U
75-09-2Methylene Chloride		122	JE U
67-64-1Acetone			BU
75-15-0Carbon Disulfide		12	υ
75-35-41,1-Dichloroethene		. 12	Ū
75-34-31,1-Dichloroethane		12	
540-59-01,2-Dichloroethene (total)		12	
67-66-3Chloroform		12	_
107-06-21,2-Dichloroethane		12	_
78-93-32-Butanone			JBUJ
71-55-61,1,1-Trichloroethane		12	
56-23-5Carbon Tetrachloride		12	
75-27-4Bromodichloromethane		12	_
78-87-51,2-Dichloropropane		12	-
10061-01-5cis-1,3-Dichloropropene		12	_
79-01-6Trichloroethene		12	
124-48-1Dibromochloromethane		12	
79-00-5,1,2-Trichloroethane		12	
71-43-2Benzene		12	
10061-02-6trans-1,3-Dichloropropene		12	1 -
75-25-2Bromoform	,	12	3 -
108-10-14-Methyl-2-Pentanone	1	12	บี
591-78-62-Hexanone	l'	12	Ü.
127-18-4Tetrachloroethene		12	บี
79-34-51,1,2,2-Tetrachloroethane		12	υ
108-88-3Toluene		12	Ü
108-90-7Chlorobenzene		12	Ü
		12	ָ ט
100-41-4Ethylbenzene		_	יט י
100-42-5Styrene		12	1 -
1330-20-7Xylene (Total)		12	Ū
	1		J

FORM I VOA

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP422

Lab	Name:	COMPUCHEM
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Contract: 68D50004

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

gh050235a51

Sample wt/vol:

Lab File ID:

Level: (low/med)

Date Analyzed: 07/16/99

Date Received: 07/10/99

% Moisture: not dec. 15

5.0 (g/mL) g

Dilution Factor: 1.0

Lab Sample ID: 950235

GC Column: EQUITY624 ID: 0.53

Soil Aliquot Volume:

(uL

Soil Extract Volume:

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	LABORATORY ARTIFACT LAB COAT.	20.57	$\frac{17}{27}$	J K
3 .	LABORATORY ARTIFACT	22.52	. 21	٨ – ت
1.				
5.				
7.			-	
3.				
9 <u>. </u>				<u> </u>
2.				
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7 -				
3.				
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2.				
3.				
5.				
7. 3.		x = 3 × x × x × x × x × x × x × x × x × x ×		
).				
D.				

JP428 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410 Matrix: (soil/water) SOIL Lab Sample ID: 950544 Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH050544B51 Level: (low/med) LOW Date Received: 07/14/99 % Moisture: not dec. 7 Date Analyzed: 07/16/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg 74-87-3-----Chloromethane 11 U 74-83-9-----Bromomethane 11 U 75-01-4-----Vinyl Chloride 11 U 75-00-3-----Chloroethane 11 U 75-09-2----Methylene Chloride____ 11 U 67-64-1------Acetone 78 BU 75-15-0-----Carbon Disulfide 75-35-4----1,1-Dichloroethene 11 U 75-34-3----1,1-Dichloroethane 11 U 540-59-0----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane 11 U 78-93-3----2-Butanone 1/ 20 JBUJ 71-55-6----1,1,1-Trichloroethane 11 U 56-23-5-----Carbon Tetrachloride 11 U 75-27-4-----Bromodichloromethane 11 U 78-87-5----1,2-Dichloropropane 11 | U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6----Trichloroethene 11 U 124-48-1----Dibromochloromethane 11 U 79-00-5----1,1,2-Trichloroethane 11 U 71-43-2----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene 11 U 75-25-2----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone_ 11 U 591-78-6----2-Hexanone 11 U 127-18-4----Tetrachloroethene 11 U 79-34-5----1,1,2,2-Tetrachloroethane 11 U 108-88-3-----Toluene 11 | U 108-90-7-----Chlorobenzene 11 U 100-41-4-----Ethylbenzene_ 11 | U 100-42-5-----Styrene 1330-20-7------Xylene (Total) 11 U 11 U

CP 9-13-50

EPA	SAMPLE	NO
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Y IDENTIFIED COMPOUNDS	·
	JP428
Contract: 68D50004	

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950544

Sample wt/vol:

5.0 (g/mL) g

Lab File ID: gh050544b51

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: EQUITY624

Lab Name: COMPUCHEM

ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume:

Soil Aliquot Volume:

Number TICs found: 6

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4.	SUBSTITUTED ALKANE SUBSTITUTED ALKANE SUBSTITUTED BENZENE DECAHYDRONAPHTHALENE ISOMER LABORATORY ARTIFACT LAB CONF.	21.44 21.70 21.94 22.02 22.53	9 . 13 6 6	JN JN JN JN
6. 7.	UNKNOWN CYCLIC HYDROCARBON	23.04	8	J _N
8.				
10.				
12. 13.				
15.				
17. 18.				
19. 20. 21.				
22.				
24. 25.				
26. 27. 28.				
29.				

FORM I VOA-TIC

JP429 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410 Matrix: (soil/water) SOIL Lab Sample ID: 950545 Sample wt/vol: 5.0 (g/mL) gLab File ID: GH050545B51 Level: (low/med) LOW Date Received: 07/14/99 % Moisture: not dec. 23 Date Analyzed: 07/16/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg

4-87-3	Chloromethane	i	1.	3 U
4-83-9	Bromomethane	`]. ·	1.	3 l U
75-01-4	Vinyl Chloride	·	1	3 U
75-00-3	Chloroethane			3 l U
75-09-2	Methylene Chloride	` 	. 1.	3 U
57-64-1	Acetone	1 .	3	- 1 - 1
75-15-0	Carbon Disulfide		1.	
75-35-4	1,1-Dichloroethene			3 l Ū
75-34-3	1,1-Dichloroethane	•		3 U
40-59-0	1,2-Dichloroethene (total)	· · · ·	ī	
7-66-3	Chloroform	•		3 U
07-06-2	1,2-Dichloroethane	•	ī	
78-93-3	2-Butanone	•		7 JBUJ
71-55-6	1,1,1-Trichloroethane	· .	1	
6-23-5	Carbon Tetrachloride	•	ī	-
75-27-4	Bromodichloromethane	•		3 U
8-87-5	1,2-Dichloropropane	•	· ī	
0061-01-5	cis-1,3-Dichloropropene	•	· ī	
79-01-6	Trichloroethene	•		3 U
24-48-1	Dibromochloromethane	•		3 U
79-00-5	1,1,2-Trichloroethane	- ·		3 U
1-43-2	Benzene	-		3 U
0061-02-6	trans-1,3-Dichloropropene	-		3 Ū
75-25-2	Bromoform	•		3 U
08-10-1	4-Methyl-2-Pentanone	- '		3 U
91-78-6	2-Hexanone	-	_	3 U
27-18-4	Tetrachloroethene	- [3 U
19-34-5	1,1,2,2-Tetrachloroethane	-	_	3 U
08-88-3	·Toluene	-		
08-90-7	Chlorobenzene	-		4 .
100 JU=7==== 100=41=4==	Ethylbenzene	-		3 U
	Styrene	-		3 U
330-20 7	vilone (Motol)	-		3 U
1330-20-/	Xylene (Total)	-	_ 1	3 U

FORM I VOA

144

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	•	
•	JP429	

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950545

Sample wt/vol:

5.0 (g/mL) g

Lab File ID: gh050545b51

Level: (low/med)

LOW

Date Received: 07/14/99

% Moisture: not dec. 23

Date Analyzed: 07/16/99

GC Column: EQUITY624 ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume:

Number TICs found: 5

Soil Aliquot Volume:

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 3. 4.	LABORATORY ARTIFACT Lab Conf. UNKNOWN ALKANE SUBSTITUTED BENZENE SUBSTITUTED CYCLOHEXANE	20.56 20.82 21.20 21.39	19 11 7	JN JN JN
5. 6.	LABORATORY ARTIFACT Lab Cont.	22.54 	8	-
8.				
10. 11. 12.				
L3. L4.				
L6				
\8. \9. 20.				
21. 22.				
24. 25.				
26. 27. 28.				
29. 30.				

JP410

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 949999

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: GH049999A66

Level: (low/med) LOW

Date Received: 07/09/99

% Moisture: 9

decanted: (Y/N) N

Date Extracted: 07/09/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	ONCENTRATION U		Q
111-44-4 95-57-8 541-73-1 106-46-7 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 98-95-3 111-91-1 120-83-2 111-91-1 120-82-1 91-20-3 91-20-3 91-57-6 91-57-6 91-58-7 88-74-4 91-58-7 88-74-4 91-58-7	 ropropane) pylamine) methane zene e henol e tadiene nol nol e	360 360 360 360 360 360 360 360 360 360	

JP410

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 949999

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH049999A66

Level: (low/med) LOW,

Date Received: 07/09/99

% Moisture: 9

decanted: (Y/N) N

Date Extracted: 07/09/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.0

CAC NO COMPOST		NCENTRATION ng/L or ug/N			Q	h
CAS NO. COMPOUR	עון (נ	ig/H Or ug/i	.g, og, ko	w 7	×	:
51-28-52,4-Dir	itrophenol			910	U	
100-02-74-Nitro	nhenol				Ū	
132-64-9Dibenzo				360	Ŭ	
121-14-22,4-Di				360	Ŭ	
					Ū	
84-66-2Diethy. 7005-72-34-Chlo	pricratace	wlether	٤	360	_	
86-73-7Fluore	obuenAr-buer	TATECHET -			Ŭ	
100-01-64-Nitro			1	910	Ū	
100-01-64-N1Cr	oaniiine	-Inhanal	••	910	Ŭ	
534-52-14,6-Di	11010-2-11011	ATDITETIOT —	ŗ	360	Ü	
86-30-6Ninitr	osogipnenyiai	"TITE - (T)		360	Ü	•
101-55-34-Brom	obuenAT-buen	Arechet		360	Ŭ	
118-74-1Hexach				910	Ü	•
87-86-5Pentac			A Company		Ü	
85-01-8Phenan			•	360		
120-12-7Anthra				360	U	
86-74-8Carbaz	ole			360	U	. *
84-74-2Di-n-b	utylphthalate	e		360	U	
206-44-0Fluora		1 1 11 13	•	360	Ū.	÷
129-00-0Pyrene		5.7 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		360	U	
85-68-7Butylb	enzylphthala	te	and the second	360	U	
91-94-13,3'-D	ichlorobenzi	dine		360	U.	
56-55-3Benzo(360	U.	
218-01-9Chryse	ne	A Company of the Company		360	U	
117-81-7bis(2-	Ethylhexyl)p	hthalate		64		
117-84-0Di-n-o	ctylphthalat	e		360	U	
205-99-2Benzo(b)fluoranthe	ne		360		
207-08-9Benzo(k) fluoranthe	ne	4	360		• .
50-32-8Benzo(•	360	U	
193-39-5Indenc		rene	•	360	U	
53-70-3Dibenz				360	U	
191-24-2Benzo(g,h,i)peryle	ne		360	U	•
1					l	<u> </u>
- Cannot be separated	. rom Diphen	yramine		Λ.	0 13-1	
•				(7		'سرارور

FORM I SV-2

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP410

Lab Name: COMPUCHEM

Contract: 68D50004

ab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 949999

lample wt/vol: 30.0 (g/mL) G

Lab File ID: GH049999A66

Tevel: (low/med)

Date Received: 07/09/99

Moisture: 9

decanted: (Y/N) N

Date Extracted:07/09/99

oncentrated Extract Volume: 500(uL)

Date Analyzed: 07/14/99

injection Volume: 2.0(uL)

Dilution Factor: 1.0

PC Cleanup:

(Y/N) Y

pH: 8.0

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

]	CAS NUMBER	COMPOUND NAME	RT	EST, CONC.	Q
	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN UNKNOWN	10.26 16.25 20.44 20.60 20.79 20.86 21.09 21.55 21.60 21.67 21.81 21.85 22.07 22.14 22.30 22.37 22.44 22.58 22.72 22.83 22.92 23.09 23.28 23.97 24.23	750 900 480 570 350	מממממממממממממממממממממ מודיים ממממממממממממממממממ

FORM I SV-TIC

JP418 Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Lab Sample ID: 950231 Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050231B70

Date Received: 07/10/99 Level: (low/med) LOW

% Moisture: 11 decanted: (Y/N) N Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) Y pH: 7.1 CONCENTRATION UNITS:

COMPOUND CAS NO. (ug/L or ug/Kg) UG/KG

108-95-2Phenol			370	U .	
111-44-4bis(2-Chloroethyl)ether	٠. ٠		- 1	Ü	
95-57-82-Chlorophenol		•		Ü	F
541-73-11,3-Dichlorobenzene			370	Ü	
106 46 7 1 4 Dighteroperson		٠	370	Ŭ	- 1
106-46-71,4-Dichlorobenzene	ĺ		370	Ü	ľ
95-50-11,2-Dichlorobenzene			370	Ü	
95-48-72-Methylphenol	ĺ		370	บ	
108-60-12,2'-oxybis(1-Chloropropane) 106-44-54-Methylphenol_		•			
106-44-54-Methylphenol	İ		370	Ü	
621-64-7N-Nitroso-di-n-propylamine			370	Ū	
67-72-1Hexachloroethane	'		370	מ	- 1
98-95-3Nitrobenzene		•	370	_	· .
78-59-1Isophorone			370		
88-75-52 ² Nitrophenol			370	-,	1.
105-67-92;4-Dimethylphenol			37.0	_	ľ
111-91-1bis(2-Chloroethoxy)methane	۳		370	1 -	1
120-83-22;4-Dichlorophenol	l .		370		
版20-82-11,2,4-Trichlorobenzene			3.70	U	.
91-20-3Naphthalene	1		370	Ū.	
106-47-84-Chloroaniline	Ì		370	U	- 1
87-68-3Hexachlorobutadiene	1		370	U	- 1
59-50-74-Chloro-3-methylphenol	l .		370	U	
91-57-62-Methylnaphthalene	1		370	U	1
77-47-4Hexachlorocyclopentadiene	1	,	370	U	l
88-06-22,4,6-Trichlorophenol	1		370	U	
95-95-42,4,5-Trichlorophenol	1		930	U	
91-58-72-Chloronaphthalene	1		370		
88-74-42-Nitroaniline			930	1 -	
131-11-3Dimethylphthalate	· [370	1 -	- 1
208-96-8Acenaphthylene	1		370	1 -	
606 20 2 C Dinitrotolucro	.		3.70	1 -	
606-20-22,6-Dinitrotoluene				1 -	•
99-09-23-Nitroaniline			930		
83-32-9Acenaphthene	.		370	U	
	.]			.	

