

FINAL REPORT

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Lakeview Auto Wrecking Property
11528 Pacific Highway SW
Lakewood, Washington

Prepared for
Central Puget Sound Regional Transit Authority
401 South Jackson Street
Seattle, Washington 98104-2826

May 19, 2003

URS

1501 4th Avenue, Suite 1400
Seattle, Washington 98101-1616
(206) 438-2700

33755401



May 19, 2003

Mr. John McLean
Central Puget Sound Regional Transit Authority
Union Station
401 South Jackson Street
Seattle, Washington 98104

Subject: Final Phase I Environmental Site Assessment Report
Lakeview Auto Wrecking Property
11528 Pacific Highway SW, Lakewood, Washington
URS Project No. 33755401

Dear Mr. McLean:

URS is pleased to present two copies of the Final Phase I Environmental Site Assessment Report of the above-referenced property located in Lakewood, Washington. This report contains pertinent information obtained by a review of records and a site reconnaissance, as well as our findings and conclusions regarding environmental conditions of the subject property. This report was prepared in accordance with our Master Services Agreement (contract number RTA-AS-106-02) with Sound Transit (under Purchase Order No. 96541-000-OB) and in accordance with our Scope of Work dated January 13, 2003 and authorized on January 14, 2003.

Our Phase I ESA identified potential environmental concerns related to the historic storage and use of oil and/or hazardous materials at the site as well as debris and a soil stockpile that have been discarded on the subject property. Consequently, URS conducted a limited Phase II investigation and findings from our investigation will be provided to Sound Transit under separate cover.

We trust this report meets your current requirements. URS appreciates the opportunity to assist you on this project. Please do not hesitate to contact us at (206) 438-2700 if you have any questions or require additional assistance.

Very truly yours,
URS CORPORATION

Thomas Kim
Environmental Scientist

L.G. Griffith, L.G., L.H.G.
Project Hydrogeologist

cc: Jay Larson, PHAROS Corporation

URS Corporation
Century Square
1501 4th Avenue, Suite 1400
Seattle, WA 98101-1616
Tel: 206.438.2700
Fax: 206.438.2699

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EXECUTIVE SUMMARY

The Central Puget Sound Regional Transit Authority (Sound Transit) is considering acquiring the Lakeview Auto Wrecking property (subject property), located at 11528 Pacific Highway Southwest in Lakewood, Pierce County, Washington for future use as a Sounder Commuter Rail station. Because of the potential acquisition, Sound Transit retained URS to conduct a Phase I ESA to document the recognized environmental conditions on the subject property with respect to hazardous materials and wastes and petroleum products.

URS identified "recognized environmental conditions" on the subject property, as defined by ASTM Practice E 1527-00. The findings of the Phase I ESA are presented below.

Subject Property

- The subject property includes an approximately 0.5-acre parcel owned by Edwin and Roland Levesque and a narrow strip of land leased by the Levesques from BNSF.
- Auto dismantling is conducted in a three-sided, auto disassembly shed in the approximate center of the site; small engine parts are stored and sold in a parts storage building in the southwest quarter of the property; and the remainder of the site, a fenced and unpaved lot, is used for display and sales of auto body parts. Similar activities have been conducted on the subject property for at least 30 years.
- Automobile fluids such as motor oil, gasoline, and antifreeze are drained at a work station inside of the auto disassembly shed over a concrete-paved surface. The fluids are stored indoors in variously sized containers and are then transported and disposed offsite by Safety Kleen, a licensed disposal contractor. URS personnel observed oily stains on the concrete inside the disassembly shed near the drain station. Minor oily stains on the unpaved ground surface were also observed in various locations in outdoor parts storage areas.
- Ecology files related to a Stormwater Pollution Prevention Plan (SWPPP) implemented at the subject property suggest that some of the best management practices (BMPs), outlined in the plan are not in effect. In a 2002 inspection report related to the SWPPP, Ecology personnel documented excellent housekeeping at the site, with the exception of the presence of a few oily, auto parts stored on unpaved surfaces.
- Evidence of existing or former above ground storage tanks (ASTs) and/or underground storage tanks (USTs) on the subject property is not indicated in available records, nor was such evidence observed during the site reconnaissance conducted by URS.
- Two samples of roofing sealant collected by URS at the subject property during a "Good Faith" ACM survey contained asbestos in regulated quantities.
- The site is not identified on environmental regulatory agency databases (EDR 2003). URS did not locate any records of environmental violations or enforcement actions for the subject property.

Based on the presence of surface soil stains on the subject property due to ongoing site activities, it is assumed that incidental spillage has occurred since the activities began over 30 years ago. Based on these findings there is potential for the presence of contaminants in soil on the subject property.

Adjacent and Nearby Properties

The following adjacent properties with confirmed or potential recognized environmental conditions might have potential to affect the subject property:

- An unleaded gasoline UST was formerly present at Lakewood Masonry Supply, which is located approximately 200 feet north of the subject property. Available records neither describe the removal of the UST nor an evaluation of soil and groundwater conditions in the former UST location.
- The EDR report and Pierce County Planning Department records indicate the presence of three USTs at the PJ Holding property, which lies between 100 feet and 700 feet south of the subject property. URS is performing Phase I and II investigations for Sound Transit at this property as well. During a site reconnaissance of the PJ Holding property, URS observed recognized environmental conditions such as extensive surface soil stains. URS is awaiting laboratory results of a Phase II investigation conducted at the PJ Holding property.
- The Kwang property, adjacent to the southwest side of the subject property, has been occupied by automotive sales, repair, and maintenance related businesses since the 1960s. URS is performing Phase I and II investigations for Sound Transit at this property, and during a site reconnaissance observed storage of automobile fluids on site and the presence of surface stains in some areas.
- In the absence of documentation related to the removal of a UST at Lakewood Masonry Supply, without having received the results of a Phase II investigation at the PJ Holding property, and because of the presence of surface soil stains at the adjacent Kwang property, it is inferred that adjacent properties could potentially affect environmental conditions at the subject property.

1.0 INTRODUCTION

1.1 PROJECT BACKGROUND

URS Corporation (URS) was retained by the Central Puget Sound Regional Transit Authority (Sound Transit) to conduct a Phase I Environmental Site Assessment (ESA) of the Lakeview Auto Wrecking property ("subject property") located at 11528 Pacific Highway Southwest in Lakewood, Pierce County, Washington. We understand that Sound Transit is considering acquiring the subject property for future use as a Sounder Commuter Rail Lakewood Connector station. Because of the potential acquisition, Sound Transit retained URS to conduct a Phase I ESA to document environmental conditions on the subject property with respect to hazardous materials/wastes and petroleum products.

The ESA was conducted and this report was prepared in accordance with our Master Services Agreement (contract number RTA-AS-106-02) with Sound Transit (under Purchase Order No. 96541-000-OB) and in accordance with our scope of work dated January 9, 2003, and authorized on January 14, 2003.

1.2 PROJECT OBJECTIVE

The ESA was conducted to identify "recognized environmental conditions" that may exist on the subject property. American Society for Testing and Materials (ASTM) Practice E 1527-00, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM 1527), defines recognized environmental conditions 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" (ASTM 2000). The extent of research to identify recognized environmental conditions is defined by the scope of services.

2.0 SCOPE OF SERVICES

The scope of services for this Phase I ESA included the following tasks:

- **Site Reconnaissance:** Mr. Thomas Kim of URS conducted a site reconnaissance on March 6, 2003 to observe surface conditions, potential contaminant sources, and current activities on the subject and adjoining properties. Mr. Edwin Levesque, the current property owner, provided access to the property and information regarding the site conditions. The reconnaissance was completed based only on visual observations and interviews during the site reconnaissance.
- **Regulatory Records Review:** During the regulatory records review, reasonably ascertainable information was obtained from public agencies (federal, state, and local) and reviewed to assess whether current and past property use within the study area may have created a potential for contamination of the subject property. The regulatory database listings were searched and compiled by an independent information service, Environmental Data Resources, Inc. (EDR) of Southport, Connecticut.
- **Historical Records Review:** URS reviewed historical records for the subject property and vicinity to identify historical land use and operations that could have involved the manufacture, generation, use, storage, and/or disposal of petroleum products or hazardous materials/wastes. Such operations may have adversely affected the subject property.
- **Asbestos Survey:** At the request of Sound Transit and in conjunction with the Phase I ESA, URS conducted a "Good Faith" asbestos survey of the on-site structures. The asbestos survey was conducted by a Asbestos Hazardous Emergency Response Act (AHERA) certified personnel and included sampling and analysis of suspect asbestos-containing materials (ACMs).
- **Evaluation and Report:** URS evaluated the information collected during the above activities to prepare this report, which presents our findings and conclusions concerning the current conditions at the property. Information obtained from the Phase I ESA was also used to develop a Phase II investigation work plan and cost estimate. URS recently conducted a Phase II investigation on the subject property and findings from our Phase II investigation will be provided to Sound Transit under a separate cover.

This Phase I ESA was performed in accordance with ASTM Practice E 1527-00. No exceptions to or deletions from the Practice were made. This work did not include assessment of wetlands; structural, mechanical or electrical systems; indoor air quality; environmental regulatory compliance; or sampling and/or chemical analysis for radon, lead in drinking water, or environmental media.

3.0 GEOGRAPHY, HYDROGEOLOGY AND SITE DESCRIPTION

3.1 GEOGRAPHIC SETTING

The subject property is located in the northwest 1/4 of Section 12, Township 19 North, Range 2 East in the Tacoma South, 15-Minute Quadrangle (USGS 1961). The ground surface at the site is relatively flat and is at an elevation of approximately 270 feet above mean sea level.

The City of Lakewood, as well as most of west-central Pierce County, is located on a vast, glacially formed plain within the southern portion of the Puget Lowland. Prior to extensive development, the glacial plain in the Lakewood area was an open prairie, with gently rolling hills, isolated groups of trees, including fir, oak, and larch, and numerous small lakes (Northwest Magazine 1889).

Surface water plays a key role in defining the practical geographic aspects of Lakewood. Lake Steilacoom is the central, focal point of the city, and Gravelly Lake and the northern half of American Lake form an arc southeast of the downtown core. Clover Creek, another prominent surface water feature, flows through the southeast quarter of Lakewood approximately 3,000 feet south of the subject property, discharges into the south end of Lake Steilacoom, and marks the western terminus of the Clover Creek Watershed. Clover Creek and its many branches drain a large portion of eastern Pierce County and McChord Air Force Base (AFB). Although the city is separated into drainage basins defined by the locations of prominent creeks, surface water runoff in most of the city is directed to drywells and percolates into the ground and shallow groundwater aquifer.

Circa 1908 timber survey maps describe the area around the subject property as open, gravel-covered prairie with some land suitable for cultivation (Pierce County 1908). Based on a comparison of the early maps with the current topography, it does not appear that the ground surface of the parcel has been significantly altered. Unlike nearby parcels, there is no direct evidence of large-scale gravel mining, scraping, or filling of stream channels and/or other naturally low features on the property. This is important to note, because many former stream channels, ponds and/or abandoned gravel pits throughout Lakewood have been used as dump sites prior to being covered with soil.

3.1.1 Land Use

The subject property is located within the southeastern Lakewood city boundary, approximately 0.25 mile northwest of McChord AFB, 600 feet northwest of Interstate 5, and 3,000 feet north of Clover Creek (Figure 1). Historically, land in the vicinity of the subject property has been used for residential neighborhoods, retail businesses, light industrial facilities, gravel mining, military bases, and railroad and freeway right-of way.

3.1.2 Surface Water Runoff

The subject property is within the Ponce de Leon Creek Drainage Basin. Because of historic site development activities, surface water runoff from the subject property does not flow directly into Ponce de Leon Creek. Instead, surface water runoff flows off of the property toward Pacific Highway, where it then flows to municipal drywells located at least a thousand feet south of the

subject property. However, before draining to the highway, most surface water runoff likely infiltrates into the coarse surface soil in unpaved portions of the site.

3.2 HYDROGEOLOGY

URS evaluated the hydrogeologic characteristics of the study area using soil boring logs obtained from the Washington State Department of Ecology, the Lakewood Water District, McChord Air Force Base, and ongoing URS groundwater investigations. In addition, Sound Transit provided to URS a geotechnical investigation report prepared for the subject property by HWA Geosciences, Inc. (HWA) in June 2002.

3.2.1 Regional Geology

The study area is in the elongated (north to south), glacially formed Puget Sound trough between the North Cascades and the Olympic Peninsula. Unconsolidated glacial and interglacial deposits underlie central Pierce County and comprise multiple, extensive groundwater aquifers. From oldest to youngest, the four most commonly recognized major glaciations and their resulting deposits are referred to as the Orting, Stuck, Salmon Springs, and Vashon Stade (Walters and Kimmel, 1968; Noble, 1990). Relatively thin, fine-grained formations were deposited during interglacial periods, the most recent and uppermost being the Olympia Beds (formerly called the Kitsap Formation) below the Vashon Stade. The uppermost aquifer, which directly underlies the subject property, is commonly called the Vashon Drift or "A" aquifer. In general, this unit includes a thick layer of coarse-grained glacial outwash deposits underlain, in many areas, by low-permeability glacial till.

3.2.2 Subject Property Hydrogeology

HWA excavated a test pit in the northern portion of the subject property to a depth of approximately 6 feet bgs and encountered medium dense sandy cobbly gravel. In test pits excavated on the PJ Holding property to the south, similar materials were encountered to depths of approximately 20 feet bgs and groundwater was encountered at approximately 11 feet bgs. In test pits excavated just northeast of the subject property, HWA encountered glacial till at 11 feet bgs, but did not encounter groundwater.

In general, groundwater beneath Lakewood flows west from recharge areas east of the city. However, localized variations in groundwater flow direction and occurrence are strongly influenced by the morphology of very low permeability, shallow glacial till and/or other factors such as the locations and properties of surface water bodies, buried stream channels, and/or upwelling from deeper aquifers. In the vicinity of the subject property, for example, glacial till appears to rise up to form a low ridge beneath the Sweeting property, which abuts the site to the northeast while the subject and PJ Holding properties overlie a highly permeable coarse gravel unit. Shallow groundwater flow will occur primarily in the coarse gravel, whereas the till beneath the Sweeting property will act as a barrier to flow. Furthermore, while available data indicate the presence or absence of groundwater, the data do not indicate the groundwater flow direction.

3.3 SITE DESCRIPTION

The subject property includes an approximately 0.5-acre parcel owned by the Levesque family and a narrow strip of land, (approximately 4,800 square feet) along the length of the northern quarter of the site, which the Levesque family leases from the Burlington Northern Santa Fe (BNSF) Railroad (Figure 2). The tax parcel number for the Levesque-owned portion of the subject property is 0219122107 (First American 2000). The Standard Industrial Classification (SIC) code most closely associated with automobile wrecking operations is 5093. The most recent zoning map available from the City of Lakewood shows that the parcel is designated as "Transit-Oriented Commercial" (TOC) (Lakewood 2003).

4.0 HISTORY OF SITE USES

4.1 HISTORICAL DATA REVIEW

Historical uses of the subject and adjacent properties were evaluated through a review of the following documents:

- Aerial Photographs dated 1969, 1979, 1985, 1992, 1996, and 2000
- Kroll Land Ownership Atlases dated 1915 and 1924
- The McChord Air Museum Foundation online historical summary (2003)
- Metsker Land Ownership Atlases dated 1936, 1941, and 1965
- Pierce County Timber Cruise Survey maps dated 1908
- Polk City directories dated 1975, 1980, 1985, and 1990
- USGS topographic maps dated 1961 and 1981

The presence or absence of “significant change(s)” to the study area noted during the historical review refer to changes in land use considered to have the potential to adversely affect the environment with regard to the use, generation, storage, or disposal of hazardous substances/petroleum products. Examples of changes termed “significant” included construction/demolition of a building, the de-vegetation or grading of land, and/or ownership of property by entities appearing to be commercial and/or industrial in nature.

The identification of potential historical “recognized environmental conditions” on the subject and adjacent properties and environmental conditions that may be due to practices on nearby properties focused on facilities likely to have stored or used hazardous materials and/or petroleum products (e.g., service stations, automotive repair shops, and manufacturing facilities).

The history of land use on and near the subject property, based on our review of records listed above, is presented chronologically in Table 1.

4.2 HISTORICAL SUMMARY

4.2.1 Subject Property

Available records indicate that the subject property has been used as an auto wrecking yard or maintenance shop for at least 30 years. The earliest aerial photograph reviewed for this assessment indicates that the automobile disassembly shed and another small shed were present in the approximate center of the site in 1969 (Walker 1969). Likewise Automobile wrecking and/or maintenance activities are evident in later photographs from 1979 and 1985, the period during which the parts storage building was constructed. Earlier maps and atlases, dated prior to 1969, do not suggest the presence of automobile-related businesses.

Aerial photographs indicate that the majority of the site, with the exception of the auto disassembly shed and the parts storage building, have never been paved. The foundations beneath the shed and main building consist of concrete pads.

4.2.2 Adjacent and Nearby Properties

Properties adjacent to and nearby the subject property include residential neighborhoods, a railroad right-of-way, retail businesses, light industrial facilities, and several automobile dealership and maintenance shops that are concentrated along Pacific Highway Southwest. The federal government developed McChord Air Force Base (AFB), southeast of the subject property, in the late 1930s, on the site of the former Pierce County Airport. Residential areas between McChord AFB and the center of Lakewood were developed throughout the twentieth century, with the most rapid expansion occurring in the 1950s. The majority of commercial development just east and northeast of McChord AFB and along Pacific Highway South began in the early 1960s. Following are brief historical summaries of adjacent properties.

East/Southeast: Pacific Highway Southwest bounds the southeast side of the subject property. Apex Auto Glass (Apex) is located across the highway from the property at 11503 Pacific Highway Southwest. The Apex property consists of an automotive workshop and an unpaved open storage yard, which has been used for automotive related activities since the 1960s. The PJ Holding property, also across the highway, lies between 100 and approximately 700 feet south/southeast of the subject property. PJ Holding has been used as an automobile salvage and scrap metal yard since the mid 1980s. The Pierce County Road Maintenance Department occupied the property between the 1950s and approximately 1980.

Northeast: A long and relatively narrow parcel of vacant land (the Sweeting property) abuts the northeast side of the property and extends several hundred feet to the northeast, approximately parallel to Pacific Highway Southwest. Available records suggest that the Sweeting property has always been vacant, with the exception that an earlier stretch of Pacific Highway once ran through the center of the parcel.

North/Northwest: A Burlington Northern Santa Fe (BNSF) Railroad right-of-way is adjacent to the north side of the property. Residential neighborhoods and a facility called Lakewood Masonry Supply lie beyond the approximately 50-foot-wide right-of-way. Lakewood Masonry Supply includes a large storage yard for bricks, mortar and related supplies. The history of the facility is not described in reasonably available records.

Southwest: The Kwang property, which consists of a used car sales lot and workshop operated by Auto Unlimited, is adjacent to the southwest side of the subject property. Auto Unlimited has occupied the property since approximately 1990. Most of the former businesses on the site were also related to automobile repair, maintenance, and towing.

4.2.3 Subject Property Title Report

A property title report, prepared by First American Title Insurance Company (First American), was provided by Sound Transit for our review (First American 2000). The report indicates that a deed of trust transferring ownership of the property to Edwin and Roland Levesque was recorded in 1982. Easement agreements previously recorded for the subject property were related to Tacoma-Olympia Railroad Company right-of-way, Pacific Telegraph Company communication lines (1910), and underground communication lines installed by Pacific Northwest Bell (First American 2000). Records of environmental liens, such as deed restrictions or restrictive covenants, are not identified in the title report.

Table 1
SUMMARY OF HISTORICAL LAND USE

Date	Location	Land Use	Source
1908	Subject property	Open prairie; some cultivated land on and near the property.	Pierce County Timber Cruise Survey
1915	Subject property	Property ownership was listed under an individual surname. No structures were present on site.	Kroll Atlas
	Vicinity	Large blocks of land in Lakewood area were owned by individual families.	
1924	Subject property	No significant changes.	Kroll Atlas
	Vicinity	No significant changes.	
1929	Vicinity	City of Tacoma constructs and opens Pierce County Airport at the modern day McChord AFB site.	McChord Air Museum Foundation
1936	Subject property	No significant changes.	Metsker Atlas
	Vicinity	No significant changes.	
1938	Vicinity	Pierce County Airport transferred to U.S. Government and named McChord Field.	McChord Air Museum Foundation
1941	Subject property	No significant changes.	Metsker Atlas
	Vicinity	No significant changes.	
1961	Subject property	Two sheds present.	Topographic Map
	Vicinity	Several commercial-scale buildings were located within 0.25 mile east/northeast of the subject property, along Pacific Highway Southwest.	
1965	Subject property	No significant changes.	Metsker Atlas
	Vicinity	Construction of Tacoma section of Interstate 5 was completed.	
1969	Subject property	The automobile disassembly shed was present. A small shed was adjacent to northeast side of the automobile disassembly shed. The ground surface on the remainder of the subject property was unpaved.	Aerial Photograph
	Vicinity	Land uses near the subject property were commercial and light industrial. An apparent automobile salvaging, wrecking or maintenance yard was adjacent to southwest (currently Kwang property). Auto maintenance activities were apparent at the PJ Holding Property (then a road maintenance equipment yard). Retail plazas and warehouses were also present within 0.25 mile, along Pacific Highway Southwest.	
1975	Subject property	Subject property was not listed.	Polk City Directory
	Vicinity	Pierce County Shop/Lakeview Maintenance Shop was listed at 11517 Pacific Highway Southwest (PJ Holding). Lakewood Towing and S&S Auto Wrecking were co-listed at 11536 Pacific Highway Southwest (Kwang). Salvage Sales (Truck Salvaging) was listed at 11602 Pacific Highway Southwest. Equipment Supply Company (maintenance center and service station) was listed at 11634 Pacific Highway Southwest. Shell Station was listed at 11738 Pacific Highway Southwest.	