FORM I SV-1

OLMO3.0

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950231

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050231B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 11 decanted: (Y/N) N Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

	CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/			Q	
	100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 87-86-5 120-12-7 86-74-8 120-12-7 84-74-2 206-44-0 129-00-0 129-00-0 56-55-3 218-01-9 117-81-7 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 191-24-2	-Dibenzofuran -2,4-Dinitrotolue -Diethylphthalate -4-Chlorophenyl-p -Fluorene -4,6-Dinitro-2-me -4,6-Dinitro-2-me -N-nitrosodipheny -4-Bromophenyl-ph -Hexachlorobenzer -Pentachlorophene -Phenanthrene -Anthracene -Carbazole -Di-n-butylphthal -Fluoranthene -Pyrene -Butylbenzylphthal -3,3'-Dichlorober -Benzo(a) anthrace	chenylether chylphenol clamine (1) chenylether chenyle		930 370 370 370 930 370 370	ממסממני מטמממממממממממממממממממממממממממממממממ	
(7	r, - caimor de s	eparated from Dip	TICITATUMTHE	•		0	

OP 9-14-99

FORM I SV-2

OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JP418

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165

SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

GH050231B70

Level:

(low/med) LOW

Date Received: 07/10/99

% Moisture: 11

decanted: (Y/N) N

500 (uL)

Date Extracted: 07/12/99

Lab Sample ID: 950231

Concentrated Extract Volume:

Date Analyzed: 07/15/99

Injection Volume:

2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.1

Number TICs found: 19

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER		COMPOUND NAME	RT	EST.	CONC.	Q
CAS NUMBER	UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	Lab Contamination	RT ====== 6.78 17.16 17.85 18.08 18.20 18.25 18.51 18.61 18.96 19.35 20.52 22.11 22.24 22.29 22.34 22.41 22.53 22.58 22.70		 180	
28. 29. 30.						

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950232

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050232B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 14 decanted: (Y/N) N Date Extracted: 07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2----Phenol 380 U 111-44-4-----bis(2-Chloroethyl)ether 380 U 380 U 95-57-8----2-Chlorophenol 541-73-1----1,3-Dichlorobenzene 380 U 380 U 106-46-7----1,4-Dichlorobenzene 95-50-1----1,2-Dichlorobenzene 380 U 95-48-7----2-Methylphenol 380 U 380 U 380 U 380 U 108-60-1----2,2'-oxybis(1-Chloropropane) 106-44-5----4-Methylphenol 621-64-7----N-Nitroso-di-n-propylamine_ 380 U 67-72-1-----Hexachloroethane 98-95-3----Nitrobenzene 380 U 78-59-1-----Isophorone 380 U 88-75-5----2-Nitrophenol 380 U 105-67-9----2,4-Dimethylphenol 380 U 111-91-1----bis(2-Chloroethoxy)methane___ 3.80 U 380 U 380 U 91-20-3----Naphthalene 380 U 380 U 106-47-8----4-Chloroaniline 87-68-3-----Hexachlorobutadiene .380 U 260 J 59-50-7----4-Chloro-3-methylphenol 380 U 91-57-6----2-Methylnaphthalene___ 380 U 77-47-4-----Hexachlorocyclopentadiene___ 380 U 88-06-2----2,4,6-Trichlorophenol_ 960 U 95-95-4----2,4,5-Trichlorophenol_ 380 U 91-58-7----2-Chloronaphthalene 960 U 88-74-4----2-Nitroaniline 80 J 131-11-3-----Dimethylphthalate____ 380 U 208-96-8-----Acenaphthylene 606-20-2----2,6-Dinitrotoluene 380 U 99-09-2----3-Nitroaniline_ 960 U 380 U 83-32-9----Acenaphthene

FORM I SV-1

P 14-90LM03.0

JP419

Lab Name: COMPUCHEM Con

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950232

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050232B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 14 decanted: (Y/N) N Date Extracted: 07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

	CAS NO.	CONCENTRATION (ug/L or ug/		Q
	100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 129-00-0 129-00-0 129-00-0 129-00-0 117-84-0 117-84-0 117-84-0 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3	4-Nitroaniline4,6-Dinitro-2-methylphenolN-nitrosodiphenylamine (1)4-Bromophenyl-phenyletherHexachlorobenzenePentachlorophenolPhenanthreneCarbazoleDi-n-butylphthalateFluoranthenePyreneButylbenzylphthalate3,3'-DichlorobenzidineBenzo(a)anthracene	960 380 380 380 380 380 960 380 380 380	ממכמממממממממממממממממממממממממממממממממממ
i) - Cannot be	separated from Diphenylamine		$\frac{1}{\sqrt{\rho}}$

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract: 68D50004 Lab Name: COMPUCHEM

JP419

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950232

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH050232B70

Level: (low/med) LOW

Date Received: 07/10/99

% Moisture: 14 decanted: (Y/N) N Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: : 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.8

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
CAS NUMBER 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16.	COMPOUND NAME UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN AMIDE UNKNOWN ALCOHOL UNKNOWN UNKNOWN	RT ====== 6.79 9.79 10.72 10.94 14.78 15.15 17.16 17.87 19.54 22.11	EST. CONC.	==== J-R
17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.				

CP 9-14-99 OLM03.0

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950233

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050233B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 6 decanted: (Y/N) N Date Extracted: 07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

350 U 108-95-2----Phenol 350 U 111-44-4-----bis(2-Chloroethyl)ether 350 U 95-57-8----2-Chlorophenol 350 U 541-73-1----1,3-Dichlorobenzene 350 U 106-46-7----1,4-Dichlorobenzene_ 350 U 95-50-1----1,2-Dichlorobenzene_ 350 U 95-48-7----2-Methylphenol 108-60-1----2,2'-oxybis(1-Chloropropane) 350 U 350 U 106-44-5----4-Methylphenol 350 U 621-64-7----N-Nitroso-di-n-propylamine 350 U 67-72-1-----Hexachloroethane 98-95-3-----Nitrobenzene 350 U 78-59-1-----Isophorone 350 U 350 U 88-75-5----2-Nitrophenol 350 U 105-67-9----2,4-Dimethylphenol_ 111-91-1-----bis(2-Chloroethoxy) methane 350 U 350 LU 120-83-2----2,4-Dichlorophenol 350 U 120-82-1----1,2,4-Trichlorobenzene 350 U 91-20-3----Naphthalene 350 U 106-47-8-----4-Chloroaniline 350 U 87-68-3-----Hexachlorobutadiene 350 U 59-50-7----4-Chloro-3-methylphenol 350 U 91-57-6----2-Methylnaphthalene 77-47-4-----Hexachlorocyclopentadiene 350 U 88-06-2----2,4,6-Trichlorophenol 350 U 95-95-4-----2,4,5-Trichlorophenol_ 880 U 350 U 91-58-7----2-Chloronaphthalene___ 88-74-4----2-Nitroaniline 880 U 350 U 131-11-3-----Dimethylphthalate 350 U 208-96-8-----Acenaphthylene 606-20-2----2,6-Dinitrotoluene 350 U 99-09-2----3-Nitroaniline_____ 880 U 350 U 83-32-9-----Acenaphthene

FORM I SV-1

CP 9-14990LM03.0

Lab Name: COMPUCHEM Contract: 68D50004 _____

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950233

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050233B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 6 decanted: (Y/N) N Date Extracted: 07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG (

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FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP420

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950233

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: GH050233B70

Level: (low/med)

LOW

Date Received: 07/10/99

% Moisture: 6

decanted: (Y/N) N

Date Extracted: 07/12/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.3

Number TICs found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 95-16-9 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	UNKNOWN (BC) Lab Cont. BENZOTHIAZOLE UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN PHTHALATE UNKNOWN PHTHALATE UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	6.78 9.23 15.40 15.99 16.02 16.17 16.28 16.85 17.15 18.07 18.17 18.20 18.25 18.49 18.57 22.34 23.08 23.57 25.82	110 93 110 130 120 110 100 96 220 130 220 150 160 280	אטא טטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט
23. 24. 25. 26. 27. 28. 29.				

FORM I SV-TIC

JP421 Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Lab Sample ID: 950234 Matrix: (soil/water) SOIL

Lab File ID: GH050234B70 Sample wt/vol: 30.0 (g/mL) G

Level: (low/med) LOW Date Received: 07/10/99

Date Extracted:07/12/99 % Moisture: 8 decanted: (Y/N) N

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

		**	
	108-95-2Phenol 111-44-4bis(2-Chloroethyl)ether 95-57-82-Chlorophenol 541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene 95-50-11,2-Dichlorobenzene 95-48-72-Methylphenol 108-60-12,2'-oxybis(1-Chloropropane) 106-44-54-Methylphenol 621-64-7N-Nitroso-di-n-propylamine 67-72-1Hexachloroethane 98-95-3Nitrobenzene 78-59-1Isophorone 88-75-52-Nitrophenol 105-67-92,4-Dichlorophenol 111-91-1bis(2-Chloroethoxy)methane 120-83-22,4-Dichlorophenol 120-82-11,2,4-Trichlorobenzene 91-20-3Naphthalene 106-47-84-Chloroaniline 87-68-3		360 360 360 360 360 360 360 360 360 360
· ·	91-20-3Naphthalene 106-47-84-Chloroaniline 87-68-3Hexachlorobutadiene 59-50-74-Chloro-3-methylphenol 91-57-62-Methylnaphthalene		360 U 360 U 360 U 360 U 360 U

FORM I SV-1

G-14-99 OLMO3.0

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950234

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050234B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 8 decanted: (Y/N) N Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) UG/KG Q 900 U 51-28-5----2,4-Dinitrophenol____ 100-02-7----4-Nitrophenol 900 U 360 U 132-64-9-----Dibenzofuran 360 U 121-14-2----2,4-Dinitrotoluene____ 360 U 84-66-2-----Diethylphthalate 360 U 360 U 7005-72-3----4-Chlorophenyl-phenylether 86-73-7-----Fluorene 900 U 900 U 100-01-6----4-Nitroaniline 534-52-1----4,6-Dinitro-2-methylphenol 360 U 86-30-6----N-nitrosodiphenylamine (1) 360 U 101-55-3----4-Bromophenyl-phenylether 360 U 118-74-1-----Hexachlorobenzene 900 UJ 87-86-5----Pentachlorophenol 85-01-8-----Phenanthrene 360 U 120-12-7-----Anthracene 360 U 86-74-8-----Carbazole 360 U 84-74-2-----Di-n-butylphthalate 360 U 206-44-0-----Fluoranthene 360 U 129-00-0-----Pyrene 360 U 85-68-7-----Butylbenzylphthalate 360 U 91-94-1----3,3'-Dichlorobenzidine 360 U 56-55-3----Benzo(a)anthracene___ 360 U 218-01-9-----Chrysene 360 U 117-81-7-----bis(2-Ethylhexyl)phthalate 360 U 117-84-0-----Di-n-octylphthalate__ 360 U 205-99-2----Benzo(b) fluoranthene 360 U 207-08-9-----Benzo(k) fluoranthene 360 U 50-32-8-----Benzo(a)pyrene_ 360 U 193-39-5----Indeno(1,2,3-cd)pyrene_ 360 U 53-70-3-----Dibenzo(a,h)anthracene 360 U 360 U 191-24-2----Benzo(g,h,i)perylene (1) - Cannot be separated from Diphenylamine

FORM I SV-2

OLMO3.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

TENTATIVELY IDENTIFIED COMPOUNDS

JP421

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Cabe No.: 2/103 BAB No.: BBG No.: 0141

Matrix: (soil/water) SOIL Lab Sample ID: 950234

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH050234B70

Level: (low/med) LOW Date Received: 07/10/99

% Moisture: 8 decanted: (Y/N) N Date Extracted: 07/12/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

Number TICs found: 23 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

I	·			·			
CAS NUMBER		COMPOUND	NAME-	- RT	EST. (CONC.	Q
=======================================	=======			=======	=======		=====
-1	TINKNOWN	(BC) Lab	Cont.	6.78		130	JB-R
1 2.	UNKNOWN	()	•	7.30		85	J.Ņ
] 3.	UNKNOWN			10.73		230	J
1 4	UNKNOWN				1	170	J
5.			•	10.87			
	UNKNOWN	,		15.82		280	101
6. 7.	DDD/DDT			16.78		160	
, · -	UNKNOWN		• •	16.98		140	J
8.	UNKNOWN		:	17.81		170	J
9.	UNKNOWN			19.55		280	J
10.	UNKNOWN			19.77	3 1	320	J
11.	UNKNOWN			20.04	1.	200	J
12.	UNKNOWN	*		20.19		210	J
13.	UNKNOWN		•	20.82	ŀ	270	J
14.	UNKNOWN			22.12		270	J
15.	UNKNOWN	,		22.26			J
16				22.26		200	
16. 17.	UNKNOWN	· ,		22.34		350	J
1 1/.	UNKNOWN	•		23.07		160	J
18.	UNKNOWN	•		23.59		200	J
19.	UNKNOWN		•	23.86		230	J
20.	UNKNOWN			25.23		190	J]
21.	UNKNOWN	•		25.60		250	J
22.	UNKNOWN			25.72	,	250	J
23.	UNKNOWN			25.82	,	160	J
24.	OMIGNOMIA	•		23.02		ŤOO	10*
25.						·	<u> </u>
26.				-			
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27.	.						
28.		•					
29.							•
30.							
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FORM I SV-TIC

JP422 Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Lab Sample ID: 950235 Matrix: (soil/water) SOIL

Lab File ID: GH050235B70 Sample wt/vol: 30.0 (g/mL) G

Level: (low/med) LOW Date Received: 07/10/99

Date Extracted:07/12/99 % Moisture: 15 decanted: (Y/N) N

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/15/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	(ug/L o	r ug/Kg		Q	!
108-95-2	Phenol	Ebyl Voebox		390 390		

			· · · · · · · · · · · · · · · · · · ·	<u> </u>	·	
	108-95-2Phenol			U	.	
١	111-44-4bis(2-Chloroethyl)e	ther	2201	Ŭ		
۱	95-57-82-Chlorophenol			Ŭ.		
١	541-73-11,3-Dichlorobenzene	•	2201	U	.	
1	106-46-71,4-Dichlorobenzene		,,	U		
١	95-50-11,2-Dichlorobenzene		390	U	.	
١	95-48-72-Methylphenol		1	U.	. [
١	108-60-12;2'-oxybis(1-Cnior	opropane)	390	U	ŀ	
١	106-44-54-Methylphenol		390	U		
	621-64-7N-Nitroso-di-n-prop	ylamine	390	U		
	67-72-1Hexachloroethane		390	Ū		
	98-95-3Nitrobenzene		390		.	
	78-59-1Isophorone		390	U	. [
	88-75-52-Nitrophenol		390			
	105-67-92,4-Dimethylphenol_		390		1	
	111-91-1bis(2-Chloroethoxy)	methane	390			
	120-83-22,4-Dichlorophenol_		390	•		
	120-82-11,2,4-Trichlorobenz	ene	390	U.	. 1	
	91-20-3Naphthalene	1,47	390	U .	.	
	106-47-84-Chloroaniline		390	U	.	
	87-68-3Hexachlorobutadiene		390	Ū		
	59-50-74-Chloro-3-methylph	enol	. 390			
	91-57-62-Methylnaphthalene		390			
	77-47-4Hexachlorocyclopent	adiene	390			
	88-06-22,4,6-Trichlorophen	ıol	390			
	95-95-42,4,5-Trichloropher 91-58-72-Chloronaphthalene	iol	980		.	
	91-58-72-Chloronaphthalene	3	390		•	
	88-74-42-Nitroaniline		980	3	:	
	131-11-3Dimethylphthalate		390			l
	208-96-8Acenaphthylene		390			ĺ
	606-20-22;6-Dinitrotoluene		390	3		ĺ
	99-09-23-Nitroaniline		980		-	l
	83-32-9Acenaphthene		390	U		
	-					i

FORM I SV-1

JP422

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950235

CONCENTRATION UNITS:

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH050235B70

Level: (low/med) LOW'

Date Received: 07/10/99

% Moisture: 15 decanted: (Y/N) N

Date Extracted:07/12/99

Concentrated Extract Volume: 500(uL)

Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.3

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

	CAD NO.	COMPOUND	(dg/L or dg/Rg	,, 55,165		×	
	51-28-5	-2,4-Dinitrophenol -4-Nitrophenol -Dibenzofuran -2,4-Dinitrotolue -Diethylphthalate -4-Chlorophenyl-p -Fluorene -4-Nitroaniline -4,6-Dinitro-2-me -N-nitrosodipheny -4-Bromophenyl-ph -Hexachlorobenzen -Pentachloropheno -Phenanthrene -Anthracene -Carbazole -Di-n-butylphthal -Fluoranthene -Pyrene -Butylbenzylphtha -3,3'-Dichloroben -Benzo(a) anthrace -Chrysene -bis(2-Ethylhexyl -Di-n-octylphthal -Benzo(b) fluorant -Benzo(a) pyrene -Indeno(1,2,3-cd)	l henylether thylphenol_ lamine (1) enylether e l ate late zidine ne)phthalate atehene hene pyrene	-	980 980 980 390 390 390 980 390 980 980 980 980 980 980 980 990 990 9	J	
	53-70-3	-Indeno(1,2,3-cd) -Dibenzo(a,h)anth -Benzo(g,h,i)pery	racene		390 U 390 U	ī	
(:) - Cannot be se	parated from Diph	enylamine		_ا رم	 P 9-	14-99
	·	FORM I S	SV-2			, OI	LM03.0

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP422 Lab Name: COMPUCHEM Contract: 68D50004

Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950235

Sample wt/vol:

Lab Code: COMPU

30.0 (g/mL) G

Lab File ID: GH050235B70

Level: (low/med) LOW

Date Received: 07/10/99

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 07/12/99

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.3

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT 6.78	EST. CONC.	Q ===== m_R
2. 3. 4.	UNKNOWN AMIDE UNKNOWN UNKNOWN UNKNOWN	17.15 25.35 25.72 25.80	140 130 92 97	JB-R JN JN JN
6. 7.				
8.				
10. 11. 12.				
13.				
15. 16.		-		
18. 19.				
20.				
22. 23. 24.				
25. 26.				
27. 28.				
29. 30.				.

JP428

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab File ID:

GR050544B70

Sample wt/vol: 30.0 (g/mL) G

CONCENTRATION UNITS:

Level: (low/med)

LOW

Date Received: 07/14/99

% Moisture: 7 decanted: (Y/N) N

Date Extracted:07/29/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/31/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

Lab Sample ID: 950544

GPC Cleanup: (Y/N) Y

pH: 7.6

CAS NO.	COMPOUND	(ug/L or ug/K		Q	
95-57-8 541-73-1 106-46-7 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 98-95-3 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 91-58-7 91-57-6 91-57-6 91-58-7	Phenolbis(2-Chloroet2-Chlorophenol1,3-Dichlorobe1,4-Dichlorobe1,2-Dichlorobe2,Methylphenol2,2'-oxybis(14-MethylphenolNitroso-di-rHexachloroetheIsophorone2,4-Dimethylphenol2,4-Dimethylphenol2,4-Dichlorophenol2,4-Trichlor1,2,4-TrichlorNaphthalene4-Chloroanilin4-Chloro-3-methylphenol2-Methylnaphthe2,4,5-Trichlor2,4,5-Trichlor2,4,5-Trichlor2,4,5-Trichlor2,4,5-Trichlor2,6-Dinitroto2,6-Dinitroto3-NitroanilinAcenaphthene	enzene enzene enzene enzene enzene enzene enzene enzene enzene enzene en- en- en- en- en- en- en- en- en-	350 350 350 350 350 350 350 350 350 350	ממממממממן מממנים מממממממממממם מממממם ממממם ממממם	

JP428 Contract: 68D50004

Lab Name: COMPUCHEM

SDG No.: JP410 SAS No.: Lab Code: COMPU Case No.: 27165

Lab Sample ID: 950544 Matrix: (soil/water) SOIL

GR050544B70 Lab File ID: ..30:0 (g/mL) G Sample wt/vol:

Date Received: 07/14/99 Level: (low/med) LOW

Date Extracted: 07/29/99 % Moisture: 7 decanted: (Y/N) N

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/31/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) Y pH: 7.6 CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG COMPOUND CAS NO. 890 U J 51-28-5----2,4-Dinitrophenol_____ 890 I U 100-02-7----4-Nitrophenol 350 U 132-64-9-----Dibenzofuran 121-14-2----2,4-Dinitrotoluene 350 l U 350 | U 84-66-2-----Diethylphthalate 350 U 7005-72-3----4-Chlorophenyl-phenylether_ 3,50 ١U 86-73-7-----Fluorene . 890 100-01-6-----4-Nitroaniline 890 U 534-52-1-----4,6-Dinitro-2-methylphenol 86-30-6----N-nitrosodiphenylamine_(1) 350 U 101-55-3----4-Bromophenyl-phenylether_ 350 U 350. U 118-74-1-----Hexachlorobenzene U 890 87-86-5-----Pentachlorophenol 350 U 85-01-8-----Phenanthrene 350 U 120-12-7-----Anthracene 350 U 86-74-8-----Carbazole 350 U 84-74-2-----Di-n-butylphthalate 350 U 206-44-0----Fluoranthene 49 J 129-00-0----Pyrene 350 U 85-68-7-----Butylbenzylphthalate 350 U 91-94-1----3,3'-Dichlorobenzidine_ 350 U 56-55-3-----Benzo(a)anthracene_ 350 U 218-01-9-----Chrysene 350 U 117-81-7-----bis(2-Ethylhexyl)phthalate 350 U 117-84-0-----Di-n-octylphthalate 350 U 205-99-2----Benzo(b) fluoranthene 350 U 207-08-9-----Benzo(k)fluoranthene_ 350 U 50-32-8-----Benzo(a)pyrene 193-39-5----Indeno(1,2,3-cd)pyrene 350 U 53-70-3-----Dibenzo(a,h)anthracene 350 U 350 U ♥ 191-24-2----Benzo(g,h,i)perylene_ (i) - Cannot be separated from Diphenylamine OLM03.0

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP428

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950544

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: GR050544B70

Level: (low/med) LOW

decanted: (Y/N) N

Date Received: 07/14/99 Date Extracted:07/29/99

% Moisture: 7

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/31/99

Injection Volume:

2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

1. UNKNOWN 16.73 980 J 2. UNKNOWN 17.29 960 J 3. UNKNOWN 17.59 890 J 4. UNKNOWN 17.76 830 J 5. UNKNOWN 17.83 1100 J 6. UNKNOWN 17.98 880 J 7. UNKNOWN 18.06 1600 J 8. UNKNOWN 18.16 900 J 9. UNKNOWN 18.25 1100 J 10. UNKNOWN 18.45 1300 J 11. UNKNOWN 18.52 1700 J 12. UNKNOWN 18.65 1100 J 13. UNKNOWN 18.65 1100 J 14. UNKNOWN 18.65 1100 J 15. UNKNOWN 18.86 830 J 15. UNKNOWN 18.99 1300 J 16. UNKNOWN 18.99 1300 J 17. UNKNOWN 18.99 1300 J 18. UNKNOWN 19.03 990 J 17. UNKNOWN 19.20 1000 J 18. UNKNOWN 19.20 1000 J 18. UNKNOWN 19.20 1000 J 18. UNKNOWN 19.42 910 J 19. UNKNOWN 19.42 910 J 19. UNKNOWN 19.52 860 J 20. UNKNOWN 19.52 860 J 21. UNKNOWN 19.52 860 J 22. UNKNOWN 19.55 830 J 23. UNKNOWN 19.99 660 J 24. UNKNOWN 20.18 830 J 25. UNKNOWN 20.18 830 J 25. UNKNOWN 20.18 830 J 25. UNKNOWN 20.18 830 J 25. UNKNOWN 20.18 830 J 27. UNKNOWN 20.18 830 J 28. UNKNOWN 20.92 880 J 29. UNKNOWN 20.92 880 J 29. UNKNOWN 20.92 880 J 29. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.29 590 J 30. UNKNOWN 21.99 550 J 30. UNKNOWN

JP429 Contract: 68D50004 Lab Name: COMPUCHEM

SDG No.: JP410 Lab Code: COMPU Case No.: 27165 SAS No.:

Lab Sample ID: 950545 Matrix: (soil/water) SOIL

Lab File ID: GH050545A66 Sample wt/vol: 30.2 (g/mL) G

Date Received: 07/14/99 Level: (low/med) LOW

Date Extracted: 07/16/99 decanted: (Y/N) N % Moisture: 23

Date Analyzed: 07/27/99 Concentrated Extract Volume: 500 (uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) Y 5 pH: 7.0

CAS NO.

CONCENTRATION UNITS:

COMPOUND 420 U 108-95-2-----Phenol 420 U 111-44-4-----bis(2-Chloroethyl)ether 420 U 95-57-8----2-Chlorophenol 420 U 541-73-1----1,3-Dichlorobenzene 420 U 106-46-7----1,4-Dichlorobenzene 420 U 95-50-1----1,2-Dichlorobenzene 95-48-7----2-Methylphenol 420 U 108-60-1----2,2'-oxybis(1-Chloropropane) 420 U 420 U 106-44-5----4-Methylphenol 621-64-7----N-Nitroso-di-n-propylamine 420 U 67-72-1-----Hexachloroethane 420 U 98-95-3-----Nitrobenzene 420 U 78-59-1-----Isophorone 420 U 88-75-5----2-Nitrophenol 420 U 105-67-9-----2,4-Dimethylphenol 420 U 111-91-1----bis(2-Chloroethoxy)methane_ 420 U 420 U 120-83-2----2,4-Dichlorophenol 420 U 120-82-1----1,2,4-Trichlorobenzene 120 J 91-20-3-----Naphthalene 106-47-8-----4 Chloroaniline 420 U 420 87-68-3------Hexachlorobutadiene U 59-50-7----4-Chloro-3-methylphenol 420 U 160 J 91-57-6----2 Methylnaphthalene

(ug/L or ug/Kg) UG/KG

FORM I SV-1

77-47-4-----Hexachlorocyclopentadiene

88-06-2----2,4,6-Trichlorophenol_

95-95-4-----2,4,5-Trichlorophenol_

91-58-7----2-Chloronaphthalene_

131-11-3-----Dimethylphthalate

606-20-2----2,6-Dinitrotoluene 99-09-2----3-Nitroaniline

88-74-4----2-Nitroaniline

208-96-8-----Acenaphthylene

83-32-9-----Acenaphthene

9-14-99 OLMO3.0

420 U

420 U

420 U

420 U 420 U

420 U

1100 U 420 U

1100 U

1100 U

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950545

Sample wt/vol: 30.2 (g/mL) G Lab File ID: GH050545A66

Level: (low/med) LOW Date Received: 07/14/99

% Moisture: 23 decanted: (Y/N) N Date Extracted:07/16/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/27/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

			CONCENTRA	ATION U	NITS:				
	CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UĢ/K G		Ç	<u>)</u>	
(-	51-28-5 100-02-7 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 87-86-5 85-01-8 85-01-8 206-44-0 206-44-0 129-00-0 85-68-7 218-01-9 56-55-3 218-01-9 117-84-0 205-99-2 117-84-0 205-99-2 117-84-0 205-99-2 117-84-0 205-99-2 117-84-0 117-84-0 205-99-2 117-84-0	2,4-Dinitrophe4-NitrophenolDibenzofuran2,4-DinitrotolDiethylphthala4-ChlorophenylFluorene4,6-Dinitro-2N-nitrosodiphe4-BromophenylHexachlorobenzPentachlorophePhenanthreneCarbazoleDi-n-butylphthFluoranthenePyreneButylbenzylpht	methylphenonylamine (1 phenylether ene nol enzidine cene cyl) phthalate anthene enthracene cylene crylene	e	110 110 42 42 42 110 110 42 42 42 42 42 42 42 42 42 42 42 42 42	00 00 00 00 00 00 00 00 00 00 00 00 00	ממיממם יים ממממממממממממממממממממממממממממ		
			- <u>-</u>		· A	\mathscr{N}		1.9	-

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

JP429

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950545

Sample wt/vol:

30.2 (g/mL) G

Lab File ID: GH050545A66

Level: (low/med)

Date Received: 07/14/99

decanted: (Y/N) N

Date Extracted: 07/16/99

LOW

Date Analyzed: 07/27/99

Concentrated Extract Volume: 500(uL)

% Moisture: 23

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.0

Number TICs found: 22

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	ETHYLMETHYLBENZENE UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	5.10 15.57 15.97 18.44 19.28 19.85 20.51 20.55 20.69 20.92 21.04 21.27 21.35 21.46 21.76 21.86 22.04 22.74 23.09 23.58	600 690	\
20. 21. 22. 23. 24. 25. 26. 27. 28. 29.	UNKNOWN UNKNOWN	23.56 23.79 26.21		[J

PESTICIDE ORGANICS ANALYSIS DATA SHEET

JP410

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 949999

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 9

decanted: (Y/N) N Date Received: 07/09/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:07/09/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/11/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor 309-00-2Aldrin 1024-57-3Heptachlor epoxide 959-98-8Endosulfan I 72-55-94,4'-DDE 72-20-8Endrin 33213-65-9Endosulfan II 72-54-84,4'-DDD 1031-07-8Endosulfan sulfate 50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2	9298986667421114950000000000000000000000000000000000

CP 9-15-99

PESTICIDE ORGANICS ANALYSIS DATA SHEET

JP410DL

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 949999

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 07/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/09/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/19/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

72-43-5			
8001-35-2Toxaphene 370 U 12674-11-2Aroclor-1016 72 U 11104-28-2Aroclor-1221 150 U 11141-16-5Aroclor-1232 72 U 53469-21-9Aroclor-1242 72 U 12672-29-6Aroclor-1248 72 U 11097-69-1Aroclor-1254 72 U	319-85-7 319-86-8 58-89-9 76-44-8 309-00-2 1024-57-3 959-98-8 72-55-9 72-55-9 72-20-8 33213-65-9 72-54-8 1031-07-8 50-29-3 72-43-5 5103-71-9 5103-74-2 8001-35-2 12674-11-2 11104-28-2 11141-16-5 53469-21-9	beta-BHCdelta-BHCgamma-BHC (Lindane)HeptachlorAldrinHeptachlor epoxideEndosulfan I0ieldrin4,4'-DDEEndrin4,4'-DDDEndosulfan sulfate4,4'-DDTMethoxychlorEndrin ketoneEndrin aldehydealpha-Chlordanegamma-ChlordaneToxapheneAroclor-12121Aroclor-1242	3.7 2.5 DJPEN 3.7 U 3.7 DJP U 3.7 U 3.7 U 3.7 U 3.7 U 46 DB 7.2 DJP U 46 DB 7.2 U 44 DJP U 7.2 DJP U
		•	

Cf 9-15-99

EPA SAMPLE NO.