Table 1 (Continued)
SUMMARY OF HISTORICAL LAND USE

Date	Location	Land Use	Source
1979	Subject property	Automobile wrecking or maintenance activities were apparent. A small shed or storage trailer was present in the northeastern portion of the subject property. The northern quarter of the subject property, currently leased from BNSF, was used as an equipment/parts storage area.	Aerial Photograph
	Vicinity	Building improvements were apparent on the adjacent property to the southwest (Kwang property).	
1980	Subject property	The subject property was listed under "Able Auto Wrecking" (11528 Pacific Highway Southwest).	Polk City Directory
	Vicinity	Jim's Auto Repair & Towing was listed at 11626 Pacific Highway Southwest.	
1981	Subject property	No significant changes.	Topographic Map
	Vicinity	Gravel pits were present approximately 500 feet south, 0.125 mile east, and 0.5 mile northeast of the subject property. An electrical substation was present approximately 0.25 mile to the south.	
1985	Subject property	The part storage building was present.	Aerial Photograph
	Vicinity	Automobiles previously parked on the Kwang property were not present. No other significant changes.	
1985	Subject property	The subject property was listed as Lakeview Auto Wrecking, Inc. at 11528 Pacific Highway Southwest.	Polk City Directory
	Vicinity	Ducolon Mechanical was listed at 11517 Pacific Highway Southwest (PJ Holding). Nanfield Tire Sales & Service was listed at 11503 Pacific Highway Southwest (Apex Auto Glass). Oriental Auto Body was listed at 11618 Pacific Highway Southwest.	
1990	Subject property	No significant changes.	Polk City Directory
	Vicinity	Uncle Sam's Auto Village was listed at 11536 Pacific Highway Southwest (Kwang).	
1992	Subject property	No significant changes.	Aerial Photograph
	Vicinity	Apparent automobile maintenance or used car sales on the adjacent property to the southwest (Kwang property).	
1996	Subject property	No significant changes.	Aerial Photograph
	Vicinity	No significant changes.	
2000	Subject property	No significant changes.	Aerial Photograph
	Vicinity	No significant changes.	

5.0 RECORDS REVIEW

URS reviewed regulatory agency records to assess potential recognized environmental conditions within search radii prescribed by ASTM 1527 (on and up to 1 mile away from the subject property) for various types of recognized environmental conditions. Prior to reviewing the records, URS obtained an agency database summary for the study area from Environmental Data Resources, Inc. (EDR) of Southport Connecticut to aid in focusing the review. EDR maintains and provides periodically updated lists of properties that are described on environmental agency databases and, upon request, compiles the lists for specific properties together with maps showing property locations and other potentially relevant environmental information.

The complete EDR database report is included in Appendix A. The numbers of properties reported by EDR within applicable ASTM minimum search radii (according to different types of recognized environmental conditions) are summarized in Table 2.

Based on the EDR summary, URS contacted and/or requested specific files from the agencies described below. The types of information requested included, but were not limited to, building permits and inspection records and reports regarding USTs and aboveground storage tanks (ASTs), environmental violations or incidents, and/or the status of enforcement actions on the subject property. The following agencies were contacted:

- **Pierce County Planning Department (Pierce County Archives):** URS reviewed historical land use and construction permits for the subject and adjacent properties.
- **Tacoma-Pierce County Health Department (TPCHD):** URS requested information pertaining to environmental health concerns or environmental violations. A representative from the County Health Department reported that there are no such records on file for the subject property (personal communication, Bell 2003). In addition, URS requested information regarding USTs at the site that may have been gathered as part of a new Pierce County Health Department program to locate unregistered USTs (personal communication, Kellogg 2003).
- **The Washington State Department of Ecology Southwest Regional Office (Ecology):** URS requested information pertaining to environmental violations or enforcement actions on the subject and adjacent properties. Ms. Marilou Pivrotto of the Ecology Southwest Regional Office (SWRO) provided to URS a copy of a Stormwater Pollution Prevention Plan (SWPPP), which was prepared for the subject property in 1992 and renewed in 2002.
- **McChord AFB:** URS requested information about sites located in the northwest corner of the installation (personal communication, Gibbens 2003).

At most properties, general groundwater flow directions can be estimated based on topography and hydrogeologic features in the vicinity. However, the localized subsurface conditions do not allow for a defensible prediction of groundwater flow direction beneath the subject property. Therefore, the locations of contaminated sites in the study area with respect to the subject property and groundwater flow direction are also unclear. Therefore, the potential for a contaminated site in the study area to affect the environmental conditions on the subject property is evaluated here based primarily on the distance of the site from the subject property, the

reported extent of contamination, and/or the groundwater flow direction reported for the property where the contamination exists.

5.1 SUBJECT PROPERTY

The subject property is not listed on any of the environmental regulatory agency databases searched by EDR. However, Ecology records include a SWPPP, which was prepared for the subject property in 1992, and a report of an inspection conducted by Ecology, in association with renewal of the SWPPP, in 2002. A copy of the SWPPP and photographs from the Ecology inspection are presented in Appendix B.

The SWPPP identified potential pollutants of concern on the subject property including petroleum products, cleaning solvents, and other automotive fluids (e.g., crankcase oil, battery acid, transmission fluids) (Personal communication, Pivrotto 2003). The SWPPP also required the implementation of Best Management Practices (BMPs) such as development of a biofiltration swale and/or stormwater settlement pond and quarterly stormwater sampling and analysis.

Ecology's 2002 SWPPP renewal inspection report (Appendix B) indicates that exceptionally good housekeeping practices are maintained at the subject property. These practices include such activities as draining automobile fluids in paved and covered areas and storing drums in covered sheds. Environmental concerns identified in the renewal inspection report included an absence of documentation of quarterly inspections (stormwater sampling) and storage of a small number of oily parts in unpaved areas.

URS visited the Pierce County Planning Department and reviewed historical land use permits for the subject property. In October 1980, a permit was issued for wrecking yard operations on-site. Subsequent permits on file for the subject property were associated with cutting or welding operations (Pierce County 2003). There were no records of USTs or aboveground storage tanks (ASTs) on file for the subject property.

URS contacted the TPCHD to obtain information pertaining to environmental health concerns or environmental violations. A representative from the County Health Department reported that there are no such records on file for the subject property (Personal communication, Bell 2003). The TPCHD also indicated that the department has not yet compiled a list of USTs located in the study area as part of their effort to locate all USTs in Pierce County (Personal communication, Kellogg 2003).

Based on available environmental regulatory agency records, there is potential for the presence of minor, surface soil stains on parts of the subject property. Observations of the subject property during a site reconnaissance (Section 6) did not reveal evidence that BMPs recommended in the SWPPP have been implemented.

5.2 ADJACENT AND NEARBY PROPERTIES

The database summary report prepared by EDR (Appendix A) identifies twenty-five sites within the search radii prescribed by ASTM 1527 for various types of environmental conditions. Some of the sites appear on multiple regulatory databases and/or a single address or name identifies multiple sites. The EDR report identifies only one NPL site within one mile of the subject

property. However, based on URS knowledge of the study area, there is a second NPL site at McChord AFB that extends to within approximately 3,000 feet of the subject property.

Most of the sites identified in the EDR database report are considered to have little or no potential to affect environmental conditions at the subject property because the sites are reportedly cleaned up or are a relatively large distance away from the subject property (e.g., greater than 0.25 mile).

Twenty-one unmapped "orphan" sites are also identified in the EDR database report. Unmapped orphan sites are facilities that EDR has not plotted on a map, based on a lack of sufficient data regarding their exact location within the general area. URS did not observe any of the orphan sites near the subject property (based on EDR descriptions) during the site reconnaissance. Two of the orphan sites identified by EDR, the Clorox Xytech Remediation Site at 9314A 47th Avenue Southwest and the McChord Custom Cleaners Site at 12923 Bridgeport Way appear to be approximately 0.25 mile from the subject property, based on the addresses listed.

The following sections describe only those sites in the study area with potential to affect the subject property (based on proximity) and nearby sites within prescribed ASTM search radii with existing recognized environmental conditions. The sections are arranged according to the regulatory databases in which the relevant properties are identified.

5.2.1 NPL

The EDR report identifies one National Priorities List (NPL) site within one mile of the subject property. The site, commonly called the "Lakewood Plaza Cleaners Superfund Site (EDR ID No. 0), is located at 12509 Pacific Highway Southwest and is 0.75 mile southwest of the subject property. It is also included in the following databases: The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), and Resource Conservation and Recovery Information System (RCRIS) Small Quantity Generator (SQG).

Lakewood Plaza Cleaners was placed on the NPL, because chlorinated solvents released at the site were confirmed to be present in Lakewood Water District supply wells H-1 and H-2, which are located 800 feet southeast of the cleaners source area (EPA 2002; Ecology 2002). The released solvents included trichloroethylene (TCE), tetrachloroethylene (PCE) and cis-1, 2 dichloroethylene (DCE). Ecology confirmed the water supply well contamination in 1981. Site remediation, including operation and maintenance of a groundwater treatment system, was conducted from the mid-1980s to the early 1990s. In November 1996, the EPA issued a notice of "partial NPL deletion" of the site for soils only (EPA 1996). As of 2000, chlorinated solvents were still present in groundwater south of the site at concentrations exceeding cleanup standards (Ecology 2002). However, based on the site's distance from the subject property and the reported southerly migration of contaminants, there is little potential for the contamination to affect the environmental conditions at the subject property.

According to the EDR report, McChord AFB (EDR ID Nos. J31 through J38) is included in the following databases: Corrective Action (CORRACTS), Confirmed and Suspected Contaminated Sites List (CSCSL), CERCLIS, Leaking Underground Storage tank (LUST), UST, and RCRIS SQG. An area with groundwater affected by chlorinated solvents migrating off of the AFB near the Lakewood neighborhood of Springbrook (approximately 3,000 feet south of the subject property) is also an NPL site according to an interview of McChord AFB personnel conducted

by URS. The EDR report appears to fail to recognize this NPL site, but may include it in an umbrella listing for the American Lakes Garden Tract (ALGT), which is a deleted NPL site. Based on an interview with McChord AFB personnel, the front of the solvent plume near Springbrook is at least 3,000 feet from the subject property (Personal communication, Gibbens 2003).

5.2.2 CSCSL

EDR reports ten sites listed on the Confirmed and Suspected Contaminated Sites List (CSCSL) that are within 0.5 mile of the subject property. Only one of the sites is relatively close to the subject property and appears to have recognized environmental conditions. The Washington State Department of Transportation (WSDOT) Lakeview Maintenance Facility (also called the Tacoma Area Maintenance Facility Site) at 11211 41st Avenue Southwest (EDR ID Nos. D9, D11, D12, and D13) is approximately 0.25 mile northeast of the subject property. Contaminants of concern include "petroleum products" from USTs, and the affected media are soil and groundwater. The site remediation status is listed as "residual contamination left on-site" and "on-going institutional controls required." The facility is also included on the following regulatory databases: LUST, UST, Washington State Independent Cleanup Reports (ICR), and RCRIS-SQG. Based on its distance from the subject property, the site is considered to have a low potential to affect environmental conditions on the subject property.

5.2.3 LUST

The EDR report identifies four LUST sites within 0.5 mile of the subject property. Only one of the sites appears to have existing groundwater contamination and is still undergoing remediation and/or monitoring. Unocal/Tosco Station #3588 (EDR ID Nos. G21 and G22) is approximately 0.25 mile southwest of the subject property at 11919 Pacific Highway Southwest. In addition to being a LUST site, it is included on the UST and ICR databases. Contaminants of concern include petroleum products, and the affected media are soil and groundwater. Site characterization and groundwater monitoring reports were submitted to Ecology from 1996 to 2002 and indicate ongoing groundwater monitoring. Because of the station's distance from the subject property, there is very little or no potential for migration of petroleum products to the subject property via groundwater.

5.2.4 UST

The EDR report identifies two UST sites that are adjacent to the subject property. These include Ray Ducolon Mechanical (PJ Holding), located approximately 100 feet south of the subject property at 11517 Pacific Highway Southwest, and Lakewood Masonry Supply, located approximately 200 feet northeast of the subject property at 4610 113th Street Southwest.

EDR reports that two USTs are present at the PJ Holding property across the street and south of the subject property. One of the tanks is an operational, unleaded gasoline tank with a volume between 2,000 and 5,000 gallons. The second, exempt tank is a similar size. Based on a review of historical construction plans for the property maintained at the Pierce County Archives, these two tanks were installed next to each other, south of the main building on the PJ Holding property, in the 1950s (Pierce County Archives 2003). The current occupant of the property, Ray Ducolon, indicated to URS that only one UST is present in this location and was last used

for diesel storage approximately 5 years ago. Mr. Ducolon also indicated that the tank is currently empty.

Construction plans at the Pierce County Archives also include a drawing of a third tank, which might be present near the western boundary of the PJ Holding property. The records indicate that the tank was used for road-oil storage when the Pierce County Road Maintenance Department occupied the property (Pierce County Archives 2003). Available records do not describe the final disposition of the road oil tank.

Currently, URS is conducting a soil and groundwater investigation at the PJ Holding property. At the time of the writing of this ESA report, URS has not received analytical results for soil and groundwater samples collected by URS at the PJ Holding property in March 2003.

The second, adjacent UST property is Lakewood Masonry Supply, which lies between approximately 200 and 400 feet north of the subject property. According to EDR, one unleaded gasoline UST with a volume between 111 and 1,100 gallon was removed from the site (accurate installation/removal dates are not specified). Available records do not describe the removal of the UST or the soil and/or groundwater conditions encountered during the tank removal. In the absence of detailed information regarding the UST and the localized groundwater flow direction, it is inferred that there is potential for this UST site to have affected groundwater conditions at the subject property.

Table 2
SUMMARY OF DATABASE REVIEW RESULTS

Type of Database	Description of Database/Effective Date	Radius Searched	Number of Sites Identified
Federal National Priorities List (NPL)	The NPL identifies uncontrolled or abandoned hazardous waste sites. To appear on the NPL, sites must have met or surpassed a predetermined hazard ranking system score, been chosen as a state's top priority site, pose a significant health or environmental threat, or be a site where the EPA has determined that remedial action is more cost-effective than removal action. Effective Date – October 2001	1 mile	1 (EDR) 1 (URS)
Federal Corrective Action (CORRACTS) List	The CORRACTS database identifies hazardous waste handlers with RCRA Corrective Action activity. Effective Date – September 2001	1 mile	1
Federal Resource Conservation & Recovery Act (RCRA) treatment, storage, or disposal sites (TSDs)	RCRA TSD sites Effective Date – June 2000	0.5 mile	0
Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)/No Further Remedial Action Planned (NFRAP)	The CERCLIS database identifies hazardous waste sites that require investigation and possible remedial action to mitigate potential negative impacts on human health or the environment. CERCLIS/NFRAP sites are also included. Effective Date – October 2001	0.5 mile	1
Federal RCRA Generators (RCRIS)	RCRA-regulated hazardous waste generator notifier list; both Large and Small Quantity Generators (LQG and SQG, respectively) are included in this list. Effective Date – June 2000	Site and adjacent	0 (LQG) 7 (SQG)
Federal Emergency Response	EPA's ERNS list contains reported spill records of oil and	Site	0

Type of Database	Description of Database/Effective Date	Radius Searched	Number of Sites Identified
Notification System (ERNS)	hazardous substances. Effective Date – August 2000	Only	
State Solid Waste Landfill (SWLF)	State inventory of solid waste disposal and landfill sites. Effective Date – December 2001	0.5 mile	0
State Independent Cleanup Reports (ICRs)	Compilation of facilities for listed activities related to the assessment and cleanup of sites under the Model Toxics Control Act (MTCA). Effective Date – October 2001	0.5 mile	7
State Confirmed & Suspected Contaminated Sites List (CSCSL)	Compilation of state hazardous waste sites, which include state-equivalent CERCLIS sites. Effective Date – May 2001	0.5 mile	10
State Leaking Underground Storage Tank (LUST)	List of information pertaining to all reported LUSTs. Effective Date – December 2001	0.5 mile	4
State Underground Storage Tank (UST)	State UST sites listing. Effective Date – September 2001	Site and adjacent	2
EDR Unmapped ("Orphan") Sites	Sites that have not been plotted on a map, based on a lack of sufficient data regarding their exact location within the general area.	—	21

6.0 SITE RECONNAISSANCE

Mr. Thomas Kim of URS conducted a site reconnaissance of the subject property on March 6, 2003. Mr. Edwin Levesque, the current property owner, accompanied Mr. Kim during the reconnaissance and provided information regarding the site's history and the activities conducted there. Selected photographs taken during the site reconnaissance are presented in Appendix C (Photographs 1 through 12). Information regarding the parcel boundary was obtained from the Pierce County Planning Department and was used to develop the Site Plan shown in Figure 2.

6.1 INTERVIEWS

According to interviews conducted by URS during the site reconnaissance, Mr. Levesque acquired the 0.5-acre parcel (0219122107) in the early 1980s from Mr. Stanley Sweeting (Figure 2). The subject property ownership is currently held under the partnership of Mr. Levesque and his brother Mr. Roland Levesque. Since the 1980s, the Levesque brothers have also leased a narrow strip of land (approximately 240 feet by 20 feet), which is in the northern quarter of the subject property (Figure 2). The leased land is owned by BNSF. The automobile disassembly shed was constructed before 1980s and the parts storage building was constructed in 1980, shortly after Mr. Levesque acquired the property.

6.2 GENERAL CONDITIONS

The most prominent improvement on the subject property is the parts storage building, which is located in the southwest quarter of the property. It encompasses a parts warehouse, lobby, office, and a restroom and is supported by a concrete pad foundation. A customer parking area is located on the southeast side of the building next to Pacific Highway Southwest and is accessible from the highway twenty-four hours per day. The remainder of the site is fenced and locked during non-business hours.

The auto disassembly shed is a three-sided garage located next to the northernmost corner of the parts storage building, with its open side facing east. The northern third of the structure is used for storage and the southern two thirds are used to dismantle and/or repair cars. The foundation of the building consists of a concrete pad.

Current activities conducted on the subject property include automobile wrecking and parts sales. Used cars are dismantled in the automobile disassembly shed (Photograph 3), the parts are stored throughout the site (inside and outside of buildings), and parts sales are conducted in the lobby of the parts storage building (Photographs 1 and 2 and Figure 2). Most of the outdoor storage areas are used for relatively large auto-body parts displayed on wooden racks and stored in old 55-gallon drums (Figure 2 and Photographs 4 and 9). Smaller engine parts are kept in the parts storage building or temporary storage trailers.

6.3 UTILITIES

The Lakewood Water District provides potable water to the subject property. The subject property, as well as the surrounding area, was connected to the City of Lakewood sanitary sewer

system in the 1980s (personal communication, Larkin 2003). Lakeview Light and Power supplies electricity to the subject property. A Natural gas line is present along Pacific Highway South, but URS did not observe a connection to the property. The two permanent structures on-site are not heated by built-in heating systems.

6.4 ABOVEGROUND AND UNDERGROUND STORAGE TANKS

Aboveground storage tanks (ASTs) or evidence of USTs such as fill ports or vent pipes were not observed during the site reconnaissance. Mr. Levesque reported no knowledge of existing or former ASTs and/or USTs on the subject property.

6.5 HAZARDOUS MATERIALS AND WASTE

Mr. Levesque reported that during the auto dismantling process, engine fluids such as motor oil, gasoline, and antifreeze, are siphoned or extracted at a drain station inside the auto disassembly shed. URS personnel also observed a solvent sink equipped with a 35-gallon drum that appears to be used for parts washing. Mr. Levesque reported that waste oil, used solvents, and antifreeze are transported and disposed off-site biannually by Safety Kleen, a licensed disposal contractor. Hazardous and potentially hazardous materials observed by URS personnel during the site reconnaissance included the following:

- Ten 55-gallon drums of waste oil and four 55-gallon drums of antifreeze were present inside the disassembly shed inside of secondary containment structures (horse troughs) (Photograph 5).
- Approximately fifteen 1- to 5-gallon containers of gasoline and motor oil were also present in the shed (Photograph 6).
- Lubricants, paint thinners, and various aerosols, in containers ranging from 12-fluid ounce to 1 gallon, were observed in the northwestern portion of the parts storage building (Photograph 11).
- A tote containing used batteries was observed adjacent to south of the disassembly shed (Photograph 8).

Two unlabeled 55-gallon drums, in relatively poor condition, were present north of the parts storage building at the time of the site reconnaissance. Mr. Levesque reported that the two drums are empty and were previously used to store automobile parts (Photograph 10).

Apart from oily stains beneath the drain station inside the disassembly shed and minor stains at various locations in outdoor storage areas (Photograph 7), URS did not observe other recognized environmental conditions related to hazardous materials stored on the site.

6.6 POLYCHLORINATED BIPHENYL (PCB) COMPOUNDS

Fluorescent lights are present in the parts storage building and disassembly shed. Mr. Levesque reported that many of the fixtures were replaced several years ago. However, based on the reported construction dates of the buildings (early 1980s and 1960s, respectively), there is a potential that some of the light fixtures are fitted with ballasts containing PCBs. Other electrical appliances potentially containing PCBs were not observed or reported on the subject property.