JP418 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410 Matrix: (soil/water) SOIL Lab Sample ID: 950231 Sample wt/vol: 30.0 (g/mL) G Lab File ID: % Moisture: 11 decanted: (Y/N) N Date Received: 07/10/99 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/13/99 Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/18/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 319-84-6-----alpha-BHC 319-85-7-----beta-BHC 1.9 U 319-86-8-----delta-BHC 1.9 U 58-89-9-----gamma-BHC (Lindane) 1.9 U 76-44-8-----Heptachlor 1.9 U 309-00-2-----Aldrin 1.9 U 1.9 U 1024-57-3-----Heptachlor epoxide 959-98-8-----Endosulfan I 1.9 U 60-57-1-----Dieldrin 3.7 1.4 D-21 3U 72-55-9-----4,4'-DDE 4.8 3.7 0.16 JPU 72-20-8-----Endrin 33213-65-9----Endosulfan II 3.7 U 72-54-8-----4,4'-DDD 3.2 JB 1031-07-8-----Endosulfan sulfate 3.7 U 50-29-3----4,4'-DDT 0.89 JPB 72-43-5-----Methoxychlor 19 U 53494-70-5----Endrin ketone 3.7 D-14 JEU 7421-93-4----Endrin aldehyde 3.7 U 1.9 U 5103-71-9----alpha-Chlordane 1.9 0-12 JPU 5103-74-2----gamma-Chlordane 190 U 8001-35-2-----Toxaphene 12674-11-2----Aroclor-1016_ 37 U 11104-28-2----Aroclor-1221 75 U 11141-16-5----Aroclor-1232_ 37 U 53469-21-9----Aroclor-1242 37 U

09 15,99

37 U

37 U

37 U

FORM I PEST

12672-29-6----Aroclor-1248_

11097-69-1----Aroclor-1254

11096-82-5----Aroclor-1260

JP420

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950233

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 6 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO. COMPOUND (Ug/II OI Ug/	-13/	00, 10		*	 .
	319-84-6alpha-BHC			1.8		
ı	319-85-7beta-BHC		4	2.3	严丁	- 1
١	319-86-8delta-BHC	•		1.8	U	١
١	58-89-9gamma-BHC (Lindane)			1.8		- 1
١	76-44-8Heptachlor			1.8		
i	309-00-2Aldrin			1.8		
ı	1024-57-3Heptachlor epoxide			1.8	U	
١	959-98-8Endosulfan I		5	1.8	U,	
1	60-57-1Dieldrin		3.5	D-13	JP U	
١	72-55-94,4'-DDE	4	, -	6.9		
١	72-20-8Endrin		3.5	0.20	JPU	
1	33213-65-9Endosulfan II			3.5		•
١	72-54-84,4'-DDD			2.7		
	1031-07-8Endosulfan sulfate		3.5	0.19	JPU	
	50-29-34,4'-DDT			2.6		
	72-43-5Methoxychlor		18	0.36	JP U	
	53494-70-5Endrin ketone		•	3.5	Ū	
	7421-93-4Endrin aldehyde			3.5	U	
	5103-71-9alpha-Chlordane			1.8	U	
	5103-74-2gamma-Chlordane			1.8	U	
	8001-35-2Toxaphene		•	180		
	12674-11-2Aroclor-1016		. •	35		
į	11104-28-2Aroclor-1221			71		
	11141-16-5Aroclor-1232		٠.	35		
1	53469-21-9Aroclor-1242			. 35		
	12672-29-6Aroclor-1248				U	
	11097-69-1Aroclor-1254	7 7			ן ט יי	
	11096-82-5Aroclor-1260			35	U .	
					<u>.</u>	

V9-15-99

JP421 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950234

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 8 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/18/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 319-84-6----alpha-BHC 3.7 U 3.7 0.66 JP U 3.7 0.34 JP U 3.7 U 3.7 U 319-85-7-----beta-BHC_ 319-86-8-----delta-BHC 58-89-9----gamma-BHC (Lindane) 76-44-8-----Heptachlor 309-00-2----Aldrin 3.7 U 1024-57-3-----Heptachlor epoxide____ 3.7 0.19 IPBU 3.7 U 959-98-8-----Endosulfan I_____ 60-57-1-----Dieldrin 7.2 3.7 0.66 JPU 72-55-9-----4,4'-DDE 24 72-20-8-----Endrin 7.2 0 33213-65-9----Endosulfan II 7.2 U 72-54-8-----4,4'-DDD 90 18 1031-07-8-----Endosulfan sulfate 7.2 1-6 JPU 7.2 3.4 JPBU 50-29-3-----4,4'-DDT 72-43-5-----Methoxychlor 37 4.0 JU 7.2 U 53494-70-5----Endrin ketone 7421-93-4----Endrin aldehyde 7.2 0 5103-71-9----alpha-Chlordane 5103-74-2----gamma-Chlordane 2.4 J 370 U 8001-35-2-----Toxaphene 12674-11-2----Aroclor-1016__ 72 U 11104-28-2----Aroclor-1221 140 U 11141-16-5----Aroclor-1232 72 U 53469-21-9----Aroclor-1242 72 U 12672-29-6----Aroclor-1248 72 U 11097-69-1----Aroclor-1254 72 U 11096-82-5----Aroclor-1260 72 U

9-15-99

JP422

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950235

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 15 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG C

**************************************			• •••		
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			0 0	T+
	alpha-BHC			2.0	
	beta-BHC		2.0		
	delta-BHC	1		2.0	
	gamma-BHC (Lindane)	1		2.0	1
	Heptachlor			2.0	
	Aldrin	1		2.0	
	Heptachlor epoxide				U
959-98-8	Endosulfan I	5		2.0	
	Dieldrin			3.9	ן ט
72-55-9	4,4'-DDE	1.555	3.9	2.32	JP.U
72-20-8	Endrin		Į.	3.9	
33213-65-9-	Endosulfan II			3.9	
72-54-8	4,4'-DDD		3.9	D-29	JPBU
1031-07-8	Endosulfan sulfate			3.9	
	4,4'-DDT	1.37	3.9	0.22	JB U
72-43-5	Methoxychlor	10 m 10 m 10 m 10 m 10 m 10 m 10 m 10 m		. 20	ĮŪ
53494-70-5-	Endrin ketone		*	3.9	
7421-93-4	Endrin aldehyde	A Section		3.9	
5103-71-9	alpha-Chlordane			2.0	
5103-74-2	gamma-Chlordane			2.0	Ü
8001-35-2	Toxaphene	Line in the		200	
	Aroclor-1016			39	U
	Aroclor-1221			79	
11141-16-5-	Aroclor-1232	1 12 4		39	U .
	Aroclor-1242	1,315		39	U
	Aroclor-1248		•	39	
	Aroclor-1254			39	U
	Aroclor-1260	<u>'</u>		39	U
		1	** * **		
		. 1			

W5-15-99

JP428 Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950544

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 7 decanted: (Y/N) N Date Received: 07/14/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/16/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/19/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/KG

(49/11 01	2 49/119/ 66/116 9
319-84-6	1.8 U 1.8 U
53469-21-9Aroclor-1242	35 U

FORM I PEST

JP429

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950545

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 07/14/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/16/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/19/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	(49,7 01 49	, ng, 00, no
210 04 6	-1-1	
319-84-6	alpha-BHC	2.2 U
319-85-7	bera-BHC	2.2 1-6 24
213-00-0	delta-BHC	2.2 U
76 44 0	gamma-BHC (Lindane)	2.2 U
76-44-8	Heptachlor	2.2 U
309-00-2		2.2 0.089 JPU
1024-5/-3	Heptachlor epoxide	2.2 U
959-98-8	Endosulfan I	2.2 D-40 FP4
60-57-1		4.3 2.2 FEU
72-55-9		25 3
72-20-8	Endrin	4.3 U
	Endosulfan II	4.3 U
72-54-8		44 18
1031-07-8	Endosulfan sulfate	4.3 1.0 14
50-29-3	4,4'-DDT	4.3 1-4 JPBU
/2-43-5	Methoxychlor	22 U
53494-70-5	Endrin ketone	4.3 -0-21 JPU
7421-93-4	Endrin aldehyde	4.3 U
5103-71-9	alpha-Chlordane	3.9
5103-74-2	gamma-Chlordane	4.6 PJ
	Toxaphene	220 U
	Aroclor-1016	43 U
	Aroclor-1221	87 U
	Aroclor-1232	43 U
	Aroclor-1242	43 U
	Aroclor-1248	43 U
	Aroclor-1254	43 U
11096-82-5	Aroclor-1260	43 U

CP G-15-99

JW585

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950236

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 18 Date Received: 07/10/99 decanted: (Y/N) N

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/20/99

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: COMPOUND CAS NO. (uq/L or ug/Kg) UG/KG

termination to the confidence of the confidence		<u> </u>
319-84-6alpha-BHC	10	U
319-85-7beta-BHC	10	U
319-86-8delta-BHC	10	U
58-89-9gamma-BHC (Lindane)		U
76-44-8Heptachlor		U
309-00-2Aldrin	10	U ·
1024-57-3Heptachlor epoxide	10	U
959-98-8Endosulfan I	10	U
60-57-1Dieldrin	20	U
72-55-94,4'-DDE	750	ECJ
72-20-8Endrin		JPU
33213-65-9Endosulfan II		U
72-54-84,4'-DDD	12	J₽₽
1031-07-8Endosulfan sulfate	. 72	
50-29-34,4'-DDT	440	EBEJ
72-43-5Methoxychlor	/00 4.2	JPU
53494-70-5Endrin ketone		U
7421-93-4Endrin aldehyde		U .
5103-71-9alpha-Chlordane	10	U
5103-74-2gamma-Chlordane		U
8001-35-2Toxaphene	1000	U
12674-11-2Aroclor-1016		1 -
11104-28-2Aroclor-1221	410	
11141-16-5Aroclor-1232	200	
53469-21-9Aroclor-1242	200	U
12672-29-6Aroclor-1248	200	U
11097-69-1Aroclor-1254	200	Ū
11096-82-5Aroclor-1260	200	U
	· · · · · · · · · · · · · · · · · · ·	

CP G-15-99

JW585DL

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950236

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/19/99

Injection Volume: 2.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	(-5, = -= 5,	.				
76-44-8 309-00-2 1024-57-3 959-98-8 72-55-9 72-55-9 72-20-8 33213-65-9 1031-07-8 50-29-3 72-43-5 53494-70-5 7421-93-4 5103-71-9 5103-74-2 1104-28-2 11141-16-5 53469-21-9	-beta-BHC -delta-BHC -gamma-BHC (Lindane) -Heptachlor -Aldrin -Heptachlor epoxide -Endosulfan I -Dieldrin -4,4'-DDE -Endrin -Endosulfan II -4,4'-DDD -Endosulfan sulfate -4,4'-DDT -Methoxychlor -Endrin aldehyde -alpha-Chlordane -gamma-Chlordane -gamma-Chlordane -Toxaphene -Aroclor-1212 -Aroclor-1242		200	100 100 100 100 200 200 200 200 200 200		
11141-16-5	-Aroclor-1232 -Aroclor-1242 -Aroclor-1248 -Aroclor-1254		; ;	2000	U U U	

Ng-15-99

EPA SAMPLE NO.