6.7 WELLS, DRAINS, AND SUMPS

Storm drains are present near the subject property along Pacific Highway Southwest. Surface water runoff from the highway flows into the drains and is directed to municipal drywells located several blocks south of the subject property. A small amount of surface water runoff from the subject property might flow into the drains. However, given the coarse nature of surface soil on the site, it is likely that most precipitation and stormwater runoff percolates into the ground.

Available historical records do not indicate that a septic system was present on the subject property prior to the installation of the sewer system in the 1980s. No water supply wells, groundwater monitoring wells, or sumps were observed on the subject property.

6.8 SOLID WASTE

Solid waste generated on the subject property is discarded or recycled off-site.

6.9 ASBESTOS-CONTAINING MATERIALS

URS conducted a "Good Faith" asbestos survey that included collection and analysis of 18 samples of suspect asbestos-containing materials (ACMs). Analytical results from the survey indicate two of the 18 samples contained asbestos in regulated quantities (e.g., greater than 1 percent). The samples were representative of roofing sealant. A detailed description of the asbestos survey and results is presented in Appendix D.

8.0 LIMITATIONS

URS has performed our services for this project in accordance with the Agreement with Sound Transit, the Scope of Work dated January 9, 2003, and with the ASTM Practice E 1527-00 for conducting Phase I ESAs; no guarantees are either expressed or implied.

The record search was limited to information that is reasonably available from public sources. This information is changing continually and is frequently incomplete. Unless we have actual knowledge to the contrary, information obtained from interviews or provided to us has been assumed to be correct and complete. We do not assume any liability for information that has been misrepresented to us or for items not visible, accessible, or present on the subject property at the time of the site visit.

The approximate size of the subject property and the parcel boundaries are based on information provided by Sound Transit and the Pierce County Planning Department. Accordingly, URS accepts no responsibility for any deficiency, misstatements or inaccuracy contained in this report as a result of misstatements, omissions, misrepresentations, or fraudulent information provided by the persons interviewed.

There is no investigation thorough enough to preclude the presence of materials on the subject property that presently, or in the future, may be considered hazardous. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants present and considered to be acceptable may, in the future, become subject to different regulatory standards and require remediation.

Where records indicate that prior remedial work and/or tank removals have occurred, there is a risk that the work may not have been performed correctly or completely. In these cases, if the regulatory agency has approved the closure of the tank or other work done, we have assumed that the work was done correctly and completely.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. Unless site conditions change, this document and the information contained herein are valid for a period of 180 days according to the ASTM Practice and have been prepared solely for the use of Sound Transit. No third party shall have the right to rely on our opinions rendered in connection with the services or in this document without our written consent and the third party's agreement to be bound to the same conditions and limitations as the client.

The qualifications of the URS project manager and of the other environmental professionals involved in this ESA meet the URS corporate requirements for performing ESAs. Resumes of these environmental professionals are provided in Appendix E.

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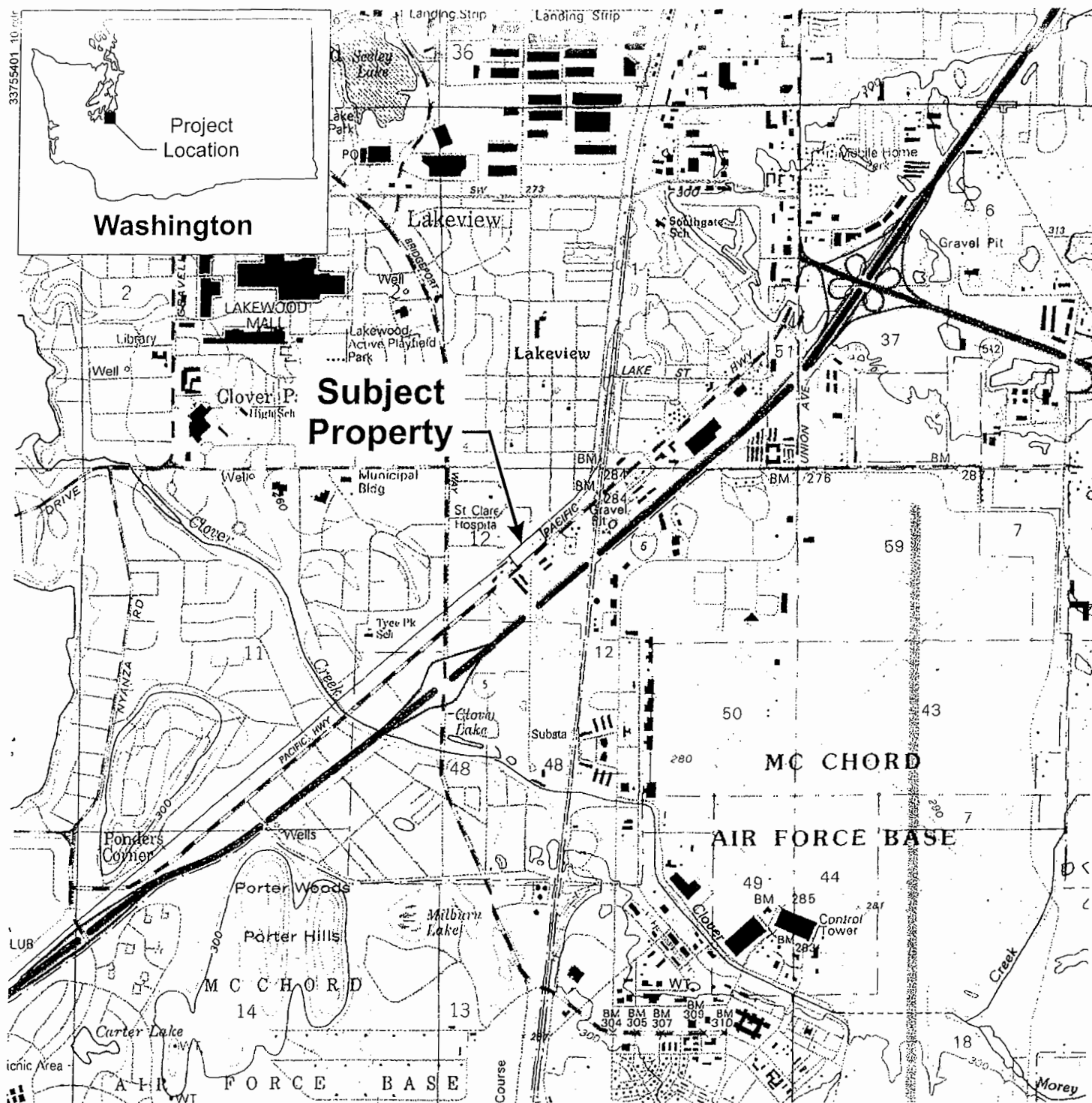
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Map created with TOPO!™ © 1997 Wildflower Productions, www.topo.com,
based on USGS topographic maps: Tacoma and Steilacoom, Washington, dated 1994



0 0.5 1.0

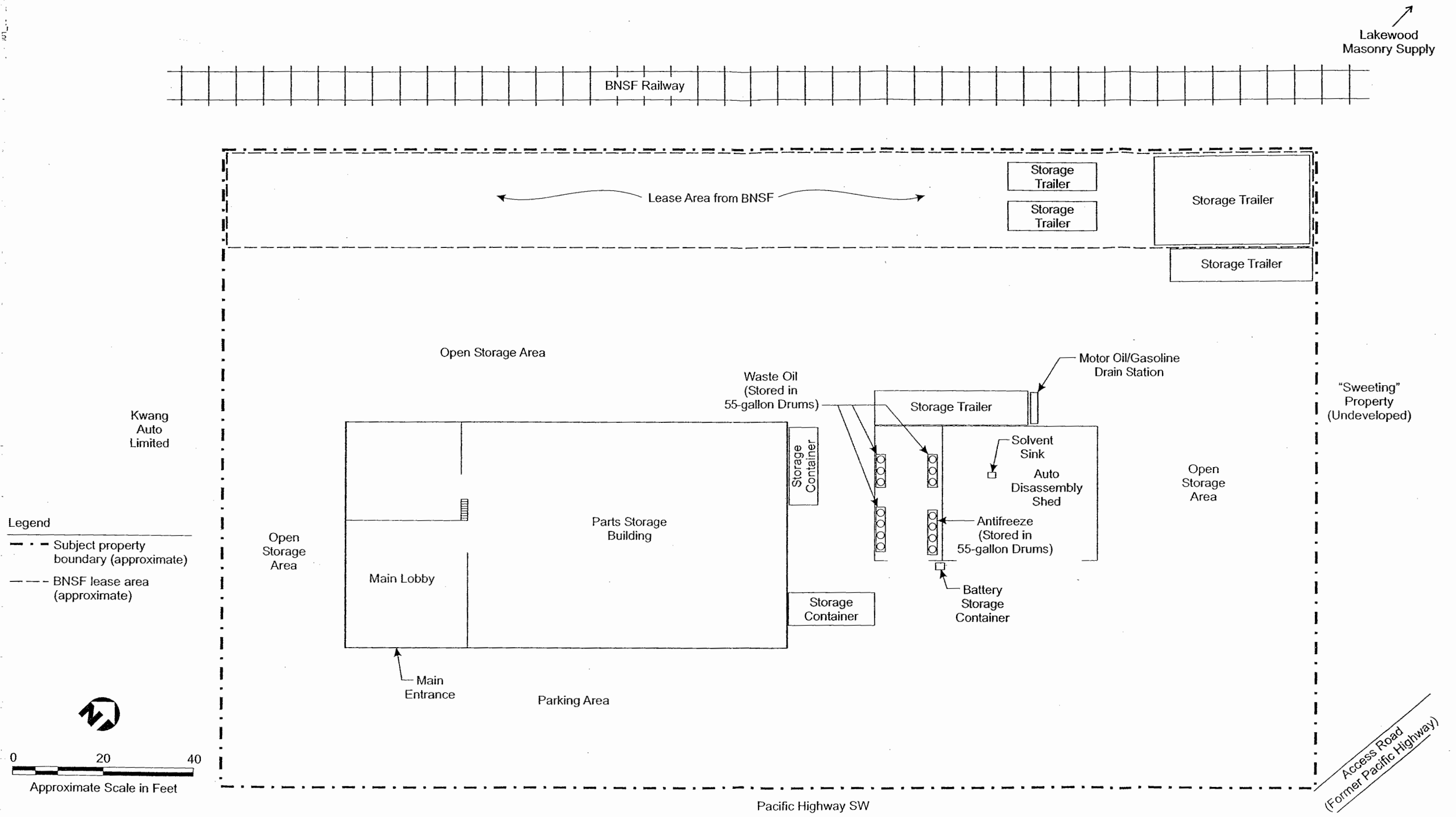
Scale in Miles

Figure 1
Site Location Map

Job No. 33755401

URS

Sound Transit
Levesque/Lakeview Auto Wrecking Property – Lakewood, Washington



Appendix A
EDR Database Report



The EDR Radius Map with GeoCheck®

**Lakewood ST Sites
11520 Pacific Highway SW
Lakewood, WA 98499**

Inquiry Number: 0911266.1r

January 15, 2003

The Source For Environmental Risk Management Data

**3530 Post Road
Southport, Connecticut 06890**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

11520 PACIFIC HIGHWAY SW
LAKEWOOD, WA 98499

COORDINATES

Latitude (North): 47.153200 - 47° 9' 11.5"
Longitude (West): 122.497900 - 122° 29' 52.4"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 538064.3
UTM Y (Meters): 5222092.5

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 2447122-B4 TACOMA SOUTH, WA
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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 ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

Proposed NPL..... Proposed National Priority List Sites
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
RCRIS-TSD..... Resource Conservation and Recovery Information System
RCRIS-LQG..... Resource Conservation and Recovery Information System
ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

HSL..... Hazardous Sites List
SWF/LF..... Solid Waste Facility Database
INDIAN UST..... Underground Storage Tanks on Indian Land

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees
FINDS..... Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS..... Hazardous Materials Information Reporting System

EXECUTIVE SUMMARY

MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
NPL Liens	Federal Superfund Liens
PADS	PCB Activity Database System
RAATS	RCRA Administrative Action Tracking System
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

CSCSL NFA	Confirmed & Contaminated Sites - No Further Action
SPILLS	Reported Spills
EMI	Washington Emissions Data System

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas	Former Manufactured Gas (Coal Gas) Sites
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SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree 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. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. 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 (by more than 10 feet). 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.

FEDERAL ASTM STANDARD

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 10/24/2002 has revealed that there is 1 NPL site within approximately 1.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LAKWOOD	I-5 AND NEW YORK AVE	1/2 - 1 S	0	6

EXECUTIVE SUMMARY

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 09/29/2002 has revealed that there is 1 CORRACTS site within approximately 1.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
USAFB MCCHORD	MCCHORD AIR FORCE BASE	1/2 - 1 SSE	31	36

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 09/09/2002 has revealed that there are 7 RCRIS-SQG sites within approximately 0.375 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ORIENTAL AUTO BODY	11618 PACIFIC HWY SW	0 - 1/8 SW	A2	10
BEST JAPANESE AUTO REPAIR	11626 PACIFIC HWY SW	1/8 - 1/4 SW	A3	11
TYEE CLEANERS & LAUNDROMAT	4924 115TH ST CT SW	1/8 - 1/4 W	5	12
U HAUL CO OF LAKEWOOD	11740 PACIFIC HWY S	1/4 - 1/2 SW	B6	12
WA DOT AREA 1 MAINT HQ	11211 41ST AVE SW	1/4 - 1/2 ENE	D9	14
LAKEVIEW LIGHT & POWER	11509 BRIDGEPORT WAY SW	1/4 - 1/2 W	C10	15
ST CLARE HOSPITAL	11315 BRIDGEPORT WAY SW	1/4 - 1/2 WNW	E15	20

STATE ASTM STANDARD

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, has revealed that there are 10 CSCSL sites within approximately 1.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
WA DOT LAKEVIEW MAINTENANCE FA	11211 41ST AVE SW	1/4 - 1/2 ENE	D12	16
WA DOT BRIDGEPORT WAY INTERCHA	12320 BRIDGEPORT WAY SW	1/2 - 1 SSW	I27	33
WA DOT BRIDGEPORT WAY INTERCHA	12320 BRIDGEPORT WAY SW	1/2 - 1 SSW	I28	34
TEXACO STAR MART #63-232-0042	10117 S TACOMA WAY SW	1 - 2 NE	32	40
USAF MAFB AMERICAN LK GDN	62ABG DEEV	1 - 2 ESE	J33	42
USAF MAFB MTCA LF 01 02	62 CES CEV	1 - 2 ESE	J34	46
USAF MAFB MTCA WP 61	62 CES CEV	1 - 2 ESE	J35	47
USAF MAFB MTCA WP 34	62 CES CEV	1 - 2 ESE	J36	49
USAF MAFB MTCA 23 NFAS	62 CES CEV	1 - 2 ESE	J37	50
USAF MAFB WASHRACK	62ND CES CEV	1 - 2 ESE	J38	52

EXECUTIVE SUMMARY

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 09/03/2002 has revealed that there are 5 LUST sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
TACOMA AREA MAINTENANCE FAC. S	11211 - 41ST SW	1/4 - 1/2ENE	D13	18
TOP AUTO, INC.	11111 BRIDGEPORT WAY S.	1/4 - 1/2NW	18	21
FLOYD SINGLETARY	11910 PACIFIC HWY SOUTH	1/4 - 1/2SW	F19	22
TOSCO CORPORATION SITE #253588	11919 PACIFIC HWY SW	1/4 - 1/2SW	G21	23
ICA INCORPORATED	12320 BRIDGEPORT WAY SW	1/2 - 1 SSW	I29	34

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 09/03/2002 has revealed that there are 8 UST sites within approximately 0.375 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
RAY DUCOLON	11517 PACIFIC HY SW	0 - 1/8 SSE	1	10
LAKEWOOD MASONRY SUPPLY	4610 113 TH SW	1/8 - 1/4N	4	11
NK'S MART	11747 PACIFIC HWY SW	1/4 - 1/2SW	B7	13
LAKEVIEW LIGHT & POWER CO INC	11509 BRIDGEPORT WAY SW	1/4 - 1/2W	C8	13
TACOMA AREA MAINTENANCE FAC. S	11211 - 41ST SW	1/4 - 1/2ENE	D13	18
GARY HENRICKSEN DBA LAKEWOOD C	11621 BRIDGEPORT WAY S.	1/4 - 1/2WSW	14	19
ST. CLARE HOSPITAL	11315 BRIDGEPORT WAY SW	1/4 - 1/2WNW	E16	20
KENTUCKY FRIED CHICKEN	11717 BRIDGE PORT WAY S	1/4 - 1/2WSW	17	21

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 06/30/2002 has revealed that there are 2 VCP sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BP SERVICE STATION 11260	10801 BRIDGEPORT WAY	1/2 - 1 NW	H23	28
RENTAL MART	10712 BRIDGEPORT WAY SW	1/2 - 1 NW	H25	30

FEDERAL ASTM SUPPLEMENTAL

RODS: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, has revealed that there are 2 ROD sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LAKEWOOD	I-5 AND NEW YORK AVE	1/2 - 1 S	0	6

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
USAFB MCCHORD	MCCHORD AIR FORCE BASE	1/2 - 1 SSE	31	36

Delisted NPL: 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.

A review of the Delisted NPL list, as provided by EDR, and dated 10/18/2002 has revealed that there is 1 Delisted NPL site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
USAFB MCCHORD	MCCHORD AIR FORCE BASE	1/2 - 1 SSE	31	36

STATE OR LOCAL ASTM SUPPLEMENTAL

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 WA ICR list, as provided by EDR, has revealed that there are 7 WA ICR sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
WDOT - LAKEWOOD FACILITY	11211 41ST AVE. SW	1/4 - 1/2 ENE	D11	16
TEXACO #398	11910 PACIFIC HIGHWAY S	1/4 - 1/2 SW	F20	23
UNOCAL/TOSCO #3588	11919 PACIFIC HWY SW	1/4 - 1/2 SW	G22	25
BP #11260	10801 BRIDGEPORT WAY	1/2 - 1 NW	H24	28
RENTAL MART	10712 BRIDGEPORT WAY SW	1/2 - 1 NW	H25	30
EXXON STATION 7142	12315 BRIDGEPORT WAY SW	1/2 - 1 SSW	I26	32
ICA, INCORPORATED	12320 BRIDGEPORT WAY SW	1/2 - 1 SSW	I30	36

BROWNFIELDS DATABASES

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 06/30/2002 has revealed that there are 2 VCP sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BP SERVICE STATION 11260	10801 BRIDGEPORT WAY	1/2 - 1 NW	H23	28
RENTAL MART	10712 BRIDGEPORT WAY SW	1/2 - 1 NW	H25	30

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
USAF MAFB MTCA WP 44	CSCSL
FAIRLONG DRIVE DRUM	CERCLIS, FINDS
MCCHORD CUSTOM CLEANERS	CERC-NFRAP
MCCHORD INERT WASTE LANDFILL (PERMIT 27-104)	SWF/LF
BUILDING 33	LUST, UST
MCCHORD AFB/B53K046/MCABWAQ4540	LUST, UST
STEILACOOM CHEVRON	UST
MCCHORD U.S. AIR FORCE	UST
ASR MCCHORD	UST
ATBM MCCHORD	UST
SECURITY PACIFIC BANK OF WASHINGTON	UST
BOESENS COLLISION CENTER INC	RCRIS-SQG, FINDS
INTERSTATE BRANDS CO WONDER BREAD BAKER	RCRIS-SQG, FINDS
REGIONAL TRANSPORT SERVICES	RCRIS-SQG, FINDS
LAKE LOUISE DR DRUG LAB	RCRIS-SQG, FINDS
PENNZOIL QUAKER STATE CO	RCRIS-SQG, FINDS
RELM WEST INC LAKEWOOD	RCRIS-SQG, FINDS
CLOROX XYTEC REMEDIATION SITE	RCRIS-SQG, FINDS
WA DOT PIT B160	RCRIS-SQG, FINDS
PROFESSIONAL SERVICE INDUSTRIES S TACOMA	RCRIS-SQG, FINDS
RELM WEST INC	HAZNET

OVERVIEW MAP - 0911266.1r - URS Corporation



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- National Priority List Sites
- Landfill Sites

- ~ Power transmission lines
- ~ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- Wetlands

TARGET PROPERTY: Lakewood ST Sites
ADDRESS: 11520 Pacific Highway SW
CITY/STATE/ZIP: Lakewood WA 98499
LAT/LONG: 47.1532 / 122.4979

CUSTOMER: URS Corporation
CONTACT: Phyllis Rettke
INQUIRY #: 0911266.1r
DATE: January 15, 2003 12:53 pm

[illegible]

-
- 0 1/16 1/8 1/4 Miles
- 1 2 3

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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
<u>FEDERAL ASTM STANDARD</u>								
NPL		1.125	0	0	0	1	0	1
Proposed NPL		1.125	0	0	0	0	0	0
CERCLIS		0.625	0	0	0	1	NR	1
CERC-NFRAP		0.375	0	0	0	NR	NR	0
CORRACTS		1.125	0	0	0	1	0	1
RCRIS-TSD		0.625	0	0	0	0	NR	0
RCRIS Lg. Quan. Gen.		0.375	0	0	0	NR	NR	0
RCRIS Sm. Quan. Gen.		0.375	1	2	4	NR	NR	7
ERNS		0.125	0	NR	NR	NR	NR	0
<u>STATE ASTM STANDARD</u>								
CSCSL		1.125	0	0	1	2	7	10
HSL		1.125	0	0	0	0	0	0
State Landfill		0.625	0	0	0	0	NR	0
LUST		0.625	0	0	4	1	NR	5
UST		0.375	1	1	6	NR	NR	8
VCP		0.625	0	0	0	2	NR	2
INDIAN UST		0.375	0	0	0	NR	NR	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	2	NR	2
Delisted NPL		1.000	0	0	0	1	NR	1
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
CSCSL NFA		0.500	0	0	0	NR	NR	0
WA ICR		0.625	0	0	3	4	NR	7
SPILLS		TP	NR	NR	NR	NR	NR	0
WA Emissions		TP	NR	NR	NR	NR	NR	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>								
Coal Gas		1.000	0	0	0	0	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
-----------------	----------------------------	--	-----------------	------------------	------------------	----------------	---------------	--------------------------

BROWNFIELDS DATABASES

VCP		0.625	0	0	0	2	NR	2
-----	--	-------	---	---	---	---	----	---

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
Database(s) EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

NPL
Region
South
1/2-1
4262 ft.