JW586

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950237

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 14 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/13/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 08/18/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.4

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug)	/Kg) UG/KG	Q
58-89-9 76-44-8 309-00-2 1024-57-3 959-98-8 72-55-9 72-55-9 72-54-8 1031-07-8 50-29-3 53494-70-5 7421-93-4 5103-71-9 5103-74-2 11104-28-2 11141-16-5 53469-21-9	alpha-BHCbeta-BHCdelta-BHCgamma-BHC (Lindane)HeptachlorAldrinHeptachlor epoxideEndosulfan IDieldrin4,4'-DDEEndrinendosulfan II4,4'-DDDEndosulfan sulfate4,4'-DDTMethoxychlorEndrin ketoneEndrin aldehydealpha-Chlordanegamma-Chlordanegamma-ChlordaneToxapheneAroclor-12121Aroclor-1242	2.0 2.0 2.0 2.0 2.0 2.0 2.0 3.8 0.45 3.8 3.8 3.8 3.8 3.8 3.8 3.8 2.0 2.0 2.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	
12672-29-6	Aroclor-1248 Aroclor-1254 Aroclor-1260	38 38 38	U U

of 9-15-99

FORM I PEST

Lab Name: COMPUCHEM Contract: 68D50004 _____

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950238

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 12 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

JW587DL

Contract: 68D50004 Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Lab Sample ID: 950238 Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 12 decanted: (Y/N) N Date Received: 07/10/99 Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/20/99

Injection Volume: 2.0(uL) Dilution Factor: 10.0

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y pH: 6.2

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

		.,	
319-84-6alpha-BHC		19	
319-85-7beta-BHC		. 19	
319-86-8delta-BHC		19	
58-89-9gamma-BHC (Lindane)		19	U
76-44-8Heptachlor		19	
309-00-2Aldrin		19	U
1024-57-3Heptachlor epoxide		19	
959-98-8Endosulfan I		1.4	p Jp
60-57-1Dieldrin		38	-
72-55-94,4'-DDE		290	De
72-20-8Endrin		3.8	U
33213-65-9Endosulfan II	,	38	
72-54-84,4'-DDD		38 2.4	DIPBU
1031-07-8Endosulfan sulfate		5.1	DJP
50-29-34,4'-DDT			DBC
72-43-5Methoxychlor		19023	Dou
53494-70-5Endrin ketone		38	ָ ט
7421-93-4Endrin aldehyde	1	38	U
5103-71-9alpha-Chlordane		19	U
5103-74-2gamma-Chlordane		19	U
8001-35-2Toxaphene		1900	U
12674-11-2Aroclor-1016		380	U
11104-28-2Aroclor-1221		760	υ.
11141-16-5Aroclor-1232		380	
53469-21-9Aroclor-1242	į	380	1
12672-29-6Aroclor-1248		380	
11097-69-1Aroclor-1254	1 .	380	1
11096-82-5Aroclor-1260		380	
11070-02-3-1-1-ALOCTOL 1200	1		1.
			. 1

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JW588

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950239

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 5

decanted: (Y/N) N

Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/13/99

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 08/18/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

		i.		
210-04-6 21mhn-PUC			1.8	U
319-84-6alpha-BHC 319-85-7beta-BHC		418	0.29	
		,	1.8	บ็
319-86-8delta-BHC	* .		1.8	
58-89-9gamma-BHC (Lindane)		*	1.8	Ü
76-44-8Heptachlor			1.8	Ü
309-00-2Aldrin			1.8	τī
1024-57-3Heptachlor epoxide	:		1.8	Ü
959-98-8Endosulfan I				•
60-57-1Dieldrin	1			
72-55-94,4'-DDE	10 1 14,		0.58	
72-20-8Endrin	1		3.5	T -
33213-65-9Endosulfan II			3.5	U
72-54-84,4'-DDD		3.5	0.17	
1031-07-8Endosulfan sulfate		_	3.5	
50-29-34,4'-DDT		3.5	0-23	
72-43-5Methoxychlor		•	18	U
53494-70-5Endrin ketone			3.5	ַן ד
7421-93-4Endrin aldehyde	1		3.5	U
5103-71-9alpha-Chlordane	.]		1.8	U
5103-74-2gamma-Chlordane			1.8	U
8001-35-2Toxaphene			180	U
12674-11-2Aroclor-1016		٠.	35	U
11104-28-2Aroclor-1221			70	U
11141-16-5Aroclor-1232			35	U
53469-21-9Aroclor-1242			35	
12672-29-6Aroclor-1248			35	
11097-69-1Aroclor-1246			35	บั
	·		35	
11096-82-5Aroclor-1260	-		55	
	.			.

JW589

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950240

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 0 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/kg) UG/kG Q

319-84-6	CAS NO. COMPOUND (ug/1 of ug/)	.g, 66, R6	×.
	319-85-7	1.7 0.076 1.7 1.7 1.7 0.26 3.3 0.25 3.3 0.52 3.3 0.52 3.3 0.52 17 3.3 1.7 3.3 1.7 3.3 1.7 3.3 1.7 3.3 3.3 1.7 3.3 3.3 3.3 1.7 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3	DAY DEPUTA TANTE UN UN UN UN UN UN UN UN UN UN UN UN UN

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JW590

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950241

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 4 decanted: (Y/N) N

Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/13/99

Concentrated Extract Volume: 5000(uL)

Injection Volume: 2.0(uL)

Date Analyzed: 08/18/99 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

		- ı ·
210 04 C -1-1- DVG		1
319-84-6alpha-BHC	1.8 U 1.8 0.44 JF U	
319-85-7beta-BHC 319-86-8delta-BHC		1
	1.8 U	
58-89-9gamma-BHC (Lindane)	1.8 U	
76-44-8Heptachlor	1.8 U	
309-00-2Aldrin	1.8 U	1
1024-57-3Heptachlor epoxide	1.8 U	
959-98-8Endosulfan I	1.8 U	
60-57-1Dieldrin	3.4 U	
72-55-94,4'-DDE	2.6 J	
72-20-8Endrin	3.4 0-25 JPU	
33213-65-9Endosulfan II	3.4 U	
72-54-84,4'-DDD	3.4 D.32 JBU	
1031-07-8Endosulfan sulfate	3.4 U	
50-29-34,4'-DDT	9.6 18	1
72-43-5Methoxychlor	18 0.74 JF U	
53494-70-5Endrin ketone	3.4 U	.
7421-93-4Endrin aldehyde	3.4 U	
5103-71-9alpha-Chlordane	1.8 U	
5103-74-2gamma-Chlordane	1.8 U	
8001-35-2Toxaphene	180 U	
12674-11-2Aroclor-1016	34 U	1.
11104-28-2Aroclor-1221	70 U	ľ
11141-16-5Aroclor-1232	34 U	1
53469-21-9Aroclor-1242	34 U	
12672-29-6Aroclor-1248	34 U	ŀ
11097-69-1Aroclor-1254	34 U	
11096-82-5Aroclor-1260	34 U	
		_
	. 0	-69
	[A . 14	571.
	U. 4-1	•

JW591

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950242

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 7 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/20/99

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	 <i>i</i> :		
319-84-6		9.1 9.1 9.1 9.1 9.1 9.1 7.3 1200 18 18 31	
			l

Mg-15-99

OLMO3.0

JW591DL

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950242

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 7

decanted: (Y/N) N

Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/13/99

Concentrated Extract Volume:

5000 (uL)

Date Analyzed: 08/20/99

Injection Volume:

CAS NO.

2.0 (uL)

COMPOUND

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y

pH: 6.5

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

• • • • • •			
319-84-6	alpha-BHC		91 U
319-85-7			91 U
319-86-8			91 U
	gamma-BHC (Lindane)		91 U
76-44-8	Hentachlor		91 U
309-00-2			91 U
	Heptachlor epoxide		91 U
959-98-8	Endosulfan I		91 U
60-57-1			180 U
72-55-9		•	1800 De
72-20-8			180 U
	Endosulfan II		180 U
72-54-8	4 4'-DDD		32 1 0J 1 18
1031-07-8	Endosulfan sulfate		16 ØJ
50-29-3	4 . 4 ' -DDT		1200 DBC
	Methoxychlor		910 U
	Endrin ketone		180 U
7421-93-4	Endrin aldehyde		180 U
	alpha-Chlordane		91 U
5103-74-2	gamma-Chlordane		91 U
8001-35-2	Toxaphene		9100 U
	Aroclor-1016		1800 U
	Aroclor-1221		3600 U
	Aroclor-1232		1800 U
	Aroclor-1242		1800 U
	Aroclor-1248		1800 U
	Aroclor-1254		1800 U
11096-82-5	Aroclor-1260		1800 U
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JW592 Contract: 68D50004

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950243

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 5 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND COMP

	1
319-84-6	1.8 0.42 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8

P 9-15-99

JW593
Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950244

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/18/99

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG (

319-84-6		·:	19	
319-85-7				
319-86-8			1.9	
58-89-9	gamma-BHC (Lindane)	•	19	
76-44-8	Heptachlor		19	_
309-00-2			19	U
	Heptachlor epoxide			
959-98-8			19	
60-57-1			36 9-2	
72-55-9				Ee 7
72-20-8			36	Ū
•	Endosulfan II		36	
72-54-8	4,4'-DDD			PBJ
	Endosulfan sulfate		37	产工一
50-29-3	4,4'-DDT		860	EBCJ
	Methoxychlor		190 25	BU
	Endrin ketone		36 3.0	THE (1
	Endrin aldehyde		36	
5103-71-9	alpha-Chlordane		19	U
5103-74-2	gamma-Chlordane		19	
8001-35-2			1900	1
12674-11-2	Aroclor-1016		360	
, :	Aroclor-1221		7 40) -
11141-16-5	Aroclor-1232		360	
	Aroclor-1242	1	360	1
12672-29-6	Aroclor-1248	1	360	
11097-69-1	Aroclor-1254		360	U
11096-82-5	Aroclor-1260		360	U
the second second				

Wg-15-99

JW593DL

Lab Name: COMPUCHEM Contract: 68D50004

ab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950244

 Sample wt/vol:
 30.0 (g/mL) G
 Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/20/99

Injection Volume: 2.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6		•
11096-82-5-1-1-AIOCIOI-1200	319-85-7	93 U 93 U 93 U 93 U 93 U 93 93 U 93 93 U 93 93 U 93 P P P P P P P P P P P P P P P P P P
		_ :

CP 9-15-99

JW594

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950245

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 5 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/13/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/18/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG (

UP 9-15-97

JW595

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950246

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 11 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/20/99

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

UP 9-15-59

JW595DL

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL Lab Sample ID: 950246

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 11 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/19/99

Injection Volume: 2.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

96 I U 319-84-6-----alpha-BHC 96 U 319-85-7-----beta-BHC 96 U 319-86-8-----delta-BHC 96 U 58-89-9-----gamma-BHC (Lindane) 96 | U 76-44-8-----Heptachlor 96 U 309-00-2-----Aldrin 1024-57-3-----Heptachlor epoxide 96 U 96 U 959-98-8-----Endosulfan I 180 U 60-57-1-----Dieldrin 1500 DC 180 U 72-55-9-----4,4'-DDE 72-20-8-----Endrin 180 U 33213-65-9----Endosulfan II 39 ØJ₽\$ 52 ØJ 72-54-8----4,4'-DDD 1031-07-8-----Endosulfan sulfate 580 DBC 50-29-3----4,4'-DDT 72-43-5-----Methoxychlor 960 IU 180 U 53494-70-5----Endrin ketone 7421-93-4----Endrin aldehyde 180 U 96 U 5103-71-9----alpha-Chlordane 96 U 5103-74-2----gamma-Chlordane 9600 U 8001-35-2----Toxaphene 1800 U 12674-11-2----Aroclor-1016 3800 U 11104-28-2----Aroclor-1221 1800 U 11141-16-5----Aroclor-1232 1800 53469-21-9----Aroclor-1242 1800 U 12672-29-6-----Aroclor-1248 1800 U 11097-69-1----Aroclor-1254 1800 U 11096-82-5----Aroclor-1260

UP 9-15-99

Lab Name: COMPUCHEM Contract: 68D50004

. JW596

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JP410

Matrix: (soil/water) SOIL

Lab Sample ID: 950248

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 5 decanted: (Y/N) N Date Received: 07/10/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:07/13/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/18/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

	(dg/H CI d	9/1/9/	06/1	NG.	. Q
319-84-6	alpha-BHC			1 0	
319-85-7	beta-BHC			1.8	
1 272-00-8	delta-BHC	-1	1.8	1.8	11
58-89-9	camma - BHC (Lindano)	-1	1.0		
/0-44-8	Hentachlor	-		1.8	
1 202-00-2	Aldrin	-		1.8	ĬΩ
1024-57-3	Hont noblem and all	-l [·]		1.8	Ŭ,
1 222220-8	- Undog: I fam T	-		1.8	Ū
60-57-1 72-55-9	Dieldrin	- '		1.8	U
72-55-9	4 4'-DDF	-		3.5	<u>ַ</u> עַ
/2-20-8	Endrin	-		2.3	
33213-65-9	Endogulfan II	-1		3.5	
/2-54-8	4 4'-DDD	_		3.5	U
1031-07-8	Endosulfan sulfate	-	3.5	0-12	
50-29-3	4 A'-DDT	-1		3.5	<u>U</u> ,,
72-43-5	Methoxychlor_	_	3.5	0.81	JPB U
53494-70-5	Endrin ketone	_		18	Ū
7421-93-4	Endrin aldehyde	_		3.5	U
5103-71-9	alpha-Chlordane	-1		3.5	U .
5103-74-2	gamma-Chlordane	_		1.8	Ū
8001-35-2	Townshape	_		1.8	Ū
12674-11-2	Aroclor-1016	_ .		.180	
11104-28-2-	Aroclor-1016	_ '		35.	
11141-16-5-	Aroclor-1221	_		. 70	
53469-21-9-	Aroclor-1232	_		35	
12672-29-6-	Aroclor-1242	_		35	
11097-69-1-	Aroclor-1248	_ -		. 35	
11096-82-5-	Aroclor-1254	_		35	U
	ATOCIOI-1260	_		. 35	U
		_			

Wq-15.99

FORM I PEST

1500 First Interstate Center, 999 Third Avenue Scattle, Washington, 98104 Tel: (306) (24-9537, Fax: (206) 621-9832

MEMORANDUM

DATE:

September 23, 1999

TO:

Mark Woodke, Project Manager, E & E, Seattle, WA

FROM:

Alasdair Turner, START-Chemist, E & E, Seattle, WA

SUBJ:

Inorganic Data Quality Assurance Summary Review, Wenatchee

Brownfields Site, Wenatchee, Washington.

REF:

TDD: 98-11-0007

PAN: CK0701SIDM

The data quality assurance summary review of 20 soil samples collected from the Wenatchee Brownfields Site in Wenatchee, Washington has been completed. Analysis for VOCs, SVOC, and Pest/PCBs (EPA CLP SOW for organic analysis OLM03.2) has been completed, and was performed by COMPUCHEM, of Cary, NC.

No discrepancies were noted.

Environmental Services Assistance Teams - Western Zone

LOCKHEED MARTIN
TECHNOLOGY SERVICES GROUP

ESAT Region 10 Lockheed Martin 7411 Beach Drive East Port Orchard, WA 98366 Phone (360) 871-8723

DELIVERABLE NARRATIVE

DATE:

August 25, 1999

To:

Ginna Grepo-Grove, WAM, USEPA, Region 10

THROUGH:

Dave Dobb, Team Manager, ESAT Region 10

FROM:

Chris Pace, Task Lead, ESAT Region 10

SUBJECT:

Data validation report for the volatile organic (VOA), semi-volatile organic (SVOA) and

pesticide/polychlorinated biphenyl (Pest/PCB) analysis of samples from the Wenatchee Brownfields

Site. Case: 27165 SDG: JW515

DOC:

ESW10-3-1363

PWO:

ESW72018

TDF:

3636

WA:

10-99-3-10

CC:

Gerald Dodo, RPO, USEPA, Region 10

Project File

The quality assurance (QA) review of 20 soil samples collected from the above referenced site has been completed. These samples were analyzed for VOA, SVOA and Pest/PCB in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (OLM03.2) by COMPUCHEM of Cary, NC.

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control Specifications outlined in the USEPA CLP SOW for Organic Analysis (OLM03.2), the USEPA CLP National Functional Guidelines for Organic Data Review (2/94) and the Region 10 Guidelines for CLP Data Review.

The conclusions presented herein are based on the information provided for the review.

Holding Time

All samples were preserved with ice prior to shipment. All of the samples met the method and technical (40 CFR 136) required holding times for all analyses with the following exceptions:

SVOA samples JW515, JW531, JW531DL and JW532 were extracted 17 to 21 days from the collection date and therefore, were qualified as estimated, "J/UJ".

SVOA samples JW516, JW518RE, JW525, JW525DL, JW528RE and JW529RE were extracted 23 to 27 days from the collection date thus grossly exceeding the extraction holding time criteria of 14 days. The recovery of the phenolic and more volatile compounds may have been affected. Sample data were qualified as estimated, "J/UJ".

The Holding Times Summary listing the pertinent collection, extraction, and analysis dates is attached at the end of this validation report.

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Instrument Performance - Acceptable

All of the GC and GC/MS systems met the SOW specified technical acceptance criteria prior to sample analyses, i.e., GC/MS performance checks, GC performance checks, retention times, response factors, and calibrations. The systems remained stable throughout the course of analyses. Instrument blanks were all clean and there were no indications of carry-over.

Initial Calibrations

Two VOA, nine SVOA and two Pest/PCB initial calibrations were performed. The initial calibrations met the SOW technical acceptance criteria with the following exceptions:

- VOA Initial Calibration on 6/28/99, instrument 55 the %RSD for 2-hexanone was 31.4. The lowest calibration level was non-linear. Associated samples were qualified as estimated, "J/UJ", in the non-linear portion of the calibration curve.
- SVOA Initial Calibration on 7/22/99, instrument 66 the %RSD for carbazole was 35.1. The %RSD for 3,3'-dichlorobenzidine was 34.3. The lowest calibration level was non-linear for both analytes. Associated samples were qualified as estimated, "J/UJ", in the non-linear portion of the calibration curves.
- SVOA Initial Calibration on 7/23/99, instrument 66 the %RSD for 3,3'-dichlorobenzidine was 33.6. The
 lowest calibration level was non-linear. Associated samples were qualified as estimated, "J/UJ", in the nonlinear portion of the calibration curve.

Continuing Calibration Verification (CCVs) Standards

All of the CCVs met the criteria for frequency of analysis, the minimum response factor, the retention time and the percent differences (%Ds) criteria with the following exceptions:

• The %Ds for the following VOA compounds exceeded the QC limits and the associated results were qualified accordingly:

Date /Time of Analysis	Inst. i.d.	Compound	%D	Qualifier Detect/Non-detect
7/12/99 (09:07)	51	trans-1,3-dichloropropene 2-hexanone 1,2-dichloroethane-d4 (surr.)	26.5 26.5 40.8	J/none J/none none
7/13/99 (08:31)	51	chloromethane 1,2-dichloroethane 1,2-dichloroethane-d4 (surr.)	-42.8 29.2 42.4	J/UJ J/none none
7/11/99 (12:11)	55	chloroethane carbon disulfide 1,1-dichloroethene tetrachloroethene	-25.9 -31.8 -29.4 -28.7	none J/UJ J/UJ J/UJ

Case No.: 27165 SDG: JW515 ESW10-3-1363 Page 3 of 8

The %Ds for the following SVOA compounds exceeded the QC limits and the associated results were qualified accordingly:

Date /Time of Analysis	Inst. i.d.	Compound	%D	Qualifier Detect/Non-detect
7/16/99 (21:53)	64	4-methylphenol	28.1	J/none
7/20/99 (09:30)	66	2,4-dinitrophenol	-25.2	поле
7/22/99 (14:31)	66	4-nitroaniline 3,3'-dichlorobenzidine	58.1 26.6	J/none J/none
7/30/99 (21:22)	68	3,3'-dichlorobenzidine	-26.0	none
7/14/99 (23:38)	70	pentachlorophenol 2,4,6-tribomophenol (surr.)	-27.5 -28.8	J/UJ none
7/29/99 (09:06)	70	n-nitroso-di-n-propylamine 4-chloroaniline butylbenzylphthalate 3,3'- dichlorobenzidine bis(2-ethylhexyl)phthalate di-n-octylphthalate	32.6 25.7 33.5 -37.6 28.4 66.3	J/none none J/none J/UJ J/none J/none

Compound Quantitation and Detection Limits

All of the samples were analyzed at the contract required quantitation limits (CRQLs) with the following exceptions:

SVOA sample JW544 was analyzed at a 2X dilution due to matrix interferences. Pest/PCB samples JW520, JW524, JW539, JW543 were analyzed at dilutions of 2X, 2X, 10X and 5X respectively, due to matrix interferences.

Target compounds that were detected at concentrations less than the CRQLs were qualified as estimated, "J". Detected compounds at concentrations over the calibration range were qualified as estimated, "J". Data users should consider these estimated compounds as the minimum amount present in the samples. It is also recommended that for these compounds, data users should utilize the concentrations reported from the dilution runs. All of the reported results were adjusted for sample amounts analyzed.

Blanks

Acetone was detected below the CRQL in the VOA blanks VBLKT6, VBLKT7, VBLKU4 and VHBLKU3. Acetone detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Methylene chloride was detected below the CRQL in the VOA blanks VBLKT6 and VHBLKU3. Methylene chloride detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

2-Hexanone was detected below the CRQL in the VOA blanks VBLKT6, VBLKT7 and VBLKU4. 2-Hexanone detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Case No.: 27165 SDG: JW515 ESW10-3-1363 Page 4 of 8

Bis(2-ethylhexyl)phthalate was detected below the CRQL in the SVOA blank SBLKMY. Bis(2-ethylhexyl)phthalate detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Di-n-butylphthalate was detected below the CRQL in the SVOA blank SBLKPG. Di-n-butylphthalate detected in the samples at concentrations less than ten times the value in their associated blank(s) were qualified as non-detects, "U".

Analytical Sequence - Acceptable

All of the standards, blanks, samples, and QC samples were analyzed in accordance with the SOW specified analytical sequence.

System Monitoring Compounds (SMC)/Surrogate Spikes

All of the VOA SMC recoveries met the applicable QC criteria.

All of the SVOA surrogates recoveries met the applicable QC criteria with the following exceptions:

	2-fluorobiphenyl	phenol-d5	2-fluorophenol	2,4,6-tribromophenol	2-chlorophenol
JW518		14%	2%	0%	7%
JW518RE	n to distribute	•	8%	0%	17%
JW528	28%	15%	3%	0%	6%
JW528RE	•	. :	4%	1%	12%
JW529		15%	6%	0%	12%
JW529RE			3%	0%	10%

Due to the extremely low acid fraction surrogate recoveries for the above listed samples, the detected acid fraction analytes were qualified as estimated, "J", and the non-detected acid fraction analytes were qualified "R".

All of the Pest/PCB surrogate spike recoveries met the applicable QC criteria (30-150%) with the exception of the following:

JW515 decachlorobiphenyl column 2 186% JW544 decachlorobiphenyl column 2 170%

One or more surrogates in samples JW520DL and JW525DL were reported as diluted out. None of Pest/PCB data were qualified on the basis of surrogate recovery.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

VOA sample JW523 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses.

SVOA sample JW523 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses with the following exceptions:

JW523MS 4-chloro-3-methylphenol 19%, 4-nitrophenol 0%, pentachlorophenol 16% JW523MSD 4-chloro-3-methylphenol 11%, 4-nitrophenol 0%, pentachlorophenol 9%

Data Validation Report - Wenatchee Brownfields Case No.: 27165 SDG: JW515

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The RPDs between JW523MS and JW523MSD were 53% for 4-chloro-3-methylphenol and 56% for pentachlorophenol.

Pest/PCB sample JW523 was utilized for MS/MSD analyses. The criteria for frequency of analysis, recoveries and RPDs were met for all analyses.

No data qualification was applied based on MS/MSD analysis.

Internal Standards - Acceptable

The acceptance criteria for internal standards (IS) are ± 30 seconds for retention time (RT) shifts and -50% to +100% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the GC/MS analyses met the IS area and retention time shift criteria.

Compound Identification

All of the compounds detected in the GC/MS analyses were within the retention time windows, met the USEPA spectral matching criteria and were judged to be acceptable with the following exception:

Benzo(b)fluoranthene and benzo(k)fluoranthene could not be chromatographically separated in sample JW520 and were reported together using the response factor that resulted in the highest concentration (that of benzo(k)fluoranthene).

Single component pesticides were qualified as follows: where %Ds (between two column concentrations) > 30% but \leq 60% - detected results were qualified as estimated, "J"; %Ds > 60% with concentrations > CRQL - results were qualified as tentatively identified at the estimated concentration, "JN"; %Ds > 60% with concentrations < CRQL - results were qualified as non-detects, "U"; %Ds > 400% - results were qualified as non-detects with raised quantitation limit if > CRQL. In cases where %Ds < 60% with concentrations < CRQL and chromatographic interferences, the results were qualified as non-detects, "U". In cases where %Ds < 400% with concentrations > CRQL and chromatographic interferences, the results were qualified as tentatively identified at the estimated concentration, "JN".

A correction was made by the reviewer to the result of 4,4'-DDD in Pest/PCB sample JW515. Due to similar retention time windows on column 1, an analyte peak was incorrectly identified as endosulfan II instead of 4,4'-DDD.

Tentatively Identified Compounds

Peaks that were detected in the samples at areas >10% of the internal standards and were not part of the target compound lists were identified as tentatively identified compounds (TICs). TICs that were both found in the sample and in the associated method blank(s) were qualified as unusable, "R." Peaks that were identified as common laboratory contaminants, solvent preservatives, column bleed or aldol condensation products were qualified as unusable, "R". The rest of the peaks identified as TICs were qualified "NJ", tentatively identified at an estimated concentration.

Laboratory Contact

The laboratory was contacted by Region 10 concerning the following items:

VOA sample JW517 - Check the integrated area for acetone. When the sample and standards chromatograms are compared, the area listed on page 101 seems high. The mass spectra for acetone on page 103 does not meet the spectral matching criteria. The molecular ion for acetone, m/z 58, is absent. There is, however, an m/z 56. Resolution: Acetone should not have been reported. Acetone was qualified as non-detected, "U", at the reported

concentration.

VOA sample JW517 - The large peak on the sample chromatogram at about 21 minutes was not reported as a TIC. Are the two TICs that were reported as artifacts in this sample common in your laboratory. Resolution: The two TICs reported as artifacts were errors. Corrected FORM I VOA-TIC and supporting raw data have been submitted.

All raw data for the SVOA instrument performance check on 7/8/99 at 20:41 (instrument HP70) is missing. Raw data for the instrument performance check on 7/9/99 at 08:46 was included and is not needed (pages 2426-2429).

The SVOA analysis of sample JW518RE reports benzene as a TIC. Benzene was not reported in the analysis of SVOA of JW518 or the VOA analysis of JW518. Resolution: The benzene TIC in SVOA sample JW518RE was qualified as unusable, "R".

The SVOA analysis of sample JW525 reports benzo(a)anthracene and chrysene at the same retention time. Resolution: Corrected FORM I SV-1 and supporting raw data have been submitted.

FORM VII PEST-1 are missing for PEM28 (8/2 at 2024) and PEM34 (8/4 at 2025).

All issues have been resolved. Hard copies of all resubmissions will be sent to Region 10.

Overall Assessment

All of the samples were analyzed in accordance with the SOW specifications. The data, as qualified, are acceptable and can be used for all purposes.

Data Qualifiers

U		The analyte was not detected at or above the reported result.
J	•	The analyte was positively identified. The associated numerical result is an estimate.
R		The data are unusable for all purposes.
N		There is evidence the analyte is present in this sample.
JN .	-	There is evidence that the analyte is present. The associated numerical result is an estimate.
UJ	-	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.

Page 7 of 8.

Holding Time Summary - Case 27165

SDG: JW515

Sample Number	Collection Date	VTSR	VOA Analysis	SVOA Extraction	SVOA Analysis	Pest/PCB Extraction	Pest/PCB Analysis
JW515	6/29/99	7/2/99	7/11/99	7/16/99*	7/18/99	7/8/99	8/6/99
JW516	6/29/99	7/2/99	7 /11/99	7/22/99*	7/25/99	7/8/99	8/3/99
JW517	6/29/99	7/2/99	7/11/99	7/8/99	7/20/99	7/8/99	8/3/99
JW518	6/29/99	7/2/99	7/11/99	7/8/99	7/20/99	7/8/99	8/3/99
JW519	6/29/99	7/2/99	7/12/99	7/8/99	7/24/99	7/8/99	8/3/99
JW520	6/29/99	7/2/99	7/12/99	7/12/99	7/15/99	7/8/99	8/5/99
JW521	6/29/99	7/2/99	7/11/99	7/8/99	7/20/99	7/8/99	8/5/99
JW523	6/30/99	7/2/99	7/11/99	7/8/99	7/24/99	7/8/99	8/6/99
JW524	6/30/99	7/2/99	.7/11/99	7/8/99	7/20/99:	7/8/99	8/5/99
JW525	6/30/99	7/3/99	7/13/99	7/26/99*	7/30/99	7/8/99	8/5/99
JW526	6/30/99	7/3/99	7/11/99	7/12/99	7/15/99	7/8/99	8/5/99
JW528	6/30/99	7/2/99	7/12/99	7/8/99	7/20/99	7/8/99	8/4/99
JW529	6/30/99	7/2/99	7/11/99	7/8/99	7/20/99	7/8/99	8/4/99
JW531	7/1/99	7 /3/99	7/11/99	7/22/99*	7/25/99	7/8/99	8/6/99
JW532	7/1/99	7/3/99	7/11/99	7/22/99*	7/28/99	7/8/99	8/6/99
JW538	6/30/99	7/2/99	7/11/99	7/8/99	7/20/99	7/8/99	8/4/99
JW539	6/30/99	7/2/99	7/11/99	7/12/99	7/15/99	7/8/99	8/5/99
JW540	6/30/99	7/2/99	7/12/99	7/8/99	7/20/99	7/8/99	8/6/99
JW543	7/1/99	7/3/99	7/13/99	7/8/99	7/23/99	7/8/99	8/5/99
JW544	7/1/99	7/3/99	7/13/99	7/8/99	7/23/99	7/8/99	8/6/99
JW518RE	6/29/99	7/2/99	NA	7/26/99*	7/30/99	NA	NA
JW528RE	6/30/99	. 7/2/99	NA ·	7/23/99*	7/29/99	ŅA	NA
JW529RE	6/30/99	7/2/99	NA .	7/26/99*	7/30/99	NA	NA
JW516DL	6/29/99	7/2/99	NA	NA	NA	7/8/99	8/6/99
JW520DL	6/29/99	7/2/99	NA	NA	ΝA	7/8/99	8/6/99
JW523DL	6/30/99	7/2/99	NA	NA	NA	7/8/99	8/6/99
JW524DL	6/30/99	7/2/99	NA	NA	N _A	7/8/99	8/6/99
JW525DL	6/30/99	7/3/99	NA	7/26/99*	7 /31/99	7/8/99	8/6/99