LAKEWOOD
I-5 AND NEW YORK AVE
LAKEWOOD, WA 98438

CERCLIS 1000344885
RCRIS-SQG WAD050075662
FINDS
NPL
ROD

CERCLIS Classification Data:

Site Incident Category: Not reported
Non NPL Status: Not reported
Ownership Status: Private
Site Description:

Federal Facility: Not a Federal Facility

NPL Status: Currently on the Final NPL

1N 1981, TWO MAJOR DRINKING WATER PRODUCTION WELLS WERE FOUND TO BE CONTAMINATED BY ORGANIC COMPOUNDS. WELLS SHUT DOWN. OVER 10,000 PEOPLE ARE SERVED BY LAKEWOOD WATER DIST. COMMERCIAL LAUNDRY HAS BEEN IDENTIFIED AS A SOURCE. 1N 1981, TWO MAJOR DRINKING WATER PRODUCTION WELLS WERE FOUND TO BE CONTAMINATED BY ORGANIC COMPOUNDS. WELLS SHUT DOWN. OVER 10,000 PEOPLE ARE SERVED BY LAKEWOOD WATER DIST. COMMERCIAL LAUNDRY HAS BEEN IDENTIFIED AS A SOURCE.

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	08/01/1980
Assessment:	PRELIMINARY ASSESSMENT	Completed:	08/01/1982
Assessment:	HRS PACKAGE	Completed:	08/10/1982
Assessment:	PROPOSAL TO NPL	Completed:	12/30/1982
Assessment:	SITE INSPECTION	Completed:	03/01/1983
Assessment:	FINAL LISTING ON NPL	Completed:	09/08/1983
Assessment:	RI/FS WORKPLAN APPROVAL BY HQ	Completed:	04/04/1984
Assessment:	RECORD OF DECISION	Completed:	06/01/1984
Assessment:	INITIAL REMEDIAL MEASURE	Completed:	02/27/1985
Assessment:	RECORD OF DECISION	Completed:	09/30/1985
Assessment:	COMBINED RI/FS	Completed:	09/30/1985
Assessment:	TECHNICAL ASSISTANCE	Completed:	09/30/1985
Assessment:	MANAGEMENT ASSISTANCE	Completed:	09/30/1985
Assessment:	ROD Amendment	Completed:	11/14/1986
Assessment:	OPERATIONS AND MAINTENANCE	Completed:	01/31/1987
Assessment:	REMEDIAL ACTION	Completed:	03/20/1987
Assessment:	REMEDIAL DESIGN	Completed:	09/18/1987
Assessment:	NPL RP SEARCH	Completed:	12/13/1989
Assessment:	REMOVAL ASSESSMENT	Completed:	09/10/1990
Assessment:	REMOVAL ASSESSMENT	Completed:	07/19/1991
Assessment:	Explanation Of Significant Differences	Completed:	09/15/1992
Assessment:	FIVE YEAR REMEDY ASSESSMENT	Completed:	09/29/1992
Assessment:	REMEDIAL ACTION	Completed:	05/06/1993
Assessment:	REMOVAL ASSESSMENT	Completed:	10/05/1993
Assessment:	MANAGEMENT ASSISTANCE	Completed:	06/30/1996
Assessment:	NOTICE OF INTENT TO PARTIALLY DELETE	Completed:	09/27/1996
Assessment:	PARTIAL NPL DELETION	Completed:	11/27/1996
Assessment:	FIVE YEAR REMEDY ASSESSMENT	Completed:	09/24/1997
Assessment:	COMFORT/STATUS LETTER	Completed:	01/05/2000
Assessment:	FIVE YEAR REMEDY ASSESSMENT	Completed:	09/24/2002

CERCLIS Site Status:
Not reported

CERCLIS Alias Name(s):
LAKEWOOD WATER DISTRICT SITE
PONDER'S CORNER
PLAZA CLEANERS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

LAKEWOOD (Continued)

1000344885

LAKEWOOD SITE
LAKEWOOD SITE
LAKEWOOD

NPL:

EPA ID: WAD050075662
Region: 10
Federal: General
Final Date: 09/08/1983

NPL Contaminant:

NPL Status: Final
Substance Id: A030
Case Num: 540-59-0
Substance: DICHLOROETHENE, NOS
Pathway: NOT INDICATED
GW Scoring: Not reported
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U226
Case Num: 71-55-6
Substance: TRICHLOROETHANE, 1,1,1-
Pathway: NOT INDICATED
GW Scoring: Not reported
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: C321
Case Num: Not reported
Substance: TRICHLOROETHANE, NOS
Pathway: The Ground water migration route , or pathway.
GW Scoring: Toxicity
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U079
Case Num: 156-60-5
Substance: TRANS-DICHLOROETHYLENE, 1,2-
Pathway: The Ground water migration route , or pathway.
GW Scoring: Observed Release
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

LAKEWOOD (Continued)

1000344885

NPL Site:

CERCLIS Id: WAD050075662
Site City: Lakewood
Site State: WA
NPL Status: Final
Status Date: 09/08/83
Federal Site: Not reported
HRS Score: 42.49
GW Score: 73.08
SW Score: 7.97
Air Score: 0.00
Soil Score: 0.00
DC Score: 0.00
FE Score: 0.00

NPL Char:

NPL Status: Final
Category Description: DEPTH TO AQUIFER
Category Value: 25

NPL Status: Final
Category Description: DISTANCE TO THE NEAREST POPULATION
Category Value: 10

NPL Status: Final
Category Description: OBSERVED RELEASE-Ground Water
Category Value: Not reported

NPL Status: Final
Category Description: OBSERVED RELEASE-Surface Water
Category Value: Not reported

NPL Status: Final
Category Description: PERMIT-NPDES
Category Value: Not reported

NPL Status: Final
Category Description: PHYSICAL STATE-Liquid
Category Value: Not reported

NPL Status: Final
Category Description: PHYSICAL STATE-Solid
Category Value: Not reported

NPL Status: Final
Category Description: SITE ACTIVITY WASTE SOURCE-Ground Water Plume
Category Value: Not reported

NPL Status: Final
Category Description: SITE ACTIVITY WASTE SOURCE-Industry Laundromat
Category Value: Not reported

NPL Status: Final
Category Description: SURFACE WATER ADJACENT TO SITE-Lake
Category Value: Not reported

NPL Status: Final
Category Description: SURFACE WATER ADJACENT TO SITE-Stream
Category Value: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

LAKEWOOD (Continued)

1000344885

Substance Id: U210
Case Num: 79-34-5
Substance : TETRACHLOROETHENE
Pathway : The Ground water migration route , or pathway.
GW Scoring : Observed Release
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U228
Case Num: 79-01-6
Substance : TRICHLOROETHYLENE (TCE), 1,1,2-
Pathway : The Ground water migration route , or pathway.
GW Scoring : Observed Release
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: C321
Case Num: Not reported
Substance : TRICHLOROETHANE, NOS
Pathway : SW
GW Scoring : Not reported
SW Scoring : Toxicity
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U079
Case Num: 156-60-5
Substance : TRANS-DICHLOROETHYLENE, 1,2-
Pathway : SW
GW Scoring : Not reported
SW Scoring : Observed Release
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U228
Case Num: 79-01-6
Substance : TRICHLOROETHYLENE (TCE), 1,1,2-
Pathway : SW
GW Scoring : Not reported
SW Scoring : Observed Release
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

Map ID

Direction

Distance

Distance (ft.)

Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number

EPA ID Number

LAKEWOOD (Continued)

1000344885

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

RCRIS:

Owner: AUDRY LOTSPEICH

(360) 588-4084

EPA ID: WAD050075662

Contact: ANN WILLIAMSON

(206) 553-2739

Classification: N, Small Quantity Generator

Used Oil Recyc: Yes

TSD Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

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

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

1

SSE

< 1/8

45 ft.

Higher

RAY DUCOLON

11517 PACIFIC HY SW

TACOMA, WA 98499

UST

U003353392

N/A

UST:

Facility ID: 12057
Install Date: 12/31/1964 00:00:00
Capacity: 2,001 TO 4,999 GALLONS
Status: Operational
Tank Name: 1
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 12057
Install Date: 12/31/1964 00:00:00
Capacity: 2,001 TO 4,999 GALLONS
Status: Exempt
Tank Name: 2
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

A2

SW

< 1/8

604 ft.

Higher

ORIENTAL AUTO BODY

11618 PACIFIC HWY SW

LAKEWOOD, WA 98499

RCRIS-SQG

1004794617

FINDS

WAD988523569

Site 1 of 2 in cluster A

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

ORIENTAL AUTO BODY (Continued)

1004794617

RCRIS:

Owner: YONG KIL YI
(253) 582-1364
EPA ID: WAD988523569
Contact: YONG KIL YI
(253) 582-1364

Classification: N, Conditionally Exempt Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

A3
SW
1/8-1/4
674 ft.
Higher

BEST JAPANESE AUTO REPAIR
11626 PACIFIC HWY SW
TACOMA, WA 98499

Site 2 of 2 in cluster A

RCRIS-SQG 1001807015
FINDS WAD988522835

RCRIS:

Owner: BEST JAPANESE AUTO REPAIR
(360) 555-1212
EPA ID: WAD988522835
Contact: JEONG PAK
(253) 584-4552

Classification: N, Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

4
North
1/8-1/4
783 ft.
Higher

LAKEWOOD MASONRY SUPLLY
4610 113 TH SW
TACOMA, WA 98499

UST U003355916
N/A

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

LAKEWOOD (Continued)

1000344885

NPL Site:

CERCLIS Id: WAD050075662
Site City: Lakewood
Site State: WA
NPL Status: Final
Status Date: 09/08/83
Federal Site: Not reported
HRS Score: 42.49
GW Score: 73.08
SW Score: 7.97
Air Score: 0.00
Soil Score: 0.00
DC Score: 0.00
FE Score: 0.00

NPL Char:

NPL Status: Final
Category Description: DEPTH TO AQUIFER
Category Value: 25

NPL Status: Final
Category Description: DISTANCE TO THE NEAREST POPULATION
Category Value: 10

NPL Status: Final
Category Description: OBSERVED RELEASE-Ground Water
Category Value: Not reported

NPL Status: Final
Category Description: OBSERVED RELEASE-Surface Water
Category Value: Not reported

NPL Status: Final
Category Description: PERMIT-NPDES
Category Value: Not reported

NPL Status: Final
Category Description: PHYSICAL STATE-Liquid
Category Value: Not reported

NPL Status: Final
Category Description: PHYSICAL STATE-Solid
Category Value: Not reported

NPL Status: Final
Category Description: SITE ACTIVITY WASTE SOURCE-Ground Water Plume
Category Value: Not reported

NPL Status: Final
Category Description: SITE ACTIVITY WASTE SOURCE-Industry Laundromat
Category Value: Not reported

NPL Status: Final
Category Description: SURFACE WATER ADJACENT TO SITE-Lake
Category Value: Not reported

NPL Status: Final
Category Description: SURFACE WATER ADJACENT TO SITE-Stream
Category Value: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

LAKEWOOD (Continued)

1000344885

Substance Id: U210
Case Num: 79-34-5
Substance : TETRACHLOROETHENE
Pathway : The Ground water migration route , or pathway.
GW Scoring : Observed Release
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U228
Case Num: 79-01-6
Substance : TRICHLOROETHYLENE (TCE), 1,1,2-
Pathway : The Ground water migration route , or pathway.
GW Scoring : Observed Release
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: C321
Case Num: Not reported
Substance : TRICHLOROETHANE, NOS
Pathway : SW
GW Scoring : Not reported
SW Scoring : Toxicity
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U079
Case Num: 156-60-5
Substance : TRANS-DICHLOROETHYLENE, 1,2-
Pathway : SW
GW Scoring : Not reported
SW Scoring : Observed Release
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U228
Case Num: 79-01-6
Substance : TRICHLOROETHYLENE (TCE), 1,1,2-
Pathway : SW
GW Scoring : Not reported
SW Scoring : Observed Release
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

LAKEWOOD MASONRY SUPPLY (Continued)

U003355916

UST:

Facility ID: 97252
Install Date: 12/31/1964 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 1
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

5
West
1/8-1/4
1245 ft.
Higher

TYEE CLEANERS & LAUNDROMAT
4924 115TH ST CT SW
TACOMA, WA 98499

RCRIS-SQG 1000456057
FINDS WAD988477907

RCRIS:

Owner: SUSAN BAYS
(253) 588-8343
EPA ID: WAD988477907
Contact: GREGORY MCALPIN
(253) 588-8343

Classification: N, Conditionally Exempt Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

B6
SW
1/4-1/2
1473 ft.
Higher

U HAUL CO OF LAKEWOOD
11740 PACIFIC HWY S
TACOMA, WA 98499
Site 1 of 2 in cluster B

RCRIS-SQG 1000659814
FINDS WAD988494902

RCRIS:

Owner: AMERCO REAL ESTATE CO
(602) 263-6650
EPA ID: WAD988494902
Contact: ERNEST MARTIN
(360) 737-3923

Classification: N, Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

U HAUL CO OF LAKEWOOD (Continued)

1000659814

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

B7
SW
1/4-1/2
1509 ft.
Higher

NK'S MART
11747 PACIFIC HWY SW
LAKEWOOD, WA 98499

Site 2 of 2 in cluster B

UST:

Facility ID: 550951
Install Date: 9/8/2000 00:00:00
Capacity: Not reported
Status: Operational
Tank Name: 2
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 550951
Install Date: 9/8/2000 00:00:00
Capacity: Not reported
Status: Operational
Tank Name: 1
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

UST U003759195
N/A

C8
West
1/4-1/2
1601 ft.
Higher

LAKEVIEW LIGHT & POWER CO INC
11509 BRIDGEPORT WAY SW
TACOMA, WA 98499

Site 1 of 2 in cluster C

UST:

Facility ID: 100659
Install Date: 12/31/1964 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 2
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 100659
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 1
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

UST U003352427
N/A

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

LAKEVIEW LIGHT & POWER CO INC (Continued)

U003352427

Facility ID: 100659
Install Date: 7/10/1991 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Operational
Tank Name: 3
Substance: DIESEL
Compartment #: 1
Ecology Region: South Western

Facility ID: 100659
Install Date: 7/10/1991 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Operational
Tank Name: 4
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

D9
ENE
1/4-1/2
1627 ft.
Higher

WA DOT AREA 1 MAINT HQ
11211 41ST AVE SW
TACOMA, WA 98499

RCRIS-SQG 1000394616
FINDS WAD988467585
CA HAZNET

Site 1 of 4 in cluster D

RCRIS:

Owner: WA DOT
(360) 705-7812
EPA ID: WAD988467585
Contact: DOUG PIERCE
(360) 705-7812

Classification: N, Conditionally Exempt Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: WAD988467585
Tepaid: CAD050806850
Gen County: 99
Tsd County: Los Angeles
Tons: .2000
Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: STATE OF WASHINGTON
Telephone: (206) 357-2653
Mailing Address: 5720 CAPITOL BLVD
OLYMPIA, WA 98504 - 7440
County: 99

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

WA DOT AREA 1 MAINT HQ (Continued)

1000394616

Gepaid: WAD988467585
Tepaid: CAD050806850
Gen County: 99
Tsd County: Los Angeles
Tons: .4000
Category: Drilling mud
Disposal Method: Treatment, Tank
Contact: STATE OF WASHINGTON
Telephone: (206) 357-2653
Mailing Address: 5720 CAPITOL BLVD
OLYMPIA, WA 98504 - 7440
County 99

Gepaid: WAD988467585
Tepaid: CAD050806850
Gen County: 99
Tsd County: Los Angeles
Tons: .0150
Category:
Disposal Method: Treatment, Tank
Contact: STATE OF WASHINGTON
Telephone: (206) 357-2653
Mailing Address: 5720 CAPITOL BLVD
OLYMPIA, WA 98504 - 7440
County 99

Gepaid: WAD988467585
Tepaid: CAD050806850
Gen County: 99
Tsd County: Los Angeles
Tons: .2500
Category: Alkaline solution without metals (pH > 12.5)
Disposal Method: Treatment, Tank
Contact: STATE OF WASHINGTON
Telephone: (206) 357-2653
Mailing Address: 5720 CAPITOL BLVD
OLYMPIA, WA 98504 - 7440
County 99

Gepaid: WAD988467585
Tepaid: CAD050806850
Gen County: 99
Tsd County: Los Angeles
Tons: 1.9000
Category: Other organic solids
Disposal Method: Not reported
Contact: STATE OF WASHINGTON
Telephone: (206) 357-2653
Mailing Address: 5720 CAPITOL BLVD
OLYMPIA, WA 98504 - 7440
County 99

The CA HAZNET database contains 6 additional records for this site.
Please contact your EDR Account Executive for more information.

C10 LAKEVIEW LIGHT & POWER
West 11509 BRIDGEPORT WAY SW
1/4-1/2 TACOMA, WA 98499
1629 ft.
Higher Site 2 of 2 in cluster C

PADS 1001969477
RCRIS-SQG WAD061678728
FINDS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

LAKEVIEW LIGHT & POWER (Continued)

1001969477

RCRIS:

Owner: LAKEVIEW LIGHT & POWER
(253) 584-6060
EPA ID: WAD061678728
Contact: MARK HADMAN
(253) 584-6060

Classification: N, Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
National Compliance Database (NCDB)
Resource Conservation and Recovery Act Information system (RCRAINFO)

D11
ENE
1/4-1/2
1634 ft.
Higher

WDOT - LAKEWOOD FACILITY
11211 41ST AVE. SW
TACOMA, WA 98499

WA ICR S104484611
N/A

Site 2 of 4 in cluster D

WA ICR:

Date Ecology Received Report: 10/09/1991
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 92-09
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 06/19/1997
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 95-02
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

D12
ENE
1/4-1/2
1634 ft.
Higher

WA DOT LAKEVIEW MAINTENANCE FACILITY
11211 41ST AVE SW
LAKEWOOD, WA 98499

CSCSL S102258407
N/A

Site 3 of 4 in cluster D

SHWS:

Facility ID: 1343
MTBE Code: Not reported
Responsible Unit: Southwest Region

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

WA DOT LAKEVIEW MAINTENANCE FACILITY (Continued)

S102258407

Latitude: 47.00 9.00 19.00

Longitude: 122.00 29.00 32.00

Ecology Site Status relative to the MTCA cleanup process:

Remedial Action Conducted, residual contamination left on site; on-going institutional controls required

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Ground Water

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Not reported

Horizontal Collection Method:

GPS (Code/Differential)

EPA Priority Pollutants - Metals and Cyanide:

Not reported

Metals - Other non-priority pollutant medals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Treated, removed, or contained

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Not reported

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Not reported

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Not reported

Conventional Contaminants, Inorganic:

Not reported

Facility ID: 1343

MTBE Code: Not reported

Responsible Unit: Southwest Region

Latitude: 47.00 9.00 19.00

Longitude: 122.00 29.00 32.00

Ecology Site Status relative to the MTCA cleanup process:

Remedial Action Conducted, residual contamination left on site; on-going institutional controls required

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Soil

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Not reported

Horizontal Collection Method:

GPS (Code/Differential)

EPA Priority Pollutants - Metals and Cyanide:

Not reported

Metals - Other non-priority pollutant medals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Treated, removed, or contained

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Not reported

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Not reported

Reactive Wastes:

Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

WA DOT LAKEVIEW MAINTENANCE FACILITY (Continued)

S102258407

Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported

D13
ENE
1/4-1/2
1634 ft.
Higher

TACOMA AREA MAINTENANCE FAC. SITE
11211 - 41ST SW
TACOMA, WA 98499

LUST U003353414
UST N/A

Site 4 of 4 in cluster D

LUST:

Facility ID:	12153	Ecology Region:	SWRO
Release ID:	407979	Release Date:	3/4/1997 00:00:00
Release Status:	Cleanup Started	Status Date:	3/4/1997 00:00:00
Alternate Name:	WDOT-LAKEVIEW MAINTENANCE FACILITY	Latitude:	47.15532 / 122.49245
Affected Media:	Soil		

Facility ID:	12153	Ecology Region:	SWRO
Release ID:	407979	Release Date:	3/4/1997 00:00:00
Release Status:	Reported Cleaned Up	Status Date:	6/19/1997 00:00:00
Alternate Name:	WDOT-LAKEVIEW MAINTENANCE FACILITY	Latitude:	47.15532 / 122.49245
Affected Media:	Soil		