Sample Number	Collection Date	VTSR	VOA Analysis	SVOA Extraction	SVOA Analysis	Pest/PCB Extraction	Pest/PCB Analysis
JW528DL	6/30/99	7/2/99	NA	NA	NA	7/8/99	8/6/99
JW531DL	7/1/99	7/3/99	NA	7/26/99*	7/29/99	NA	NA
JW538DL	6/30/99	7/2/99	NA	NA	NA	7/8/99	8/6/99
JW539DL	6/30/99	7/2/99	NA	NA	NA	7/8/99	8/6/99
JW540DL	6/30/99	7/2/99	NA	NA	NA	7/8/99	8/5/99
JW544DL	7/1/99	7/3/99	NA	NA	NA	7/8/99	8/6/99

VTSR - Verified time of sample receipt in the laboratory NA - Not available

^{* -} Outside of holding time

Lab Name: COMPUCHEM Contract: 68D50004 JW515

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW515

Matrix: (soil/water) SOIL Lab Sample ID: 949440

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH049440A55

Level: (low/med) LOW Date Received: 07/02/99

% Moisture: not dec. 7 Date Analyzed: 07/11/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

74-87-3-----Chloromethane 11 U 11 U 74-83-9-----Bromomethane 75-01-4-----Vinyl Chloride 75-00-3-----Chloroethane וַבן ע 75-09-2----Methylene Chloride 11 A JBU 67-64-1-----Acetone 32 BU 75-15-0-----Carbon Disulfide 11 05 75-35-4-----1,1-Dichloroethene 11 07 75-34-3-----1,1-Dichloroethane 11 U 540-59-0----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane 11 U 78-93-3----2-Butanone 71-55-6-----1,1,1-Trichloroethane 11 U 56-23-5-----Carbon Tetrachloride 11 U 75-27-4-----Bromodichloromethane 11 U 78-87-5----1,2-Dichloropropane 11 U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 U 79-00-5----1,1,2-Trichloroethane 11 U 71-43-2----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene 11 U 75-25-2-----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone 11 U 591-78-6----2-Hexanone 11 U 127-18-4----Tetrachloroethene 11 07 79-34-5----1,1,2,2-Tetrachloroethane 11 U 108-88-3-----Toluene 11 | U 108-90-7-----Chlorobenzene 11 | U 100-41-4-----Ethylbenzene 11 U 100-42-5-----Styrene 1330-20-7------Xylene (Total)__ 11 U 3 1

CP8-18-99

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Soil Aliquot Volume:

	•	*			JW515
Lab	Name: COMPUCHEM		Contract:	68D50004	5,1313
	•				

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW515

Matrix: (soil/water) SOIL Lab Sample ID: 949440

Sample wt/vol: 5.0 (g/mL) gLab File ID: qh049440a55

Level: (low/med) LOW Date Received: 07/02/99

% Moisture: not dec. 7 Date Analyzed: 07/11/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: Number TICs found: 8 (ug/L or ug/Kg) ug/Kg

				I
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SUBSTITUTED CYCLOHEXANE	19.80	6	J <i>N</i>
2.	SUBSTITUTED ALKANE	20.37	6	J.
3.	SUBSTITUTED CYCLOHEXANE	20.49	11	j₩
4.	LABORATORY ARTITACT Contents	21.00	25	ਰ ₹
5.	UNKNOWN HYDROCARBON SUBSTITUTED BENZENE	21.13	6	J/V
7	UNKNOWN HYDROCARBON	21.22 21.34	11	J
8.	SUBSTITUTED BENZENE	21.95	9	J J↓
9		22.33		0 •
10				***************************************
11. 12.		•		
13.				
14.				
15.				
16				
17				
18 19.				
20.				
21.				
22.				
23				
24.				
25.				
26. 27.				
28.		l ————		
29.				l
30.				

JW516 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW515 Matrix: (soil/water) SOIL Lab Sample ID: 949449 Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH049449A55 Level: Date Received: 07/02/99 (low/med) LOW % Moisture: not dec. 17 Date Analyzed: 07/11/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume:____(uL) Soil Aliquot Volume: (uI CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) ug/Kg CAS NO. 0 74-87-3-----Chloromethane 12 U 74-83-9-----Bromomethane 12 U 75-01-4-----Vinyl Chloride 12 U 75-00-3-----Chloroethane 12 U 75-09-2----Methylene Chloride 12 7 BU 67-64-1-----Acetone 14 BU 75-15-0-----Carbon Disulfide 12 UJ 75-35-4----1,1-Dichloroethene 12 UJ 75-34-3----1,1-Dichloroethane 12 | U 540-59-0----1,2-Dichloroethene (total) 12 U 67-66-3-----Chloroform 12 U 107-06-2----1,2-Dichloroethane 12 U 78-93-3----2-Butanone 3 J 71-55-6----1,1,1-Trichloroethane_ 12 U 56-23-5-----Carbon Tetrachloride 12 U 75-27-4-----Bromodichloromethane 12 U 78-87-5----1,2-Dichloropropane_ 12 U 10061-01-5----cis-1,3-Dichloropropene 12 U 79-01-6-----Trichloroethene 12 U 124-48-1-----Dibromochloromethane 12 U 79-00-5----1,1,2-Trichloroethane 12 71-43-2----Benzene 10061-02-6----trans-1,3-Dichloropropene_ 12 U 12 U 75-25-2-----Bromoform 12 U 108-10-1----4-Methyl-2-Pentanone 12 U 591-78-6----2-Hexanone 12 U 127-18-4----Tetrachloroethene 12 07 79-34-5----1,1,2,2-Tetrachloroethane 12 U 108-88-3-----Toluene 12 U 108-90-7-----Chlorobenzene 12 U 100-41-4-----Ethylbenzene 2 | J 100-42-5----Styrene 12 U 1330-20-7-----Xylene (Total)_

FORM I VOA

OLMO3.0

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JW516

Lab Name: COMPUCHEM

Contract: 68D50004

SAS No.: SDG No.: JW515

Matrix: (soil/water) SOIL

Lab Sample ID: 949449

Sample wt/vol: 5.0 (g/mL) g

Lab Code: COMPU

Case No.: 27165

Lab File ID: gh049449a55

Level: (low/med)

LOW

Date Received: 07/02/99

% Moisture: not dec. 17

Date Analyzed: 07/11/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

Number TICs found: 9

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT .	EST. CONC.	Q
1. 2. 3. 79-92-5	SUBSTITUTED CYCLOHEXANE UNKNOWN CYCLIC HYDROCARBON CAMPHENE LABORATORY ARTIFACT Lab Conf.	19.78 20.47 20.89	6 9 8	JV JV NJ NJ
5. 6. 7. 8. 9.	SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE	21.11 21.21 21.43 21.63 21.94	7 17 7 16 10	JV JJJJJ
11. 12. 13. 14. 15.				
17. 18. 19. 20. 21.				
22. 23. 24. 25. 26.				
28. 29. 30.				

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

JW517

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW515

Matrix: (soil/water) SOIL

Lab Sample ID: 949450

Sample wt/vol:

5.0 (g/mL) g

Lab File ID: GH049450A55

Level: (low/med) LOW Date Received: 07/02/99

% Moisture: not dec. 29

Date Analyzed: 07/11/99

GC Column: EQUITY624 ID: 0.53 (mm)

CAS NO.

COMPOUND

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

74-87-3	Chloromethane	£	14	บ .
	Bromomethane		$\overline{14}$	1 - 1
	Vinyl Chloride		14	
75-00-3	Chloroethane		14	υ
	Methylene Chloride		14 4	76 U
67-64-1			150	RKU
	Carbon Disulfide	1.	14	TI
	1,1-Dichloroethene		14	11
75-34-3	1,1-Dichloroethane		14	Ü
	1,2-Dichloroethene (total)		14	1 - 1
	Chloroform		14	1 - 1
	1,2-Dichloroethane			-
70 03 3	·2-Butanone		14	
			13	(–
/1-55-6	1,1,1-Trichloroethane		14	1 - 1
	Carbon Tetrachloride		14	
	Bromodichloromethane	. 🖡	14	1. 1
78-87-5	1,2-Dichloropropane		14	1 -
10061-01-5	cis-1,3-Dichloropropene		14	_
	Trichloroethene	.]	14	
	Dibromochloromethane		14	
	1,1,2-Trichloroethane	.	14	1 -
71-43-2		.1	14	
10061-02-6	trans-1,3-Dichloropropene	.	14	
	Bromoform		14	
	4-Methyl-2-Pentanone		14	U
	2-Hexanone].	14	שׁן
127-18-4	Tetrachloroethene		14	U
79-34-5	1,1,2,2-Tetrachloroethane		14	lυ
108-88-3	Toluene		14	Ū
	Chlorobenzene	•	14	Ū
100-41-4	Ethylbenzene	-	14	U
100-42-5	Styrene	-	14	-
	Xylene (Total)	-	14	1 -
	11 - 312 / 1 - 3 - 1	-		
·		- 1		· 1

CP8-28 OLMO3.0

FORM I VOA

Case No.: 27165 SAS No.: SDG No.: JW515

EPA	SAMPLE	NO.
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JW517

Y				•
VOLATILE `	ORGANIC	S ANALYSIS	DATA	SHEET
TENTA	TIVELY	IDENTIFIED	COMPO	SOMUC

Name: COMPUCHEM Contract: 68D50004

wix: (soil/water) SOIL

Lab Sample ID: 949450

Toda: COMPU

Lab File ID: gh049450a55

(low/med) LOW

Date Received: 07/02/99

misture: not dec. 29

Date Analyzed: 07/11/99

Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Extract Volume: (uL)

Soil Aliquot Volume:

Cumber TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

las number	COMPOUND NAME SEMT TOT SUCH farget analyte	RT ====================================	EST. CONC.	Q T R
	SEMI TOL SUON farget analyte DIHYDRODIMETHYLINDENE	20 08	8	שׁלַע מ
	LABORATORY ARTIFACT Contamination	21.02		- K
			4	
•				
		ATA II.		
•				
•				
		•		
•				
•				
•	1. 1000			
•				-
				

OLMO3.0

FORM I VOA-TIC

JW518 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW515 Matrix: (soil/water) SOIL Lab Sample ID: 949451 Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH049451A55 Level: (low/med) LOW Date Received: 07/02/99 % Moisture: not dec. 7 Date Analyzed: 07/11/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume:____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

	<u> </u>
74-87-3Chloromethane	11 U 11 U
75-01-4Vinyl Chloride	
75-00-3Chloroethane	
75-09-2- Mothylone Chloride	1 1
75-09-2Methylene Chloride 67-64-1Acetone	1/ 8 JB U
75-15-0Carbon Disulfide	12 84
75-35-41,1-Dichloroethene	11 [민주]
75 34 3	11 0 2
75-34-31,1-Dichloroethane	11 0
540-59-01,2-Dichloroethene (total)	11 0
67-66-3Chloroform	11 0
107-06-21,2-Dichloroethane	11 U
78-93-32-Butanone	2 J
71-55-61,1,1-Trichloroethane	11 U
56-23-5Carbon Tetrachloride	11 U
75-27-4Bromodichloromethane	11 U
*78-87-51,2-Dichloropropane	11 0
10061-01-5cis-1,3-Dichloropropene	11 U
79-01-6Trichloroethene	11 0
124-48-1Dibromochloromethane	ן זון ו
79-00-51,1,2-Trichloroethane	ן דו דו
71-43-2Benzene	11 0
10061-02-6trans-1,3-Dichloropropene	11 0
75-25-2Bromoform	11 0
108-10-14-Methyl-2-Pentanone	
591-78-62-Hexanone	
127-18-4Tetrachloroethene	11 05
79-34-51,1,2,2-Tetrachloroethane	
108-88-3Toluene	ו יי ווֹן
108-90-7Chlorobenzene	
100-41-4Ethylbenzene	
100-42-5Styrene	11 0
1330-20-7Xylene (Total)	2 J
Tobo 20 / The Nyterie (10car)	4 0
	l

FORM I VOA

OLM03.0.

EPA SAMPLE NO.

JW518

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU

Case No.: 27165 SAS No.:

SDG No.: JW515

Matrix: (soil/water) SOIL

Lab Sample ID: 949451

Sample wt/vol: 5.0 (g/mL) g

Lab File ID: gh049451a55

Level: (low/med) LOW

Date Received: 07/02/99

% Moisture: not dec. 7

Date Analyzed: 07/11/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume:

Number TICs found: 8

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT ======	EST. CONC.	Q ======
2. 3. 4. 5. 6. 7. 8.	LABORATORY ARTIFACT Lab Co. C., SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE UNKNOWN HYDROCARBON UNKNOWN HYDROCARBON	21.00 21.44 21.84 21.94 22.12 23.12 23.29 23.72	16 6 5 10 6 10 8	7 N J J J J J J J J J J J J J J J J J J
10. 11. 12. 13. 14. 15. 16. 17. 18. 19.				
20. 21. 22. 23. 24. 25. 26. 27. 28. 29.				

OP 8-18-99

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

JW519 Contract: 68D50004

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW515

Matrix: (soil/water) SOIL Lab Sample ID: 949452

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GR049452A51

Level: (low/med) LOW Date Received: 07/02/99

% Moisture: not dec. 6 Date Analyzed: 07/12/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

74-87-3	CAD NO.	· · · · · · · · · · · · · · · · · · ·	757 -575		
74-83-9	74-87-3	Chloromethane	1	1 U	•
11					
75-00-3					
75-09-2	75-00-3	Chloroethane			
1	75-09-2	Methylene Chloride			
75-15-0	67-64-1	Acetone	· '' j	1 8 4	
11 U			·\	วไซ	
75-34-3	75-35-4	1 1-Dichloroethene			'
540-59-01, 2-Dichloroethene (total) 11 U 67-66-3Chloroform 11 U 107-06-21, 2-Dichloroethane 11 U 78-93-32-Butanone 11 U 71-55-61, 1, 1-Trichloroethane 11 U 56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51, 2-Dichloropropane 11 U 10061-01-5cis-1, 3-Dichloropropene 11 U 79-01-6Trichloroethane 11 U 12-48-1Dibromochloromethane 11 U 17-43-2Benzene 11 U 10061-02-6	75-34-3	1 1-Dichloroethane			
67-66-3	540-59-0	1 2-Dichloroethene (total)			
107-06-21,2-Dichloroethane 11 U 78-93-32-Butanone 11 U 71-55-61,1,1-Trichloroethane 11 U 56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethane 11 U 79-01-6Trichloroethane 11 U 79-01-6	67-66-3	Chloroform			ļ.
78-93-32-Butanone 11 U 71-55-61,1,1-Trichloroethane 11 U 56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethene 11 U 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 1061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 11 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 11 U 100-41-4Ethylbenzene 11 U 100-42-5Styrene 11 U 1330-20-7Xylene (Total) 2 J					
71-55-61,1,1-Trichloroethane 11 U 56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethane 11 U 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 1061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 11 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 11 U 108-90-7Chlorobenzene 11 U 100-41-4Ethylbenzene 11 U 100-42-5Xylene (Total) 2 J	78-93-3	2-Butanone			
56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethene 11 U 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 1061-02-6trans-1,3-Dichloropropene 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 11 U 108-88-3Toluene 11 U 108-90-7Chlorobenzene 11 U 100-41-4Ethylbenzene 11 U 100-42-5			_ •		
75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethene 11 U 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 11 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 11 U 108-90-7Chlorobenzene 11 U 100-41-4Ethylbenzene 11 U 100-42-5	56-23-5	Carbon Tetrachloride			1 .
78-87-51, 2-Dichloropropane 11 U 10061-01-5cis-1, 3-Dichloropropene 11 U 79-01-6Trichloroethene 11 U 124-48-1Dibromochloromethane 11 U 79-00-51, 1, 2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1, 3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 11 U 79-34-51, 1, 2, 2-Tetrachloroethane 11 U 108-88-3Toluene 11 U 108-90-7Chlorobenzene 11 U 100-41-4Ethylbenzene 11 U 100-42-5Styrene 11 U 1330-20-7Xylene (Total) 2 J					
10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethene 11 U 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 11 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 11 U 108-90-7Chlorobenzene 11 U 100-41-4Ethylbenzene 11 U 100-42-5					
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EPA SAMPLE NO.