UST:

Facility ID: 12153
Install Date: 1/1/1984 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Removed
Tank Name: 66C02005
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 12153
Install Date: 1/1/1984 00:00:00
Capacity: 5,000 TO 9,999 GALLONS
Status: Removed
Tank Name: 66C02004
Substance: DIESEL
Compartment #: 1
Ecology Region: South Western

Facility ID: 12153
Install Date: 12/31/1964 00:00:00
Capacity: 111 TO 1,000 GALLONS
Status: Removed
Tank Name: 66C04002
Substance: USED OIL/WASTE OIL
Compartment #: 1
Ecology Region: South Western

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

TACOMA AREA MAINTENANCE FAC. SITE (Continued)

U003353414

Facility ID: 12153
Install Date: 4/6/1998 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: 66C13009
Substance: DIESEL
Compartment #: 1
Ecology Region: South Western

Facility ID: 12153
Install Date: 4/6/1998 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: 66C13008
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

14
WSW
1/4-1/2
1644 ft.
Higher

GARY HENRICKSEN DBA LAKEWOOD CAR WASH
11621 BRIDGEPORT WAY S.W.
TACOMA, WA 98499

UST U003353262
N/A

UST:

Facility ID: 1154
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 1
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 1154
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 2
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 1154
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 3
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

GARY HENRICKSEN DBA LAKEWOOD CAR WASH (Continued)

U003353262

Facility ID: 1154
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 4
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 1154
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 5
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

E15
WNW
1/4-1/2
1691 ft.
Higher

ST CLARE HOSPITAL
11315 BRIDGEPORT WAY SW
TACOMA, WA 98499

RCRIS-SQG 1000878775
FINDS WAD988521001

Site 1 of 2 in cluster E

RCRIS:

Owner: FRANCISCAN HEALTH SYSTEM
(253) 552-4102
EPA ID: WAD988521001
Contact: ART RICKETTS
(253) 581-6963

Classification: N, Small Quantity Generator
Used Oil Recyc: Yes
TSD Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

E16
WNW
1/4-1/2
1691 ft.
Higher

ST. CLARE HOSPITAL
11315 BRIDGEPORT WAY SW
LAKEWOOD, WA 98499

UST U003356025
N/A

Site 2 of 2 in cluster E

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

ST. CLARE HOSPITAL (Continued)

U003356025

UST:

Facility ID: 97723
Install Date: 9/12/1988 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: 1
Substance: DIESEL
Compartment #: 1
Ecology Region: North Western

17
WSW
1/4-1/2
1722 ft.
Higher

KENTUCKY FRIED CHICKEN
11717 BRIDGE PORT WAY SW
TACOMA, WA 98499

UST U003352739
N/A

UST:

Facility ID: 101806
Install Date: 1/1/1972 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 1
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

18
NW
1/4-1/2
1989 ft.
Higher

TOP AUTO, INC.
11111 BRIDGEPORT WAY S.W.
TACOMA, WA 98499

LUST U003354590
UST N/A

LUST:

Facility ID: 4610
Release ID: 4259
Release Status: Reported Cleaned Up
Alternate Name: TOP AUTO, INC
Affected Media: Soil

Ecology Region: SWRO
Release Date: 10/30/1990 00:00:00
Status Date: 1/1/1991 00:00:00
Lat/Lon: 47.15799 / 122.50426

Facility ID: 4610
Release ID: 4259
Release Status: Cleanup Started
Alternate Name: TOP AUTO, INC
Affected Media: Soil

Ecology Region: SWRO
Release Date: 10/30/1990 00:00:00
Status Date: 10/30/1990 00:00:00
Lat/Lon: 47.15799 / 122.50426

UST:

Facility ID: 4610
Install Date: 12/31/1964 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 1
Substance: USED OIL/WASTE OIL
Compartment #: 1
Ecology Region: South Western

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

F19 FLOYD SINGLETARY
SW 11910 PACIFIC HWY SOUTH WEST
1/4-1/2 TACOMA, WA 98499
2194 ft.
Higher Site 1 of 2 in cluster F

LUST U003354533
UST N/A

LUST:

Facility ID: 4453
Release ID: 2948
Release Status: Cleanup Started
Alternate Name: TEXACO #63-232-0398
Affected Media: Soil

Ecology Region: SWRO
Release Date: 12/11/1991 00:00:00
Status Date: 12/11/1991 00:00:00
Lat/Lon: 47.15041 / 122.50279

Facility ID: 4453
Release ID: 2948
Release Status: Reported Cleaned Up
Alternate Name: TEXACO #63-232-0398
Affected Media: Soil

Ecology Region: SWRO
Release Date: 12/11/1991 00:00:00
Status Date: 2/4/1992 00:00:00
Lat/Lon: 47.15041 / 122.50279

UST:

Facility ID: 4453
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 4-8,000
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 4453
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 5-1,000
Substance: HEATING FUEL
Compartment #: 1
Ecology Region: South Western

Facility ID: 4453
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 1-12,000
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 4453
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 2-10,000
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

FLOYD SINGLETARY (Continued)

U003354533

Facility ID: 4453
Install Date: 12/31/1964 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 6-550
Substance: USED OIL/WASTE OIL
Compartment #: 1
Ecology Region: South Western

Facility ID: 4453
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 3-10,000
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

F20 TEXACO #398
SW 11910 PACIFIC HIGHWAY SW
1/4-1/2 TACOMA, WA 98444
2194 ft.
Higher Site 2 of 2 in cluster F

WA ICR S104487717
N/A

WA ICR:
Date Ecology Received Report: 02/13/1992
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 92-18
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

G21 TOSCO CORPORATION SITE #253588-30522
SW 11919 PACIFIC HWY SW
1/4-1/2 TACOMA, WA 98499
2586 ft.
Higher Site 1 of 2 in cluster G

LUST U003355610
UST N/A

LUST:
Facility ID: 8408 Ecology Region: SWRO
Release ID: 367088 Release Date: 5/9/1996 00:00:00
Release Status: Cleanup Started Status Date: 5/9/1996 00:00:00
Alternate Name: UNOCAL 3588 Lat/Lon: 47.14945 / 122.50386
Affected Media: Ground Water

Facility ID: 8408 Ecology Region: SWRO
Release ID: 367088 Release Date: 5/9/1996 00:00:00
Release Status: Monitoring Status Date: 2/2/2001 00:00:00
Alternate Name: UNOCAL 3588 Lat/Lon: 47.14945 / 122.50386
Affected Media: Ground Water

Facility ID: 8408 Ecology Region: SWRO
Release ID: 367088 Release Date: 5/9/1996 00:00:00

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

TOSCO CORPORATION SITE #253588-30522 (Continued)

U003355610

Release Status: Monitoring Status Date: 2/2/2001 00:00:00
Alternate Name: UNOCAL 3588 Lat/Lon 47.14945 / 122.50386
Affected Media: Soil

Facility ID: 8408 Ecology Region: SWRO
Release ID: 367088 Release Date: 5/9/1996 00:00:00
Release Status: Cleanup Started Status Date: 5/9/1996 00:00:00
Alternate Name: UNOCAL 3588 Lat/Lon 47.14945 / 122.50386
Affected Media: Soil

UST:

Facility ID: 8408
Install Date: 1/1/1975 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 4
Substance: USED OIL/WASTE OIL
Compartment #: 1
Ecology Region: South Western

Facility ID: 8408
Install Date: 5/20/1996 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: J-377767
Substance: Not reported
Compartment #: Not reported
Ecology Region: South Western

Facility ID: 8408
Install Date: 5/20/1996 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: J-377782
Substance: Not reported
Compartment #: Not reported
Ecology Region: South Western

Facility ID: 8408
Install Date: 5/20/1996 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: J-377784
Substance: Not reported
Compartment #: Not reported
Ecology Region: South Western

Facility ID: 8408
Install Date: 1/1/1980 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Closure in Process
Tank Name: 3
Substance: DIESEL
Compartment #: 1
Ecology Region: South Western

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

TOSCO CORPORATION SITE #253588-30522 (Continued)

U003355610

Facility ID: 8408
Install Date: 1/1/1975 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Closure in Process
Tank Name: 1
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 8408
Install Date: 1/1/1975 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Closure in Process
Tank Name: 2
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

G22 UNOCAL/TOSCO #3588
SW 11919 PACIFIC HWY SW
1/4-1/2 TACOMA, WA 98499
2586 ft.
Higher Site 2 of 2 in cluster G

WA ICR S103503796
N/A

WA ICR:
Date Ecology Received Report: 12/11/1997
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-01
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 06/05/1998
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-04
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 07/01/1996
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-32
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

UNOCAL/TOSCO #3588 (Continued)

S103503796

Date Ecology Received Report: 07/09/1998
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-06
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 01/08/1999
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-11
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 11/09/1998
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-14
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 08/18/1999
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-17
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 09/26/2000
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-29
County Code: 27.00000
Contact: Not reported
Report Title: Ground Water Monitoring Report

Date Ecology Received Report: 01/28/2001

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

UNOCAL/TOSCO #3588 (Continued)

S103503796

Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-33
County Code: 27.00000
Contact: Not reported
Report Title: Ground Water Monitoring Report

Date Ecology Received Report: 11/30/1999
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-21
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 06/12/2000
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-26
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 06/19/2001
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-37
County Code: 27.00000
Contact: Not reported
Report Title: Ground Water Quarterly Monitoring

Date Ecology Received Report: 08/06/2001
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-39
County Code: 27.00000
Contact: Not reported
Report Title: Quarterly Ground Water Sampling - 2001

Date Ecology Received Report: 11/13/2001
Contaminants Found at Site: Not reported
Media Contaminated: Groundwater, Soil

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

UNOCAL/TOSCO #3588 (Continued)

S103503796

Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-42
County Code: 27.00000
Contact: Not reported
Report Title: Third Quarter 2001 Ground Water Sampling

Date Ecology Received Report: 03/04/2002
Contaminants Found at Site: Not reported
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-46
County Code: 27.00000
Contact: Not reported
Report Title: Ground Water Monitoring Report

Date Ecology Received Report: 06/06/2002
Contaminants Found at Site: Not reported
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-49
County Code: 27.00000
Contact: Not reported
Report Title: First Quarter 2002 Ground Water Monitoring

H23 BP SERVICE STATION 11260
NW 10801 BRIDGEPORT WAY
1/2-1 TACOMA, WA 98499
2807 ft.
Higher Site 1 of 3 in cluster H

VCP 1004990767
N/A

VCP:
Facility ID : 99755215
Project Number : No Further Action
Project Decision : No Further Action
Decision Date: 1/16/1998 00:00:00

H24 BP #11260
NW 10801 BRIDGEPORT WAY
1/2-1 TACOMA, WA 98499
2807 ft.
Higher Site 2 of 3 in cluster H

WA ICR S102512938
N/A

WA ICR:
Date Ecology Received Report: 06/06/1997
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-02
County Code: 27.00000
Contact: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

BP #11260 (Continued)

S102512938

Report Title: Not reported
Date Ecology Received Report: 10/24/1997
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 95-11
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 04/15/1996
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-29
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 08/12/1996
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-35
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 10/09/1996
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-39
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 01/27/1997
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-47
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

BP #11260 (Continued)

S102512938

Date Ecology Received Report: 06/14/1993
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 93-01
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

H25
NW
1/2-1
3010 ft.
Higher

RENTAL MART
10712 BRIDGEPORT WAY SW
TACOMA, WA 98499

Site 3 of 3 in cluster H

RCRIS-SQG 1000892003
FINDS WA0000275487
WA ICR
UST
CSCSL NFA
VCP

RCRIS:

Owner: RENTAL MARTS
(206) 587-3680
EPA ID: WA0000275487
Contact: JANICE DIMICK
(206) 587-3680

Classification: N, Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

WA NFA:

Facility/Site Id : 77888432
Ecology Status : Independent Remedial Action
Independent Status Code : Final Independent RA Report received
WARM Bin Number : Not reported
NFA Code : NFA after Assesment IRAP or VCP
NFA Date : 5/18/1999 00:00:00

WA ICR:

Date Ecology Received Report: 04/08/1998
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 98-04
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

VCP:

Facility ID : 77888432
Project Number : No Further Action

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

RENTAL MART (Continued)

1000892003

Project Decision : No Further Action
Decision Date: 5/18/1999 00:00:00

UST:

Facility ID: 4276
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Closed in Place
Tank Name: OLD 2
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 4276
Install Date: 12/31/1964 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Closed in Place
Tank Name: OLD 4
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 4276
Install Date: 10/20/2000 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: 1
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 4276
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Closed in Place
Tank Name: OLD 1
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 4276
Install Date: 10/20/2000 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: 2
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

RENTAL MART (Continued)

1000892003

Facility ID: 4276
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: OLD 3
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 4276
Install Date: 12/31/1964 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: OLD 5
Substance: USED OIL/WASTE OIL
Compartment #: 1
Ecology Region: South Western

I26
SSW
1/2-1
3148 ft.
Higher

EXXON STATION 7142
12315 BRIDGEPORT WAY SW
TACOMA, WA 98499

Site 1 of 5 in cluster I

RCRIS-SQG 1000838120
FINDS WAD988506135
WA ICR
CSCSL NFA

RCRIS:

Owner: BP EXPLORATION OIL INC
(360) 555-1212
EPA ID: WAD988506135
Contact: C CRUTCHFIELD
(713) 656-7761

Classification: N, Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

WA NFA:

Facility/Site Id : 1371
Ecology Status : Independent Remedial Action
Independent Status Code : Final Independent RA Report received
WARM Bin Number : Not reported
NFA Code : NFA after Assesment IRAP or VCP
NFA Date : 5/17/1995 00:00:00

WA ICR:

Date Ecology Received Report: 09/14/1994
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 93-33
County Code: 27.00000

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number

EPA ID Number

EXXON STATION 7142 (Continued)

1000838120

Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 04/09/1993
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 92-48
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 10/20/1994
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Storm drain
Region: South Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 93-38
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

127
SSW
1/2-1
3178 ft.
Higher

WA DOT BRIDGEPORT WAY INTERCHANGE
12320 BRIDGEPORT WAY SW
TACOMA, WA 98499

CSCSL S105613424
N/A

Site 2 of 5 in cluster I

SHWS:

Facility ID: 1358
MTBE Code: Not reported
Responsible Unit: Southwest Region
Latitude: 47.00 8.00 44.00
Longitude: 122.00 30.00 17.00
Ecology Site Status relative to the MTCA cleanup process:
Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:
Final Independent Remedial Action Report received
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Affected Media: Soil
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Suspected to be present
Horizontal Collection Method: GPS (Code/Differential)
EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals: Confirmed above MTCA cleanup levels
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Confirmed above MTCA cleanup levels
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Confirmed above MTCA cleanup levels
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Confirmed above MTCA cleanup levels
Reactive Wastes: Not reported
Corrosive Wastes: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

WA DOT BRIDGEPORT WAY INTERCHANGE (Continued)

S105613424

Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

I28
SSW
1/2-1
3178 ft.
Higher

WA DOT BRIDGEPORT WAY INTERCHANGE
12320 BRIDGEPORT WAY SW
TACOMA, WA 98499

CSCSL S105613423
N/A

Site 3 of 5 in cluster I

SHWS:

Facility ID: 1358
MTBE Code: Not reported
Responsible Unit: Southwest Region
Latitude: 47.00 8.00 44.00
Longitude: 122.00 30.00 17.00

Ecology Site Status relative to the MTCA cleanup process:

Independent Remedial Action

Independent Site Status - those sites undergoing an independent cleanup:

Final Independent Remedial Action Report received

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Ground Water

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Suspected to be present

Horizontal Collection Method:

GPS (Code/Differential)

EPA Priority Pollutants - Metals and Cyanide:

Confirmed above MTCA cleanup levels

Metals - Other non-priority pollutant metals:

Confirmed above MTCA cleanup levels

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Confirmed above MTCA cleanup levels

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Confirmed above MTCA cleanup levels

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Confirmed above MTCA cleanup levels

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Not reported

Conventional Contaminants, Inorganic:

Not reported

I29
SSW
1/2-1
3178 ft.
Higher

ICA INCORPORATED
12320 BRIDGEPORT WAY SW
TACOMA, WA 98499

LUST U003355530
UST N/A

Site 4 of 5 in cluster I

LUST:

Facility ID: 8097
Release ID: 382845
Release Status: Awaiting Cleanup
Alternate Name: ICA INCORPORATED
Affected Media: Ground Water

Ecology Region: SWRO
Release Date: 4/12/1996 00:00:00
Status Date: 7/8/1998 00:00:00
Lat/Lon: 47.14561 / 122.50478

Facility ID: 8097

Ecology Region: SWRO

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

ICA INCORPORATED (Continued)

U003355530

Release ID: 382845 Release Date: 4/12/1996 00:00:00
Release Status: Cleanup Started Status Date: 9/13/1996 00:00:00
Alternate Name: ICA INCORPORATED Lat/Lon: 47.14561 / 122.50478
Affected Media: Ground Water

Facility ID: 8097 Ecology Region: SWRO
Release ID: 382845 Release Date: 4/12/1996 00:00:00
Release Status: Awaiting Cleanup Status Date: 7/8/1998 00:00:00
Alternate Name: ICA INCORPORATED Lat/Lon: 47.14561 / 122.50478
Affected Media: Soil

Facility ID: 8097 Ecology Region: SWRO
Release ID: 382845 Release Date: 4/12/1996 00:00:00
Release Status: Cleanup Started Status Date: 9/13/1996 00:00:00
Alternate Name: ICA INCORPORATED Lat/Lon: 47.14561 / 122.50478
Affected Media: Soil

UST:

Facility ID: 8097
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 1
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 8097
Install Date: 12/31/1964 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 5
Substance: USED OIL/WASTE OIL
Compartment #: 1
Ecology Region: South Western

Facility ID: 8097
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 2
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 8097
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 4
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

ICA INCORPORATED (Continued)

U003355530

Facility ID: 8097
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 3
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

I30
SSW
1/2-1
3178 ft.
Higher

ICA, INCORPORATED
12320 BRIDGEPORT WAY SW
TACOMA, WA 98499

WA ICR S103512201
N/A

Site 5 of 5 in cluster I

WA ICR:

Date Ecology Received Report: 04/12/1996
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-35
County Code: 27.00000
Contact: Not reported
Report Title: Not reported

31
SSE
1/2-1
5071 ft.
Higher

USAFB MCCHORD
MCCHORD AIR FORCE BASE
MCCHORD AFB, WA 98438

PADS 1000243881
CERCLIS WA8570024200
FINDS
RCRIS-LQG
CORRACTS
Delisted NPL
ROD

CERCLIS Classification Data:

Site Incident Category: Not reported Federal Facility: Federal Facility
Non NPL Status: Not reported
Ownership Status: Federally Owned NPL Status: Deleted from the Final NPL
Site Description: HEAVY METALS AND ORGANIC CHEMICALS SUCH AS CHLOROFORM METHY-LENE
CHLORIDE AND BENZENE, HAVE BEEN DETECTED IN SURFACE
DRAINAGE THROUGH CLOVER CREEK. MCCHORD HAS BEEN
INVESTIGATING THE SITE. HEAVY METALS AND ORGANIC CHEMICALS SUCH AS
CHLOROFORM METHY-LENE CHLORIDE AND BENZENE, HAVE BEEN DETECTED
IN SURFACE DRAINAGE THROUGH CLOVER CREEK. MCCHORD HAS
BEEN INVESTIGATING THE SITE.

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	06/01/1982
Assessment:	SITE INSPECTION	Completed:	09/04/1984
Assessment:	PRELIMINARY ASSESSMENT	Completed:	09/04/1984
Assessment:	HRS PACKAGE	Completed:	09/04/1984
Assessment:	PROPOSAL TO NPL	Completed:	10/15/1984
Assessment:	FINAL LISTING ON NPL	Completed:	07/22/1987
Assessment:	FEDERAL INTERAGENCY AGREEMENT	Completed:	10/23/1989
Assessment:	IAG NEGOTIATIONS	Completed:	10/23/1989
Assessment:	RECORD OF DECISION	Completed:	09/29/1992

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

USAFB MCCHORD (Continued)

1000243881

Assessment:	FF RI/FS	Completed:	09/29/1992
Assessment:	ADMINISTRATIVE RECORDS	Completed:	05/29/1993
Assessment:	FF RD	Completed:	12/23/1993
Assessment:	Explanation Of Significant Differences	Completed:	07/19/1994
Assessment:	FF RA	Completed:	06/22/1995
Assessment:	DELETION FROM NPL	Completed:	09/26/1996
Assessment:	FIVE YEAR REMEDY ASSESSMENT	Completed:	09/30/1999

CERCLIS Site Status:

Not reported

CERCLIS Alias Name(s):

USAF - MCCHORD AIR FORCE BASE
MCCHORD WASH RACK AREA
MCCHORD AFB (WASH RACK/TREATMENT)
MCCHORD AIR FORCE BASE (WASH RACK/TREAT)
USAF MCCHORD AIR FORCE BASE (WASH RACK/TREAT)
USAF MCCHORD AIR FORCE BASE (WASH RACK/TREAT)
MCCHORD AIR FORCE BASE (WASH RACK/TREAT)
MCCHORD AIR FORCE BASE (WASH RACK/TREATMENT AREA)

CORRECTS Data:

EPA Id: WA8570024200
Region: 10
State: WA
Area Name: ENTIRE FACILITY
Original Scheduled Date: 9/15/1992
New Scheduled Date: Not reported
Actual Date: 11/2/1992
Corrective Action: CA050 - RFA Completed

EPA Id: WA8570024200
Region: 10
State: WA
Area Name: ENTIRE FACILITY
Original Scheduled Date: Not reported
New Scheduled Date: Not reported
Actual Date: 11/2/1992
Corrective Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary

EPA Id: WA8570024200
Region: 10
State: WA
Area Name: ENTIRE FACILITY
Original Scheduled Date: Not reported
New Scheduled Date: Not reported
Actual Date: 1/18/1995
Corrective Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority

DELISTED NPL:

EPA ID: WA8570024200
Region: 10
Federal: Federal
Deleted Date: 09/26/1996

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

USAFB MCCHORD (Continued)

1000243881

RCRIS Corrective Action Summary:

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date: 01/18/1995
Event: RFA Completed
Event Date: 11/02/1992
Event: RFA Determination Of Need For An RFI, RFI is Necessary;
Event Date: 11/02/1992

RCRIS:

Owner: USAF
(253) 984-2621
EPA ID: WA8570024200
Contact: MICHAEL GRENKO
(253) 982-3913

Rank Status: 3
Rank Date: 10/01/1991
Classification: N, Large Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1999

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D001	23123.00	D002	1442.00
D003	75.00	D005	1701.00
D006	1305144.00	D007	1322908.00
D008	1322047.00	D009	46.00
D010	49077.00	D011	11315.00
D013	3.00	D018	13573.00
D035	7973.00	F003	3464.00
F005	4891.00	P002	23.00
U129	3.00	U154	46.00
U238	10.00		

Violation Status: Violations exist

Regulation Violated: -200(1)(d)
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 06/22/1992
Actual Date Achieved Compliance: 07/22/1992
Regulation Violated: -640(2)
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 06/22/1992
Actual Date Achieved Compliance: 07/04/1992
Regulation Violated: -630
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 06/22/1992
Actual Date Achieved Compliance: 06/22/1992
Regulation Violated: -200(1)(d)
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 06/22/1992
Actual Date Achieved Compliance: 06/22/1992
Regulation Violated: -630(6)

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

USAFB MCCHORD (Continued)

1000243881

Area of Violation:	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	06/22/1992
Actual Date Achieved Compliance:	06/22/1992
Regulation Violated:	-200(1)(C)
Area of Violation:	TSD-GENERAL STANDARDS
Date Violation Determined:	06/24/1991
Actual Date Achieved Compliance:	09/07/1991
Enforcement Action:	INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	05/04/1984
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/24/1991
Penalty Type:	Not reported
Regulation Violated:	-200(1)(D)
Area of Violation:	TSD-GENERAL STANDARDS
Date Violation Determined:	06/24/1991
Actual Date Achieved Compliance:	07/04/1991
Enforcement Action:	INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	05/04/1984
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/24/1991
Penalty Type:	Not reported
Regulation Violated:	-300
Area of Violation:	TSD-GENERAL STANDARDS
Date Violation Determined:	06/24/1991
Actual Date Achieved Compliance:	09/24/1991
Enforcement Action:	INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	05/04/1984
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/24/1991
Penalty Type:	Not reported
Regulation Violated:	-630(5)(A)
Area of Violation:	TSD-GENERAL STANDARDS
Date Violation Determined:	06/24/1991
Actual Date Achieved Compliance:	07/04/1991
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/28/1985
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/24/1991
Penalty Type:	Not reported
Regulation Violated:	-630(5)(C)
Area of Violation:	TSD-GENERAL STANDARDS
Date Violation Determined:	06/24/1991
Actual Date Achieved Compliance:	08/07/1991
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/24/1991
Penalty Type:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

USAFB MCCHORD (Continued)

1000243881

Regulation Violated: -640(2)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 06/24/1991
Actual Date Achieved Compliance: 07/04/1991
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/24/1991
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/12/1990
Actual Date Achieved Compliance: 04/12/1990

There are 12 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19920722
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19920704
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19920622
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19920622
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19920622
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19910907
	TSD-GENERAL STANDARDS	19910704
	TSD-GENERAL STANDARDS	19910924
	TSD-GENERAL STANDARDS	19910704
	TSD-GENERAL STANDARDS	19910807
	TSD-GENERAL STANDARDS	19910704
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19900412
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19910704
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19910704
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19910907
	TSD-GENERAL STANDARDS	19910704
	TSD-GENERAL STANDARDS	19910924

FINDS:

Other Pertinent Environmental Activity Identified at Site:

AIRS Facility System (AIRS/AFS)
Biennial Reporting System (BRS)
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)
Facility Registry System (FRS)
National Compliance Database (NCDB)
National Toxics Inventory (NTI)
Permit Compliance System (PCS)
Resource Conservation and Recovery Act Information system (RCRAINFO)
Toxic Chemical Release Inventory System (TRIS)

32
NE
> 1
5662 ft.
Higher

TEXACO STAR MART #63-232-0042
10117 S TACOMA WAY SW
TACOMA, WA 98499

CSCSL U003354529
LUST N/A
UST
VCP

SHWS:

Facility ID: 44464196
MTBE Code: Not reported
Responsible Unit: Southwest Region
Latitude: 47.00 9.00 54.00
Longitude: 122.00 28.00 59.00

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

TEXACO STAR MART #63-232-0042 (Continued)

U003354529

Ecology Site Status relative to the MTCA cleanup process:

Independent Remedial Action

Independent Site Status - those sites undergoing an independent cleanup:

Final Independent Remedial Action Report received

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Soil

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Not reported

Horizontal Collection Method:

GPS (Code/Differential)

EPA Priority Pollutants - Metals and Cyanide:

Not reported

Metals - Other non-priority pollutant metals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Confirmed above MTCA cleanup levels

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Not reported

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Not reported

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Not reported

Conventional Contaminants, Inorganic:

Not reported

LUST:

Facility ID: 4442

Ecology Region: SWRO

Release ID: 3699

Release Date: 7/24/1992 00:00:00

Release Status: Reported Cleaned Up

Status Date: 2/28/2000 00:00:00

Alternate Name: TEXACO 63-232-0042

Lat/Lon 47.16511 / 122.48332

Affected Media: Soil

Facility ID: 4442

Ecology Region: SWRO

Release ID: 3699

Release Date: 7/24/1992 00:00:00

Release Status: Cleanup Started

Status Date: 9/22/1992 00:00:00

Alternate Name: TEXACO 63-232-0042

Lat/Lon 47.16511 / 122.48332

Affected Media: Soil

VCP:

Facility ID : 44464196

Project Number : Not reported

Project Decision : Not reported

Decision Date: Not reported

Facility ID : 44464196

Project Number : Not reported

Project Decision : Not reported

Decision Date: Not reported

Map ID

Direction

Distance

Distance (ft.)

Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number

EPA ID Number

TEXACO STAR MART #63-232-0042 (Continued)

U003354529

UST:

Facility ID: 4442
Install Date: 1/1/1984 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Removed
Tank Name: 4
Substance: DIESEL
Compartment #: 1
Ecology Region: South Western

Facility ID: 4442
Install Date: 1/1/1984 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Removed
Tank Name: 2
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 4442
Install Date: 1/1/1984 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Removed
Tank Name: 1
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 4442
Install Date: 1/1/1984 00:00:00
Capacity: 10,000 TO 19,999 GALLONS
Status: Removed
Tank Name: 3
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

J33
ESE
> 1
5734 ft.
Higher

USAF MAFB AMERICAN LK GDN
62ABG DEEV
MCCHORD AFB, WA 98438

CSCSL S100562881
N/A

Site 1 of 6 in cluster J

SHWS:

Facility ID: 239
MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 7.00 59.34
Longitude: 122.00 31.00 4.44

Ecology Site Status relative to the MTCA cleanup process:

Construction Completed, Operation & Maintenance Underway

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Ground Water

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

USAF MAFB AMERICAN LK GDN (Continued)

S100562881

Halogenated Organic Compounds:	Confirmed above MTCA cleanup levels
Horizontal Collection Method:	Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide:	Not reported
Metals - Other non-priority pollutant metals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Not reported
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Confirmed above MTCA cleanup levels
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported

Facility ID: 239

MTBE Code: Not reported

Responsible Unit: Headquarters Site Cleanup Section

Latitude: 47.00 7.00 59.34

Longitude: 122.00 31.00 4.44

Ecology Site Status relative to the MTCA cleanup process:

Construction Completed, Operation & Maintenance Underway

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Surface Water

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Confirmed above MTCA cleanup levels

Horizontal Collection Method:

Hand measured-paper map (map interpolation)

EPA Priority Pollutants - Metals and Cyanide:

Not reported

Metals - Other non-priority pollutant metals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Not reported

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Confirmed above MTCA cleanup levels

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Not reported

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Not reported

Conventional Contaminants, Inorganic:

Not reported

Facility ID: 239

MTBE Code: Not reported

Responsible Unit: Headquarters Site Cleanup Section

Latitude: 47.00 7.00 59.34

Longitude: 122.00 31.00 4.44

Ecology Site Status relative to the MTCA cleanup process:

Construction Completed, Operation & Maintenance Underway

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

USAF MAFB AMERICAN LK GDN (Continued)

S100562881

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Air

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Confirmed above MTCA cleanup levels

Horizontal Collection Method:

Hand measured-paper map (map interpolation)

EPA Priority Pollutants - Metals and Cyanide:

Not reported

Metals - Other non-priority pollutant metals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Not reported

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Confirmed above MTCA cleanup levels

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Not reported

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Not reported

Conventional Contaminants, Inorganic:

Not reported

Facility ID: 239

MTBE Code: Not reported

Responsible Unit: Headquarters Site Cleanup Section

Latitude: 47.00 7.00 59.34

Longitude: 122.00 31.00 4.44

Ecology Site Status relative to the MTCA cleanup process:

Construction Completed, Operation & Maintenance Underway

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Soil

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Confirmed above MTCA cleanup levels

Horizontal Collection Method:

Hand measured-paper map (map interpolation)

EPA Priority Pollutants - Metals and Cyanide:

Not reported

Metals - Other non-priority pollutant metals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Not reported

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Confirmed above MTCA cleanup levels

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Not reported

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Not reported

Conventional Contaminants, Inorganic:

Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

USAF MAFB AMERICAN LK GDN (Continued)

S100562881

Facility ID: 239
MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 7.00 59.34
Longitude: 122.00 31.00 4.44
Ecology Site Status relative to the MTCA cleanup process:
Construction Completed, Operation & Maintenance Underway
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Affected Media: Sediments
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Confirmed above MTCA cleanup levels
Horizontal Collection Method: Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide: Not reported
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Not reported
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Confirmed above MTCA cleanup levels
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

Facility ID: 239
MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 7.00 59.34
Longitude: 122.00 31.00 4.44
Ecology Site Status relative to the MTCA cleanup process:
Construction Completed, Operation & Maintenance Underway
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Affected Media: Drinking Water
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Confirmed above MTCA cleanup levels
Horizontal Collection Method: Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide: Not reported
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Not reported
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Confirmed above MTCA cleanup levels
Dioxin: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

USAF MAFB AMERICAN LK GDN (Continued)

S100562881

Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported

J34
ESE
> 1
5734 ft.
Higher

USAF MAFB MTCA LF 01 02
62 CES CEV
TACOMA, WA 98438

CSCSL S101429472
N/A

Site 2 of 6 in cluster J

SHWS:

Facility ID:	232
MTBE Code:	Not reported
Responsible Unit:	Headquarters Site Cleanup Section
Latitude:	47.00 7.00 29.35
Longitude:	122.00 30.00 9.43
Ecology Site Status relative to the MTCA cleanup process:	Remedial Action Completed, Confirmational Monitoring Underway
Independent Site Status - those sites undergoing an independent cleanup:	Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):	
Affected Media:	Soil
Media Status:	Not reported
Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Confirmed above MTCA cleanup levels
Horizontal Collection Method:	Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide:	Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Not reported
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Confirmed above MTCA cleanup levels
Conventional Contaminants, Inorganic:	Not reported

Facility ID:	232
MTBE Code:	Not reported
Responsible Unit:	Headquarters Site Cleanup Section
Latitude:	47.00 7.00 29.35
Longitude:	122.00 30.00 9.43
Ecology Site Status relative to the MTCA cleanup process:	Remedial Action Completed, Confirmational Monitoring Underway
Independent Site Status - those sites undergoing an independent cleanup:	Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):	
Affected Media:	Sediments
Media Status:	Not reported
Arsenic Code:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

USAF MAFB MTCA LF 01 02 (Continued)

S101429472

Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Confirmed above MTCA cleanup levels
Horizontal Collection Method:	Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide:	Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant medals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Not reported
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Confirmed above MTCA cleanup levels
Conventional Contaminants, Inorganic:	Not reported

Facility ID: 232
MTBE Code: Not reported
Responsible Unit: Headquarters:Site Cleanup Section
Latitude: 47.00 7.00 29.35
Longitude: 122.00 30.00 9.43
Ecology Site Status relative to the MTCA cleanup process:
Remedial Action Completed, Confirmational Monitoring Underway
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Affected Media: Ground Water
Media Status: Not reported
Arsenic Code: Not reported

Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Confirmed above MTCA cleanup levels
Horizontal Collection Method:	Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide:	Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant medals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Not reported
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Confirmed above MTCA cleanup levels
Conventional Contaminants, Inorganic:	Not reported

J35
ESE
> 1
5734 ft.
Higher

USAF MAFB MTCA WP 61
62 CES CEV
MCCHORD AFB, WA 98438
Site 3 of 6 in cluster J

SHWS:
Facility ID: 235

CSCSL S101189845
N/A

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

USAF MAFB MTCA WP 61 (Continued)

S101189845

MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 5.00 24.36
Longitude: 122.00 29.00 24.47
Ecology Site Status relative to the MTCA cleanup process:
Remedial Action Conducted, residual contamination left on site; on-going institutional controls required
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Affected Media: Soil
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
Horizontal Collection Method: Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Confirmed above MTCA cleanup levels
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Confirmed above MTCA cleanup levels

Facility ID: 235
MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 5.00 24.36
Longitude: 122.00 29.00 24.47
Ecology Site Status relative to the MTCA cleanup process:
Remedial Action Conducted, residual contamination left on site; on-going institutional controls required
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Affected Media: Ground Water
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
Horizontal Collection Method: Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Suspected to be present
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

USAF MAFB MTCA WP 61 (Continued)

S101189845

Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Suspected to be present

J36
ESE
> 1
5734 ft.
Higher

USAF MAFB MTCA WP 34
62 CES CEV
TACOMA, WA 98438

CSCSL S101429475
N/A

Site 4 of 6 in cluster J

SHWS:

Facility ID:	233
MTBE Code:	Not reported
Responsible Unit:	Headquarters Site Cleanup Section
Latitude:	47.00 8.00 19.36
Longitude:	122.00 29.00 54.46
Ecology Site Status relative to the MTCA cleanup process:	
Remedial Action in progress	
Independent Site Status - those sites undergoing an independent cleanup:	
Not reported	
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):	
Affected Media:	Ground Water
Media Status:	Not reported
Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide:	Not reported
Metals - Other non-priority pollutant metals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Not reported
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported

Facility ID:	233
MTBE Code:	Not reported
Responsible Unit:	Headquarters Site Cleanup Section
Latitude:	47.00 8.00 19.36
Longitude:	122.00 29.00 54.46
Ecology Site Status relative to the MTCA cleanup process:	
Remedial Action in progress	
Independent Site Status - those sites undergoing an independent cleanup:	
Not reported	
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):	
Affected Media:	Soil
Media Status:	Not reported
Arsenic Code:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

USAF MAFB MTCA WP 34 (Continued)

S101429475

Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide:	Not reported
Metals - Other non-priority pollutant metals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Not reported
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported

J37
ESE
> 1
5734 ft.
Higher

USAF MAFB MTCA 23 NFAS
62 CES CEV
MCCHORD AFB, WA 98438
Site 5 of 6 in cluster J

CSCSL S101189843
CSCSL NFA N/A

SHWS:

Facility ID: 231
MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 7.00 59.34
Longitude: 122.00 31.00 4.44
Ecology Site Status relative to the MTCA cleanup process:
Remedial Action in progress
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Affected Media: Ground Water
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Confirmed above MTCA cleanup levels
Horizontal Collection Method: Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Not reported
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Confirmed above MTCA cleanup levels
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

Facility ID: 231

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

USAF MAFB MTCA 23 NFAS (Continued)

S101189843

MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 7.00 59.34
Longitude: 122.00 31.00 4.44
Ecology Site Status relative to the MTCA cleanup process:
Remedial Action in progress
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Affected Media: Soil
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Suspected to be present
Horizontal Collection Method: Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide: Not reported
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Confirmed above MTCA cleanup levels
Petroleum Products: Confirmed above MTCA cleanup levels
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Confirmed above MTCA cleanup levels
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

Facility ID: 236
MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 7.00 34.36
Longitude: 122.00 29.00 24.47
Ecology Site Status relative to the MTCA cleanup process:
Remedial Action Conducted, residual contamination left on site; on-going institutional controls required
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Affected Media: Soil
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
Horizontal Collection Method: Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide: Not reported
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Confirmed above MTCA cleanup levels
Petroleum Products: Not reported
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

USAF MAFB MTCA 23 NFAS (Continued)

S101189843

Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

Facility ID: 236

MTBE Code: Not reported

Responsible Unit: Headquarters Site Cleanup Section

Latitude: 47.00 7.00 34.36

Longitude: 122.00 29.00 24.47

Ecology Site Status relative to the MTCA cleanup process:

Remedial Action Conducted, residual contamination left on site; on-going institutional controls required

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Ground Water

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Not reported

Horizontal Collection Method:

Hand measured-paper map (map interpolation)

EPA Priority Pollutants - Metals and Cyanide:

Not reported

Metals - Other non-priority pollutant metals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Suspected to be present

Petroleum Products:

Not reported

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Not reported

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Not reported

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Not reported

Conventional Contaminants, Inorganic:

Not reported

WA NFA:

Facility/Site Id : 237

Ecology Status : Awaiting Site Hazard Assessment

Independent Status Code : Not reported

WARM Bin Number : Not reported

NFA Code : NFA after Assessment IRAP or VCP

NFA Date : 4/12/1995 00:00:00

J38
ESE
> 1
5734 ft.
Higher

USAF MAFB WASHRACK
62ND CES CEV
MCCHORD AFB, WA 98438

CSCSL S102258390
N/A

Site 6 of 6 in cluster J

SHWS:

Facility ID: 225

MTBE Code: Not reported

Responsible Unit: Headquarters Site Cleanup Section

Latitude: 47.00 7.00 59.34

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

USAF MAFB WASHRACK (Continued)

S102258390

Longitude: 122.00 29.00 4.42

Ecology Site Status relative to the MTCA cleanup process:

Remedial Action Conducted, residual contamination left on site; on-going institutional controls required

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Sediments

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Not reported

Horizontal Collection Method:

Hand measured-paper map (map interpolation)

EPA Priority Pollutants - Metals and Cyanide:

Not reported

Metals - Other non-priority pollutant metals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Not reported

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Not reported

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Not reported

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Not reported

Conventional Contaminants, Inorganic:

Not reported

Facility ID: 225

MTBE Code: Not reported

Responsible Unit: Headquarters Site Cleanup Section

Latitude: 47.00 7.00 59.34

Longitude: 122.00 29.00 4.42

Ecology Site Status relative to the MTCA cleanup process:

Remedial Action Conducted, residual contamination left on site; on-going institutional controls required

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Air

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Confirmed above MTCA cleanup levels

Halogenated Organic Compounds:

Confirmed above MTCA cleanup levels

Horizontal Collection Method:

Hand measured-paper map (map interpolation)

EPA Priority Pollutants - Metals and Cyanide:

Not reported

Metals - Other non-priority pollutant metals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Confirmed above MTCA cleanup levels

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Suspected to be present

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Confirmed above MTCA cleanup levels

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

USAF MAFB WASHRACK (Continued)

S102258390

Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Suspected to be present
Conventional Contaminants, Inorganic: Suspected to be present

Facility ID: 225
MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 7.00 59.34
Longitude: 122.00 29.00 4.42
Ecology Site Status relative to the MTCA cleanup process:

Remedial Action Conducted, residual contamination left on site; on-going institutional controls required

Independent Site Status - those sites undergoing an independent cleanup:
Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Ground Water
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Confirmed above MTCA cleanup levels
Halogenated Organic Compounds: Confirmed above MTCA cleanup levels
Horizontal Collection Method: Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals: Confirmed above MTCA cleanup levels
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Confirmed above MTCA cleanup levels
Petroleum Products: Confirmed above MTCA cleanup levels
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Confirmed above MTCA cleanup levels
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Confirmed above MTCA cleanup levels
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Suspected to be present
Conventional Contaminants, Inorganic: Suspected to be present

Facility ID: 225
MTBE Code: Not reported
Responsible Unit: Headquarters Site Cleanup Section
Latitude: 47.00 7.00 59.34
Longitude: 122.00 29.00 4.42
Ecology Site Status relative to the MTCA cleanup process:

Remedial Action Conducted, residual contamination left on site; on-going institutional controls required

Independent Site Status - those sites undergoing an independent cleanup:
Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Surface Water
Media Status: Not reported
Arsenic Code: Not reported
Base/Neutral/Acid Organics: Confirmed above MTCA cleanup levels
Halogenated Organic Compounds: Confirmed above MTCA cleanup levels
Horizontal Collection Method: Hand measured-paper map (map interpolation)
EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals: Confirmed above MTCA cleanup levels