Lab Name: COMPUCHEM Contract: 68D50004 JW519

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW515

Matrix: (soil/water) SOIL

Lab Sample ID: 949452

Sample wt/vol: 5.0 (g/mL) g

Lab File ID: gr049452a51

Level: (low/med) LOW

Date Received: 07/02/99

% Moisture: not dec. 6

Date Analyzed: 07/12/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Number TICs found: 9

Soil Aliquot Volume:

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT ,	EST. CONC.	,Q
1. 71-23-8 -2 3. 4. 5.	1-PROPANOL LABORATORY ARTIFACT Lab Cont. SUBSTITUTED ALKANE SUBSTITUTED ALKANE SUBSTITUTED ALKANE	11.52 20.59 21.48 21.74 21.97	33 9 8 7	J J J J J
7. 8. 9.	LABORATORY ARTIFACT Lab Cont. UNKNOWN CYCLIC HYDROCARBON UNKNOWN HYDROCARBON SUBSTITUTED ALKANE	22.55 22.80 23.09 23.37	19 10 14 7	7 \ 7 \ 7 \ 7 \ 7 \ 7 \ 7 \ 7 \ 7 \ 7 \
11. 12. 13. 14.				
16. 17. 18. 19.				
21				
26				
30				

JW520

Lab Name: COMPUCHEM

Contract: 68D50004

Lab Code: COMPU Case No.: 27165

SAS No.:

SDG No.: JW515

Matrix: (soil/water) SOIL

Lab Sample ID: 949453

Sample wt/vol: 5.0 (g/mL) g

Lab File ID:

GR049453A51

LOW

Level: (low/med)

Date Received: 07/02/99

% Moisture: not dec. 22

CAS NO.

COMPOUND

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Date Analyzed: 07/12/99

Soil Aliquot Volume: _____

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

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74-87-3Chloromethane	3	13	ս
74-83-9Bromomethane		13	ττ Ι
75-01-4Vinyl Chloride		13	٠ ,
75-00-3Chloroethane			ŭ
75-09-2Methylene Chloride		13 2	
67-64-1Acetone		110	
75-15-0Carbon Disulfide		1*	์ บี ไ
75-35-41,1-Dichloroethene	1	13	- 1
75-34-31,1-Dichloroethane		13	
540-59-01,2-Dichloroethene (total)			ן ע
67-66-3Chloroform			U U
107-06-21,2-Dichloroethane	1	,	บ
78-93-32-Butanone			Ų
		31	
71-55-61,1,1-Trichloroethane			U
56-23-5Carbon Tetrachloride			ַ ט
75-27-4Bromodichloromethane	1		ַ
78-87-51,2-Dichloropropane		1	U
10061-01-5cis-1,3-Dichloropropene	· .		U
79-01-6Trichloroethene		13	
124-48-1Dibromochloromethane			U .
79-00-51,1,2-Trichloroethane		1	U
71-43-2Benzene		13	U
10061-02-6trans-1,3-Dichloropropene			U
75-25-2Bromoform_		13	U
108-10-14-Methyl-2-Pentanone		13	U ·
591-78-62-Hexanone		13	U
127-18-4Tetrachloroethene		13	U
79-34-51,1,2,2-Tetrachloroethane		13	U
108-88-3Toluene		13	Ū
108-90-7Chlorobenzene		4	J
100-41-4Ethylbenzene		. 8	J
100-42-5Styrene		13	ŢŢ
1330-20-7Xylene (Total)	•	43	
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FORM I VOA

EPA SAMPLE NO.

JW520 Contract: 68D50004

Lab Sample ID: 949453

Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 27165 SAS No.:

SDG No.: JW515

Matrix: (soil/water) SOIL

5.0 (g/mL) g

Lab File ID: qr049453a51

Sample wt/vol:

Level: (low/med) LOW

Date Received: 07/02/99

% Moisture: not dec. 22

Date Analyzed: 07/12/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume:

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 21

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q.
	LABORATORY ARTTRACT Lab Cont.	17.84	8	JR
1. 2. 3. 4. 5. 6. 79-92-5 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 1195-79-5 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	LABORATORY ARTIFACT Lab Cond. UNKNOWN HYDROCARBON SUBSTITUTED CYCLOHEXANE TRIMETHYLDODECANE ISOMER SUBSTITUTED CYCLOHEXANE CAMPHENE LABORATORY ARTIFACT UNKNOWN ALKANE UNKNOWN HYDROCARBON SUBSTITUTED BENZENE SUBSTITUTED BENZENE UNKNOWN HYDROCARBON SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE SUBSTITUTED BENZENE UNKNOWN HYDROCARBON BICYCLO[2.2.1]HEPTAN-2-ONE, SUBSTITUTED BENZENE UNKNOWN HYDROCARBON	17.84 18.64 19.70 20.17 20.32 20.52 20.59 20.85 20.94 21.07 21.17 21.23 21.42 21.51 21.69 21.92 22.33 22.69 22.90 22.99 23.38	20 19 165 15 17 12 13 12 9 18 48 12 27 26 9 9 17 21 41 21	ממממממממ 🗸

UF 8-18-9°

JW521 Lab Name: COMPUCHEM Contract: 68D50004 Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW515 Matrix: (soil/water) SOIL Lab Sample ID: 949454 Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH049454A55 Level: (low/med) LOW Date Received: 07/02/99 % Moisture: not dec. 12 Date Analyzed: 07/11/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uI

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg 74-87-3-----Chloromethane 11 U 74-83-9-----Bromomethane 11 U 75-01-4-----Vinyl Chloride_ 11 U 75-00-3-----Chloroethane 11 U // 2 JB U // 20 JB U 75-09-2-----Methylene Chloride 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 11 U T 75-35-4----1,1-Dichloroethene 11 07 75-34-3----1,1-Dichloroethane_ 11 U 540-59-0-----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane_ 11 U 78-93-3----2-Butanone 71-55-6-----1,1,1-Trichloroethane_ 11 U 56-23-5-----Carbon Tetrachloride 11 U 75-27-4-----Bromodichloromethane U 11 78-87-5----1,2-Dichloropropane 11 U 10061-01-5----cis-1,3-Dichloropropene_ 11 U 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 U 79-00-5----1,1,2-Trichloroethane 11 U 71-43-2-----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene 11 U 75-25-2-----Bromoform

OLM03.0

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FORM I VOA

108-10-1----4-Methyl-2-Pentanone

79-34-5----1,1,2,2-Tetrachloroethane

127-18-4-----Tetrachloroethene

591-78-6----2-Hexanone_

108-90-7-----Chlorobenzene

100-41-4-----Ethylbenzene

1330-20-7-----Xylene (Total)

108-88-3-----Toluene

100-42-5-----Styrene_

EPA SAMPLE NO.

Contract: 68D50004

JW521

Lab Code: COMPU Case No.: 27165 SAS No.:

Lab Name: COMPUCHEM

SDG No.: JW515

Matrix: (soil/water) SOIL

Lab Sample ID: 949454

Sample wt/vol: 5.0 (g/mL) g

Lab File ID: gh049454a55

Level: (low/med) LOW

Date Received: 07/02/99

% Moisture: not dec. 12

Date Analyzed: 07/11/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

Soil Aliquot Volume:

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT ,	EST. CONC.	Q
1.	UNKNOWN CYCLIC HYDROCARBON	23.46	6	JN
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FORM I VOA-TIC

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JW523

Lab Name: COMPUCHEM Contract: 68D50004

Lab Code: COMPU Case No.: 27165 SAS No.: SDG No.: JW515

Matrix: (soil/water) SOIL Lab Sample ID: 949455

Sample wt/vol: 5.0 (g/mL) g Lab File ID: GH049455A55

Level: (low/med) LOW Date Received: 07/02/99

% Moisture: not dec. 8 Date Analyzed: 07/11/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) ug/Kg Q 11 | U 74-87-3-----Chloromethane 11 U 74-83-9-----Bromomethane 75-01-4-----Vinyl Chloride 11 U 75-00-3-----Chloroethane 11 U JBU 75-09-2----Methylene Chloride 67-64-1-----Acetone 120 8 75-15-0-----Carbon Disulfide 11 UJ 75-35-4----1,1-Dichloroethene 11 05 75-34-3----1,1-Dichloroethane 11 U 540-59-0----1,2-Dichloroethene (total) 11 U 11 U 67-66-3-----Chloroform 11 U 107-06-2----1,2-Dichloroethane 78-93-3-----2-Butanone 28 11 0 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride_ 11 U 75-27-4-----Bromodichloromethane 11 U 11 U 78-87-5----1,2-Dichloropropane 10061-01-5----cis-1,3-Dichloropropene 11 U 11 U -79-01-6-----Trichloroethene 124-48-1----Dibromochloromethane 11 | U 79-00-5----1,1,2-Trichloroethane 11 U 71-43-2-----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene 11 U 75-25-2-----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone 11 U 11 U 591-78-6----2-Hexanone 127-18-4-----Tetrachloroethene 11 U J 79-34-5----1,1,2,2-Tetrachloroethane 11 U 108-88-3-----Toluene 11 U

FORM I VOA

108-90-7-----Chlorobenzene

1330-20-7-----Xylene (Total)

100-41-4-----Ethylbenzene

100-42-5-----Styrene

203

OLM03.0

11 U

11 U

11 U

TENTATIVELY IDENTIFIED COMPOUNDS

SAS No.:

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EPA SAMPLE NO.

lab Na	ame:	COMPUCHEM	Contract:	68D50004
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Matrix: (soil/water) SOIL

Lab Sample ID: 949455

Sample wt/vol:

5.0 (g/mL) g

Lab File ID: gh049455a55

Level: (low/med)

Date Received: 07/02/99

% Moisture: not dec. 8

Date Analyzed: 07/11/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Lab Code: COMPU Case No.: 27165

LOW

Soil Aliquot Volume:

SDG No.: JW515

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) ug/Kg

AS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q.
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CP8-18-99

WENATCHEE LANDFILL BROWNFIELD SITE CLEANUP COST ESTIMATE SUMMARY EXCAVATION AND FILL ALTERNATIVE

	Item		Estimated		Estimated	
Reference	Number	Item Description	Quantity	Unit	Cost/Unit	Total Cost
		Excavation to 30 feet and loading				,
Means 2000b	1	(1.5 acres; backhoe or other)	72,600	cu. yd.	\$2.35	\$170,610
		Transportation of excavated materials to				
Means 2000b	. 2	Subtitle D landfill (assume 5 miles)	72,600	cu. yd.	\$6.30	\$457,380
	***************************************	Disposal of excavated materials at				
Means 2000b	3	Subtitle D landfill	100,000	tons	\$50.00	\$5,000,000
Means 2000a	4	Backfill and Compaction	72,600	cu. yd.	\$4.28	\$310,728
Vendor	5	Structural Fill Material - crushed rock	56,000	tons	\$11.35	\$635,600
		Transportation of fill material				
Means 2000b	6	(assume 20 mile round trip)	72,600	cu. yd.	\$11.55	\$838,530
Total	1					\$7,412,848

Means, R. S. and Company and Talisman Partners, Ltd., 2000a, Environmental Remediation Cost Data - Unit Price, 6th Annual Edition, Englewood, Colorado.

Means, R. S. and Company, 2000b, Site Work and Landscape Cost Data, 19th Annual Edition, Englewood, Colorado.

APPENDIX K

SITE PHOTOGRAPHS





Photograph 1: View of the Property from the south on Worthen Street. The former heavy equipment repair facility is the only remaining structure at the Property. The southern half of the interior of this structure was not accessible during site reconnaissance.



Photograph 2: View of the west side of the vacant building at the Property at the location of the pad-mounted transformer. No visible labels with PCB information were present on the transformer.



Photograph 3: View of the parking area for the boat launch and public park area located adjacent to the south boundary of the Property.



Photograph 4: View of the pedestrian bridge adjacent to the north boundary of the Property.



Photograph 5: View of the Property facing north from the intersection of Worthen Street and the entrance to the public boat launch.



Photograph 6: View of the public park space in the eastern portion of the Property. Four unmarked drums were also located at the Property at the southeast corner of the former heavy equipment repair facility.



Photograph 7: View of the river trail in the public park along the eastern boundary of the Property.



Photograph 8: View of the bank of the Columbia River on the eastern portion of the Property. This view is in the approximate location of the historical landfill at the Property.



Photograph 9: View of the advancement of piezometer PZ1 in the west central portion of the Property. Photograph taken facing west.



Photograph 10: View of the location of piezometer PZ2 in the southeastern corner of the Property. Photograph taken facing north.



Photograph 11: View of the location of piezometer PZ3 in the northeast portion of the Property adjacent to the vacant heavy equipment repair facility. Photograph taken facing northeast.



Photograph 12: View of combustible soil gas monitoring point SG4. Direct-push probe rods with a bentonite clay seal were used.



Photograph 13: View of the oil/water separator located in the east central portion of the Property.



Photograph 14: View of the interior of the oil/water separator located in the east central portion of the Property.



Photograph 15: View of a second oil/water separator (background) located in the central portion of the Property and a cleanout associated with the separators (foreground).



Photograph 16: View of the interior of a cleanout associated with the building on the Property. MFA was not able to assess the interior of the structure during site reconnaissance.



Photograph 17: Closer view of the oil/water separator located in the central portion of the Property.



Photograph 18: View of the interior of the central oil/water separator at the Property.



Photograph 19: View of the typical subsurface soil conditions at the Property in the vicinity of boring PZ3, located in the northwestern portion of the Property within the inferred footprint of the historical landfill.