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

USAF MAFB WASHRACK (Continued)

S102258390

Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Confirmed above MTCA cleanup levels
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Suspected to be present
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Confirmed above MTCA cleanup levels
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Suspected to be present
Conventional Contaminants, Inorganic:	Suspected to be present

Facility ID: 225

MTBE Code: Not reported

Responsible Unit: Headquarters Site Cleanup Section

Latitude: 47.00 7.00 59.34

Longitude: 122.00 29.00 4.42

Ecology Site Status relative to the MTCA cleanup process:

Remedial Action Conducted, residual contamination left on site; on-going institutional controls required

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

Affected Media: Soil

Media Status: Not reported

Arsenic Code: Not reported

Base/Neutral/Acid Organics:

Confirmed above MTCA cleanup levels

Halogenated Organic Compounds:

Confirmed above MTCA cleanup levels

Horizontal Collection Method:

Hand measured-paper map (map interpolation)

EPA Priority Pollutants - Metals and Cyanide:

Confirmed above MTCA cleanup levels

Metals - Other non-priority pollutant metals:

Confirmed above MTCA cleanup levels

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Confirmed above MTCA cleanup levels

Petroleum Products:

Confirmed above MTCA cleanup levels

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Suspected to be present

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Confirmed above MTCA cleanup levels

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Suspected to be present

Conventional Contaminants, Inorganic:

Suspected to be present

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LAKESWOOD	S105082343	RELW WEST INC	4620 SW 95TH ST STE C	98499	HAZNET
LAKESWOOD	1005440867	FAIRLONG DRIVE DRUM	ALLEY W OF 6400 BLOCK OF FAIRLONG DR		CERCLIS, FINDS
LAKESWOOD	1004793712	BOESENS COLLISION CENTER INC	5124 74TH AVE W	98499	RCRIS-SQG, FINDS
LAKESWOOD	U003353742	BUILDING 33	CAMP MURRAY BUILDING 33	98499	LUST, UST
LAKESWOOD	1004794808	INTERSTATE BRANDS CO WONDER BREAD BAKER	8500 DURANGO ST SW	98499	RCRIS-SQG, FINDS
LAKESWOOD	1004794067	REGIONAL TRANSPORT SERVICES	8311 DURANGO W SIDE OF SITE	98499	RCRIS-SQG, FINDS
LAKESWOOD	1004794904	LAKE LOUISE DR DRUG LAB	105 LAKE LOUISE DR DRUG LAB	98499	RCRIS-SQG, FINDS
LAKESWOOD	1001490775	PENNZOIL QUAKER STATE CO	4215 95TH ST SW STE D	98499	RCRIS-SQG, FINDS
LAKESWOOD	U003182489	STEILACOOM CHEVRON	3701 STEILACOOM BLVD SW	98499	UST
LAKESWOOD	1004794677	RELW WEST INC LAKEWOOD	4620 95TH SW STE C	98499	RCRIS-SQG, FINDS
MCCHORD AFB	S104155870	MCCHORD INERT WASTE LANDFILL (PERMIT 27-104)	62ND CES/CEV 555 A STREET, SUITE 1	98438	SWF/LF
MCCHORD AFB	S104320447	USAF MAFB MTCA WP 44	62 CES CEV	98438	CSCSL
MCCHORD AIR FORCE BA	U003355380	MCCHORD U.S. AIR FORCE	62 CES/CEV	98438	UST
MCCHORD AIR FORCE BA	U003353285	ASR MCCHORD	LONG. 122 28 15W LAT. 47 08 19N	98438	UST
MCCHORD AIR FORCE BA	U003353278	ATBM MCCHORD	LONG. 122 28 50.8W LAT. 47 08 15.6N	98438	UST
TACOMA	1001600587	CLOROX XYTEC REMEDIATION SITE	9314A 47TH AVE SW	98438	UST
TACOMA	1003880331	MCCHORD CUSTOM CLEANERS	12923 BRIDGEPORT WY	98499	RCRIS-SQG, FINDS
TACOMA	U003352569	MCCHORD AFB/B53K046/MCABWQA4540	MC CHORD AFB	98438	CERC-NFRAP
TACOMA	U003352574	SECURITY PACIFIC BANK OF WASHINGTON	HUGHES MOBILE HOMES INC.	98438	LUST, UST
TACOMA	1000394614	WA DOT PIT B160	2800 104TH ST S SITE TRAILER	98499	UST
TACOMA	1005445145	PROFESSIONAL SERVICE INDUSTRIES S TACOMA	10025 S TACOMA WAY H1	98438	RCRIS-SQG, FINDS
				98499	RCRIS-SQG, FINDS

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D003	A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BE WASTE GUNPOWDER.
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D013	LINDANE
D018	BENZENE
D035	METHYL ETHYL KETONE
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

EPA Waste Codes Addendum

Code	Description
F005	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
P002	ACETAMIDE, N-(AMINOTHIOXOMETHYL)-
P002	1-ACETYL-2-THIOUREA
U129	CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-
U129	LINDANE
U154	METHANOL (I)
U154	METHYL ALCOHOL (I)
U238	CARBAMIC ACID, ETHYL ESTER
U238	ETHYL CARBAMATE (URETHANE)

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/24/02

Date Made Active at EDR: 12/09/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/04/02

Elapsed ASTM days: 35

Date of Last EDR Contact: 11/04/02

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 6

Telephone: 214-655-6659

EPA Region 3

Telephone 215-814-5418

EPA Region 8

Telephone: 303-312-6774

EPA Region 4

Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 10/24/02

Date Made Active at EDR: 12/09/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/04/02

Elapsed ASTM days: 35

Date of Last EDR Contact: 11/04/02

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

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: 08/15/02

Date Made Active at EDR: 10/28/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/23/02

Elapsed ASTM days: 35

Date of Last EDR Contact: 12/26/02

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/15/02
Date Made Active at EDR: 10/28/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 10/03/02
Elapsed ASTM days: 25
Date of Last EDR Contact: 12/26/02

CORRACTS: Corrective Action Report

Source: EPA
Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/29/02
Date Made Active at EDR: 12/26/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/15/02
Elapsed ASTM days: 72
Date of Last EDR Contact: 12/09/02

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS
Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS 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).

Date of Government Version: 09/09/02
Date Made Active at EDR: 10/28/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 09/24/02
Elapsed ASTM days: 34
Date of Last EDR Contact: 12/26/02

ERNS: Emergency Response Notification System

Source: EPA/NTIS
Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/01
Date Made Active at EDR: 07/15/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/02/02
Elapsed ASTM days: 13
Date of Last EDR Contact: 10/28/02

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS
Telephone: 800-424-9346

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: 12/31/99
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/17/02
Date of Next Scheduled EDR Contact: 03/17/03

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices
Telephone: Varies

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: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision

Source: EPA
Telephone: 703-416-0223

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: 12/21/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/07/03
Date of Next Scheduled EDR Contact: 04/07/03

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/18/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/04/02
Date of Next Scheduled EDR Contact: 02/03/03

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

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: 10/10/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/03
Date of Next Scheduled EDR Contact: 04/07/03

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/31/02
Database Release Frequency: Annually

Date of Last EDR Contact: 10/21/02
Date of Next Scheduled EDR Contact: 01/20/03

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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: 10/21/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/03
Date of Next Scheduled EDR Contact: 04/07/03

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 09/10/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/03/03
Date of Next Scheduled EDR Contact: 03/31/03

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (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 receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/25/02
Date of Next Scheduled EDR Contact: 02/24/03

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

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: 09/20/02
Database Release Frequency: Annually

Date of Last EDR Contact: 11/13/02
Date of Next Scheduled EDR Contact: 02/10/03

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

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: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/10/02
Date of Next Scheduled EDR Contact: 03/10/03

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-260-1531

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: 12/31/00
Database Release Frequency: Annually

Date of Last EDR Contact: 12/26/02
Date of Next Scheduled EDR Contact: 03/24/03

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

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: 12/31/98
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 12/10/02
Date of Next Scheduled EDR Contact: 03/10/03

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 10/24/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/26/02
Date of Next Scheduled EDR Contact: 03/24/03

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

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: 12/31/00
Database Release Frequency: Annually

Date of Last EDR Contact: 10/22/02
Date of Next Scheduled EDR Contact: 01/20/03

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

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: 10/24/02

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/26/02

Date of Next Scheduled EDR Contact: 03/24/03

STATE OF WASHINGTON ASTM STANDARD RECORDS

CSCSL: Confirmed & Suspected Contaminated Sites List

Source: Department of Ecology

Telephone: 360-407-7200

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: 10/30/02

Date Made Active at EDR: 12/13/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/18/02

Elapsed ASTM days: 25

Date of Last EDR Contact: 11/18/02

HSL: Hazardous Sites List

Source: Department of Ecology

Telephone: 360-407-7200

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: 08/27/02

Date Made Active at EDR: 10/04/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 09/09/02

Elapsed ASTM days: 25

Date of Last EDR Contact: 12/09/02

SWF/LF: Solid Waste Facility Database

Source: Department of Ecology

Telephone: 360-407-6132

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: 10/29/02

Date Made Active at EDR: 11/20/02

Database Release Frequency: Annually

Date of Data Arrival at EDR: 10/30/02

Elapsed ASTM days: 21

Date of Last EDR Contact: 01/06/03

LUST: Leaking Underground Storage Tanks Site List

Source: Department of Ecology

Telephone: 360-407-7200

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: 09/03/02

Date Made Active at EDR: 10/10/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/16/02

Elapsed ASTM days: 24

Date of Last EDR Contact: 12/19/02

UST: Underground Storage Tank Database

Source: Department of Ecology

Telephone: 360-407-7170

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/03/02
Date Made Active at EDR: 10/10/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/16/02
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/19/02

VCP: Voluntary Cleanup Program Sites

Source: Department of Ecology
Telephone: 360-407-7200

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

Date of Government Version: 06/30/02
Date Made Active at EDR: 11/05/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 10/24/02
Elapsed ASTM days: 12
Date of Last EDR Contact: 11/18/02

INDIAN UST: Underground Storage Tanks on Indian Land

Source: EPA Region 10
Telephone: 206-553-2857

Date of Government Version: 10/02/02
Date Made Active at EDR: 12/04/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 10/25/02
Elapsed ASTM days: 40
Date of Last EDR Contact: 10/03/02

STATE OF WASHINGTON ASTM SUPPLEMENTAL RECORDS

CSCSL NFA: Confirmed & Contaminated Sites - No Further Action

Source: Department of Ecology
Telephone: 360-407-7170

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: 10/24/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/18/02
Date of Next Scheduled EDR Contact: 02/17/03

ICR: Independent Cleanup Reports

Source: Department of Ecology
Telephone: 360-407-7200

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.

Date of Government Version: 06/01/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/18/02
Date of Next Scheduled EDR Contact: 02/17/03

SPILLS: Reported Spills

Source: Department of Ecology
Telephone: 360-407-7450

Spills reported to the Spill Prevention, Preparedness and Response Division.

Date of Government Version: 10/08/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/07/03
Date of Next Scheduled EDR Contact: 04/07/03

EMI: Washington Emissions Data System

Source: Department of Ecology
Telephone: 360-407-6040

Date of Government Version: 12/31/99
Database Release Frequency: Annually

Date of Last EDR Contact: 10/22/02
Date of Next Scheduled EDR Contact: 01/20/03

LOCAL RECORDS

KING COUNTY:

Abandoned Landfill Study in King County

Source: Seattle-King County Department of Public Health
Telephone: 206-296-4785

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: 04/30/85
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/21/94
Date of Next Scheduled EDR Contact: N/A

SEATTLE COUNTY:

Abandoned Landfill Study in the City of Seattle

Source: Seattle - King County Department of Public Health
Telephone: 206-296-4785

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: 07/30/84
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/21/94
Date of Next Scheduled EDR Contact: N/A

SEATTLE/KING COUNTY:

Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project

Source: Department of Public Health
Telephone: 206-296-4785

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: 12/31/86
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 08/14/95
Date of Next Scheduled EDR Contact: N/A

SNOHOMISH COUNTY:

Solid Waste Sites of Record at Snohomish Health District

Source: Snohomish Health District
Telephone: 206-339-5250

Date of Government Version: 09/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/22/02
Date of Next Scheduled EDR Contact: 01/20/03

TACOMA/PIERCE COUNTY:

Closed Landfill Survey

Source: Tacoma-Pierce County Health Department
Telephone: 206-591-6500

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/15/93
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 01/11/95
Date of Next Scheduled EDR Contact: N/A

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

STATE OF WASHINGTON BROWNFIELDS DATABASES RECORDS

VCP: Voluntary Cleanup Program Sites

Source: Department of Ecology

Telephone: 360-407-7200

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

Date of Government Version: 06/30/02

Database Release Frequency: Varies

Date of Last EDR Contact: 11/18/02

Date of Next Scheduled EDR Contact: 02/17/03

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.

Oil/Gas Pipelines/Electrical Transmission Lines: 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 and electrical transmission lines.

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.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LAKEWOOD ST SITES
11520 PACIFIC HIGHWAY SW
LAKEWOOD, WA 98499

TARGET PROPERTY COORDINATES

Latitude (North):	47.153198 - 47° 9' 11.5"
Longitude (West):	122.497902 - 122° 29' 52.4"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	538064.3
UTM Y (Meters):	5222092.5

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

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. 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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2447122-B4 TACOMA SOUTH, WA
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General NW

Source: General Topographic Gradient has been determined from the USGS 1 Degree 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

Target Property County
PIERCE, WA

FEMA Flood:
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 5301380313C

Additional Panels in search area:

- 5301480030B
- 5301380325C
- 5301380292C
- 5301380291C
- 5301380311C
- 5301480040B
- 5301380314C
- 5301380294C
- 5301380293C
- 5301380535C
- 5301380575C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
TACOMA SOUTH

NWI Electronic
Data Coverage
YES - refer to the Overview Map and Detail Map

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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: 2.0 miles
Location Relative to TP: 1/2 - 1 Mile SW
Site Name: COLLISION CENTER AUTO REPAIR
Site EPA ID Number: WAD980723035
Groundwater Flow Direction: NOT AVAILABLE
Inferred Depth to Water: 20 feet to 50 feet
Hydraulic Connection: The near-surface aquifer is situated in sand and gravel deposits that are up to 35 feet thick.
Sole Source Aquifer: No information about a sole source aquifer is available
Data Quality: (information is inferred in the CERCLIS investigation report(s))

AQUIFLOW®

Search Radius: 2,000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
27	1 - 2 Miles NE	SE

For additional site information, refer to Physical Setting Source Map Findings.

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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: SPANAWAY

Soil Surface Texture: gravelly - sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessive. Soils have high hydraulic conductivity and low 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							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200); Stone Fragments, Gravel and Sand.	COURSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 2.00	Max: 6.00 Min: 5.10
2	14 inches	18 inches	very gravelly - loam	Granular materials (35 pct. or less passing No. 200); Stone Fragments, Gravel and Sand.	COURSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
3	18 inches	60 inches	extremely gravelly - sand	Granular materials (35 pct. or less passing No. 200); Stone Fragments, Gravel and Sand.	COURSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 20.00 Min: 20.00	Max: 7.30 Min: 6.10

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinate soil types may appear within the general area of target property.

Soil Surface Textures: gravelly - loam
loamy fine sand
silt loam
muck
stony - sandy loam
silty clay loam
stony - loam
silty clay
loamy sand

Surficial Soil Types: gravelly - loam
loamy fine sand
silt loam
muck
stony - sandy loam
silty clay loam
stony - loam
silty clay
loamy sand

Shallow Soil Types: silt loam
sapric material

Deeper Soil Types: very gravelly - sandy loam
loamy fine sand
silty clay loam
very gravelly - sand
sapric material
cemented
silty clay
weathered bedrock
silt loam
sand
very gravelly - coarse sand
hemic material

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	470847122300601	1/2 - 1 Mile SSW
A3	470846122300701	1/2 - 1 Mile SSW
4	470933122291701	1/2 - 1 Mile NE
5	470917122290301	1/2 - 1 Mile East
6	470944122294201	1/2 - 1 Mile North
A9	470842122300801	1/2 - 1 Mile SSW
A10	470843122301301	1/2 - 1 Mile SSW
11	470933122302701	1/2 - 1 Mile NW
B12	470942122292401	1/2 - 1 Mile NNE
A13	470841122300901	1/2 - 1 Mile SSW
14	470842122301401	1/2 - 1 Mile SSW
B15	470944122292601	1/2 - 1 Mile NNE
16	470840122292501	1/2 - 1 Mile SSE
C18	470941122302501	1/2 - 1 Mile NW
D19	470938122290601	1/2 - 1 Mile NE
C20	470943122302301	1/2 - 1 Mile NW
21	470926122285001	1/2 - 1 Mile ENE
E22	470854122285101	1/2 - 1 Mile ESE
E23	470853122285001	1/2 - 1 Mile ESE
D24	470944122290101	1/2 - 1 Mile NE
25	470940122304201	1/2 - 1 Mile NW
26	470944122285001	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	WAGRP0000004922	1/4 - 1/2 Mile SW
B7	WAGRP0000004877	1/2 - 1 Mile NNE
8	WAGRP0000004893	1/2 - 1 Mile ENE
C17	WAGRP0000004873	1/2 - 1 Mile NW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

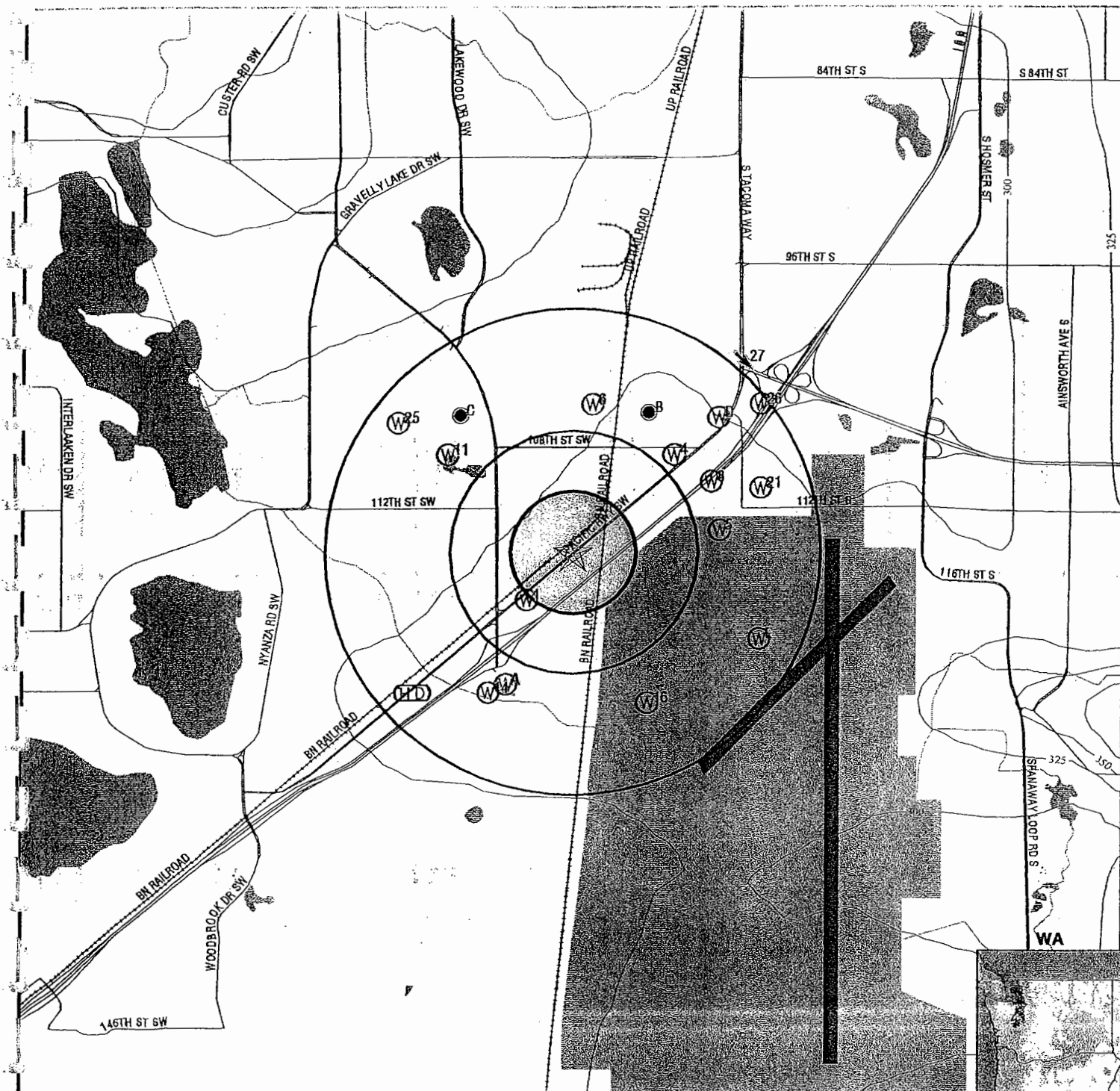
STATE DATABASE WELL INFORMATION

MAP ID

WELL ID

LOCATION
FROM TP

PHYSICAL SETTING SOURCE MAP - 0911266.1r



- ✓ County Boundary
- ✓ Major Roads
- ✓ Contour Lines
- ✈ Airports
- W Water Wells
- P Public Water Supply Wells
- ↑ Groundwater Flow Direction
- D Indeterminate Groundwater Flow at Location
- W Groundwater Flow Varies at Location
- Cluster of Multiple Icons

- ⊙ Earthquake epicenter, Richter 5 or greater
- (HD) Closest Hydrogeological Data

TARGET PROPERTY: Lakewood ST Sites
ADDRESS: 11520 Pacific Highway SW
CITY/STATE/ZIP: Lakewood WA 98199
LAT/LONG: 47.1532 / 122.4979

CUSTOMER: URS Corporation
CONTACT: Phyllis Rettke
INQUIRY #: 0911266.1r
DATE: January 15, 2003 12:54 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
SW
1/4 - 1/2 Mile
Higher

WA WELLS WAGRP0000004922

Source Name:	WELL #1	Range:	02E
Township:	19	Section:	12
QTR Section:	SWNW	Source Type:	W
Source Use:	P	SP X:	1502250
SP Y:	668997	PWS Name:	SUNRISE VILLAGE MHP
PWS ID:	85931	Source:	01
Key ID:	8593101		

A2
SSW
1/2 - 1 Mile
Higher

FED USGS 470847122300601

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1954	County:	Not Reported
Altitude:	275.00 ft.	State:	Not Reported
Well Depth:	40.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	6.76 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	02151960	Prim. Use of Water:	Domestic

A3
SSW
1/2 - 1 Mile
Higher

FED USGS 470846122300701

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1950	County:	Not Reported
Altitude:	275.00 ft.	State:	Not Reported
Well Depth:	65.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	12.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	02151960	Prim. Use of Water:	Public supply

4
NE
1/2 - 1 Mile
Higher

FED USGS 470933122291701

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1950	County:	Not Reported
Altitude:	275.00 ft.	State:	Not Reported
Well Depth:	51.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	23.45 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	08261960	Prim. Use of Water:	Domestic

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

5
East
1/2 - 1 Mile
Higher

FED USGS 470917122290301

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1929	County:	Not Reported
Altitude:	285.00 ft.	State:	Not Reported
Well Depth:	141.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Unused
Date Measured:	Not Reported	Prim. Use of Water:	Unused

6
North
1/2 - 1 Mile
Higher

FED USGS 470944122294201

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1976	County:	Not Reported
Altitude:	270.00 ft.	State:	Not Reported
Well Depth:	100.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	75.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	09231976	Prim. Use of Water:	Domestic

B7
NNE
1/2 - 1 Mile
Higher

WA WELLS WAGRP0000004877

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Source Name:	G-1 & G-2 SCOTT	Range:	02E
Township:	19	Section:	01
QTR Section:	NWSE	Source Type:	WF
Source Use:	S	SP X:	1504940
SP Y:	672836	PWS Name:	LAKEWOOD WATER DISTRICT
PWS ID:	45550	Source:	07
Key ID:	4555007		

8
ENE
1/2 - 1 Mile
Higher

WA WELLS WAGRP0000004893

Source Name:	WELL	Range:	02E
Township:	19	Section:	01
QTR Section:	SESE	Source Type:	W
Source Use:	P	SP X:	1506220
SP Y:	671477	PWS Name:	VICTORY MOTEL
PWS ID:	91717	Source:	01
Key ID:	9171701		

A9
SSW
1/2 - 1 Mile
Higher

FED USGS 470842122300801

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1950	County:	Not Reported
Altitude:	270.00 ft.	State:	Not Reported
Well Depth:	102.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	30.00 ft.	Prim. Use of Site:	Not Reported
Date Measured:	09061957	Prim. Use of Water:	Not Reported

A10
SSW
1/2 - 1 Mile
Higher

FED USGS 470843122301301

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Not Reported
Altitude:	265.00 ft.	State:	Not Reported
Well Depth:	65.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	9.48 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	02151960	Prim. Use of Water:	Domestic

11
NW
1/2 - 1 Mile
Lower

FED USGS 470933122302701

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1900	County:	Not Reported
Altitude:	265.00 ft.	State:	Not Reported
Well Depth:	28.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	22.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	10011939	Prim. Use of Water:	Domestic

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B12
NNE
1/2 - 1 Mile
Higher

FED USGS 470942122292401

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1949	County:	Not Reported
Altitude:	280.00 ft.	State:	Not Reported
Well Depth:	177.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	25.00 ft.	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Unused

A13
SSW
1/2 - 1 Mile
Higher

FED USGS 470841122300901

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1961	County:	Not Reported
Altitude:	270.00 ft.	State:	Not Reported
Well Depth:	103.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	51.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	12011961	Prim. Use of Water:	Domestic

14
SSW
1/2 - 1 Mile
Higher

FED USGS 470842122301401

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1937	County:	Not Reported
Altitude:	265.00 ft.	State:	Not Reported
Well Depth:	74.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	12.05 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	02151960	Prim. Use of Water:	Other

B15
NNE
1/2 - 1 Mile
Higher

FED USGS 470944122292601

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1950	County:	Not Reported
Altitude:	280.00 ft.	State:	Not Reported
Well Depth:	175.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	23.30 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	01011950	Prim. Use of Water:	Public supply

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

16
SSE
1/2 - 1 Mile
Higher

FED USGS 470840122292501

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type	County:	Not Reported
Year Constructed:	1900	State:	Not Reported
Altitude:	280.00 ft.	Topographic Setting:	Not Reported
Well Depth:	23.50 ft.	Prim. Use of Site:	Withdrawal of water
Depth to Water Table:	12.81 ft.	Prim. Use of Water:	Domestic
Date Measured:	05101940		

C17
NW
1/2 - 1 Mile
Lower

WA WELLS WAGRP0000004873

Source Name:	104TH & BRIDGEPT F-2	Range:	02E
Township:	19	Section:	02
QTR Section:	NESE	Source Type:	W
Source Use:	S	SP X:	1501020
SP Y:	672955	PWS Name:	LAKEWOOD WATER DISTRICT
PWS ID:	45550	Source:	06
Key ID:	4555006		

C18
NW
1/2 - 1 Mile
Lower

FED USGS 470941122302501

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type	County:	Not Reported
Year Constructed:	1949	State:	Not Reported
Altitude:	270.00 ft.	Topographic Setting:	Not Reported
Well Depth:	334.00 ft.	Prim. Use of Site:	Destroyed
Depth to Water Table:	23.00 ft.	Prim. Use of Water:	Unused
Date Measured:	06271949		

D19
NE
1/2 - 1 Mile
Higher

FED USGS 470938122290601

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type	County:	Not Reported
Year Constructed:	Not Reported	State:	Not Reported
Altitude:	Not Reported	Topographic Setting:	Not Reported
Well Depth:	173.00 ft.	Prim. Use of Site:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Water:	Not Reported
Date Measured:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C20
NW
1/2 - 1 Mile
Lower

FED USGS 470943122302301

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1949	County:	Not Reported
Altitude:	270.00 ft.	State:	Not Reported
Well Depth:	95.90 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	24.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	07011949	Prim. Use of Water:	Not Reported

21
ENE
1/2 - 1 Mile
Higher

FED USGS 470926122285001

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1976	County:	Not Reported
Altitude:	280.00 ft.	State:	Not Reported
Well Depth:	121.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	33.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	04011976	Prim. Use of Water:	Domestic

E22
ESE
1/2 - 1 Mile
Higher

FED USGS 470854122285101

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1952	County:	Not Reported
Altitude:	280.00 ft.	State:	Not Reported
Well Depth:	141.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	32.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Domestic

E23
ESE
1/2 - 1 Mile
Higher

FED USGS 470853122285001

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1957	County:	Not Reported
Altitude:	280.00 ft.	State:	Not Reported
Well Depth:	435.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	42.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Domestic

GEOCHECK PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

D24
NE
1/2 - 1 Mile
Higher

FED USGS 470944122290101

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1951	County:	Not Reported
Altitude:	305.00 ft.	State:	Not Reported
Well Depth:	87.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	28.69 ft.	Prim. Use of Site:	Unused
Date Measured:	02121960	Prim. Use of Water:	Unused

25
NW
1/2 - 1 Mile
Lower

FED USGS 470940122304201

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1932	County:	Not Reported
Altitude:	270.00 ft.	State:	Not Reported
Well Depth:	59.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Not Reported
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

26
NE
1/2 - 1 Mile
Higher

FED USGS 470944122285001

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1955	County:	Not Reported
Altitude:	276.00 ft.	State:	Not Reported
Well Depth:	169.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	24.25 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	01241955	Prim. Use of Water:	Industrial

27
NE
1 - 2 Miles
Higher

Site ID:	10186
Groundwater Flow:	SE
Shallowest Water Table Depth:	37.66
Deepest Water Table Depth:	38.68
Average Water Table Depth:	Not Reported
Date:	05/27/1994

AQUIFLOW 42496

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for PIERCE 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: 98499

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.180 pCi/L	80%	20%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	6.800 pCi/L	0%	100%	0%

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[®] 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

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.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-4099

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: 202-564-4099

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: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. 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 more than 900,000 wells, springs, and other sources of groundwater.

STATE RECORDS

Water Wells

Source: Department of Transportation
Telephone: 360-705-7444
Group A well location points in Washington State.

Kitsap County Water Wells in Washington

Source: Public Utility District No. 1 of Kitsap County
Telephone: 206-779-7656

RADON

Area Radon Information

Source: USGS
Telephone: 303-202-4210
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: 202-564-9370
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Appendix B

Stormwater Pollution Prevention Plan

LAKEVIEW AUTO WRECKING - SWRO
SO3-001083

Industrial Stormwater General Permit

Coverage Date: November 18, 2000

Expiration Date: November 18, 2005

Facility Location

**Address: 11528 PACIFIC HWY SW
TACOMA (WRIA 10)**

Acres: 0.7

***WRIA: 10 - PUYALLUP-WHITE**

County: PIERCE COUNTY

**Contact Person: R LEVESQUE
(206) 582 6000**

Mailing Address

**R A AND E R LEVESQUE
11528 PACIFIC HWY SW
TACOMA, WA 98499-5173**

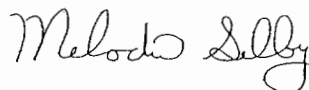
Billing Address

**LAKEVIEW AUTO WRECKING
RA & ER LEVISQUE
11528 PACIFIC HWY SW
TACOMA, WA 98499**

****Primary SIC 5093 - SCRAP AND WASTE MATERIALS**

*WRIA, Water Resource Inventory Area

**SIC, Standard Industrial Code



**Melodie A. Selby, P.E.
Section Manager
Water Quality Program**

1 P P

LAKEVIEW AUTO WRECKING

S03-001083

PIERCE COUNTY

PERMIT-STORMWATER



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

P.O. Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

October 21, 2002

CERTIFIED MAIL

Mr. Ed LeVesque
Lakeview Auto Wrecking
11528 Pacific Highway Southwest
Tacoma, WA 98499

Dear Mr. LeVesque:

Enclosed is the report of Department of Ecology's (Ecology) compliance inspection of Lakeview Auto Wrecking on September 24, 2002. Compliance inspections are a requirement of the General Industrial Stormwater Permit (Permit). I wish to thank you and Darryl Adams for the time and assistance provided during my site visit.

Ecology acknowledges the efforts Lakeview Auto Wrecking has taken to protect stormwater quality; we encourage you to continue those efforts. Please keep in mind that all employees must receive annual training on stormwater protection BMPs (best management practices). Also, Lakeview Auto Wrecking is required to conduct quarterly inspections of the facility and to document those inspections. This is a requirement of the Permit issued on September 20, 2002.

Please contact me at (360) 407-6273 if you have any questions or would like further technical assistance.

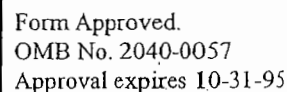
Sincerely,

A handwritten signature in black ink, appearing to read "Marilou M. Pivrotto".

Marilou M. Pivrotto
Industrial Stormwater Specialist
Water Quality Program
Southwest Regional Office

MP:lmc(162/wq)
Enclosure





Section A: National Data System Coding (i.e., PCS)

Transaction Code		NPDES		yr/mo/dy		Inspection Type		Inspector		Facility Type	
1 N	2 5	3 W A SO3 00 1083		09 24 02 11		12 9 9 C		12		17 18 S 19	
20											
Remarks											
21											
66											
Inspection Work Days		Facility Self-Monitoring Evaluation Rating		BI		QA		Reserved			
67 69		70		71		72		73 74		75 80	

Section B: Facility Data



Name and Location of Facility Inspected <i>(For industrial users reporting to POTW, also include POTW name and NPDES permit number)</i> Lakeview Auto Wrecking 11528 Pacific Highway Southwest Tacoma, WA 98499	Entry Time/Date 1311 09/24/02	Permit Effective Date 09/20/02
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number Ed LeVesque Owner (253) 582-6000 Darryl Adams, Manager	Other Facility Data This is a small wrecking yard of 5/8 acre located in an urban setting. The yard operates one shift a day six days a week, and employs five people.	
Name, Address of Responsible Official/Title/Phone and Fax Number Ed LeVesque As above		
()	Contacted <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Section C: Areas Evaluated During Inspection (*Check only those areas evaluated*)

x	Permit		Flow Measurement	x	Operations & Maintenance		CSO/SSO (Sewer Overflow)
x	Records/Reports		Self-Monitoring Program		Sludge Handling/Disposal	x	Pollution Prevention
x	Facility Site Review		Compliance Schedules		Pretreatment		Multimedia
x	Effluent/Receiving Waters		Laboratory	x	Stormwater		Other:

Section D: Summary of Findings/Comments (Attach additional sheets of narrative and checklists as necessary)

1. Prior to the owners arrival onsite, the facility manager and an employee were unaware that the facility was covered under the stormwater permit and were entirely unknowledgeable on it. When I asked the see the facility's Stormwater Pollution Prevention Plan (SWPPP), they did not know what I was talking about. The owner arrived a short time later and was able to provide me a copy of their SWPPP. Required wet and dry season inspections have not been documented.
2. Exceptional good housekeeping practices are maintained. The vast majority of parts and equipment are stored undercover; parts are stored in a very organized manner. At the time of inspection a small number of oily parts were stored in an exposed manner on the gravel surface.
3. Vehicles are drained upon arrival in a paved and covered area.
4. Drums of petroleum products are stored undercover in an open-doored shed.

Latitude and Longitude Verified? <input checked="" type="checkbox"/> WPLCS <input type="checkbox"/> GPS		<input type="checkbox"/> Announced
47 9 10 122 29 48		<input checked="" type="checkbox"/> Unannounced
Name(s) and Signature(s) of Inspector(s)	Agency/Office/Phone and Fax Numbers	Date
Marilou M. Pivrotto 	Ecology/SWRO (360) 407-6273/FAX 407-6305	10/02/02
Signature of Management A Q Reviewer	Agency/Office/Phone and Fax Numbers	Date
Steven G. Eberl, PE 	Ecology/SWRO (360) 407-6293	10-17-2002

LAKEVIEW AUTO WRECKING 9-24-02



OIL STAINING ON GRAVEL



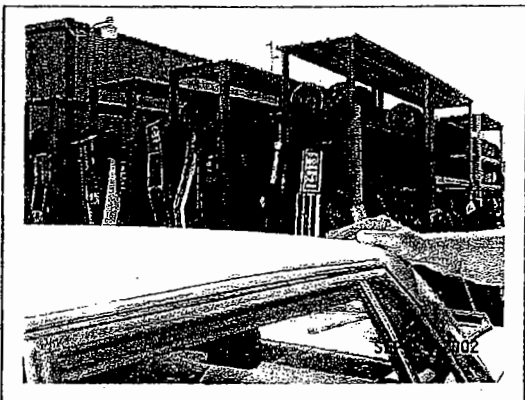
PAVED AND COVERED STORAGE
AREA FOR DRUMS



CAR DOOR STORAGE



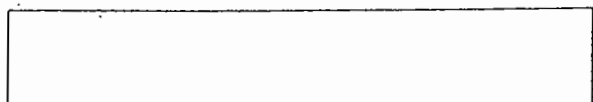
PARTS STORAGE



PARTS STORAGE



DRAINING OF PARTS UNDERCOVER





STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

P.O. Box 47600 • Olympia, Washington 98504-7600
(360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

Department of Ecology
Water Quality Program

OCT 15 2001

POSTED

Request for Stormwater Pollution Prevention Plan



Failure to Respond Is a Permit Violation

September 26, 2001

R A AND E R LEVESQUE
11528 PACIFIC HWY SW
TACOMA WA 98499

SO3001083C
LAKEVIEW AUTO WRECKING

Dear Permittee:

The Washington State Department of Ecology (Ecology) has received a formal request for a copy of the stormwater pollution prevention plan for your facility. You are to submit the copy to Ecology no later than **Friday, October 12, 2001**. Please include your permit number on the front of the copy of your stormwater pollution prevention plan and mail it to Ecology at the address listed below:

Department of Ecology
Water Quality Program
Attn: Shirley
PO Box 47600
Olympia WA 98504-7600

Please note that submitting a copy of your stormwater pollution prevention plan to Ecology upon request is a condition of your permit. To remain in compliance with your permit conditions you must respond to this request. This permit condition is located under Special Condition S9 **Stormwater Pollution Prevention Plan (SWPPP) for Industrial Facilities.**

B. General Requirements

2. Retention and Availability:

The permittee(s) shall retain the SWPPP on-site or within reasonable access to the site and make it available upon request to Ecology; and if discharge is to a municipal storm sewer system, to the municipal operator of the storm sewer system, on request. The public may also obtain a copy of a permittee's SWPPP by request from Ecology...

Ecology strongly recommends that you review Special Condition S9 to assure that you submit a complete copy of your SWPPP, containing all the required information. Ecology appreciates your prompt attention to this matter. If you have any questions or would like additional information, please contact Keith Johnson at email: kjoh461@ecy.wa.gov or by telephone at (360) 407-6442. Thank you for your cooperation.

Sincerely,

Melodie A. Selby, P.E., Section Manager
Department of Ecology, Water Quality Program



POSTED

15 JULY 1994 (DATE)

DOE PERMIT # 503001083C

STORMWATER POLLUTION PREVENTION PLAN

TABLE OF CONTENTS

POLLUTION PREVENTION TEAM

Department of Ecology
Water Quality Program

OCT 15 2001

SITE ASSESSMENT

- Checklist of Possible Pollutants
- Areas of Industrial Activity
- Site Map
- List of Any Significant Spills of Toxic or Hazardous Pollutants
- Non-stormwater Discharges
- Wet Season Stormwater Site Inspection Report (Form)

BMP IDENTIFICATION

- Operational BMP's
 - Housekeeping
 - Preventive Maintenance
 - Spill Prevention Cleanup
 - Employee Training
 - Inspections
 - Wet Season Stormwater Site Inspection Report (Form)
 - Dry Season Stormwater Site Inspection Report (Form)
 - Record Retention
- Source Control BMP's
 - Holding Area
 - Fluid Removal and Vehicle Process Area
 - Vehicle Storage Areas With No Customer Access
 - Vehicle Storage Areas With Customer Access
 - Crusher Operation Areas
 - Fluids Storage Area
 - Parts Storage Areas
 - Waste and Debris Storage
 - Soil Erosion
 - Contaminated Soil BMP
- Treatment BMP's
 - Stormwater Oil Removal Devices
 - Stormwater Settlement Pond
 - Stormwater Biofiltration Swale

IMPLEMENTATION SCHEDULE & CAPITAL BMP'S

INSPECTION SCHEDULE/REPORTS

POLLUTION PREVENTION TEAM

Lead Person: ED LEVESQUE

Name

Partner

Title

Organizes plan, assigns responsibilities, reviews inspections, updates plan.

Emergency Contact Phone Number 588-8841 ED LEVESQUE

HOME

Responsible for
Employee Training: ED LEVESQUE

Name

Partner

Title

Responsible for
Routine Inspections: ED LEVESQUE

Name

Partner

Title

Responsible for
Yearly Inspections: ED LEVESQUE

Name

Partner

Title

CHECKLIST OF POSSIBLE POLLUTANTS

The following checked items are the potential pollutants on site:

- ☒ Oils, Greases, and Fluids
 - ☒ Crankcase
 - ☒ Transmission
 - ☒ Rear End Grease
 - ☒ Power Steering Fluid
 - ☒ Brake Fluid
 - ☒ Radiator Fluids

☐ Soil Erosion (muddy runoff)

☒ Battery Acid

☒ Battery Cores

☐ Heavy Metals

☐ Lead

☐ Copper

☒ Fuels

☒ Gasoline

☒ Diesel

☐ Contaminated Soil

☒ Cleaning Chemicals, Including Solvents

☐ Pesticides

☐ Other (identify) _____

☐ Other (identify) _____

☐ Other (identify) _____

AREAS OF INDUSTRIAL ACTIVITY

The following checked activities are the industrial activities which are the potential source of pollutants on site:

- NO CRUSHING* →
- ☒ Vehicle holding yards
 - ☒ Fuel removal area (if separate from fluid removal area)
 - ☒ Fluid removal and process area
 - ☒ Part cleaning area
 - ☒ Vehicle Storage Areas with NO Customer Access
 - ☒ Vehicle Storage Areas WITH Customer Access
 - ☐ Where crushing operations occur
 - ☒ Fluid Storage Areas
 - ☒ Parts Storage Area
 - ☒ Waste and Debris Storage Area
 - ☐ Soil contamination
 - ☐ Areas of soil erosion
 - ☐ Other (identify) _____
 - ☐ Other (identify) _____

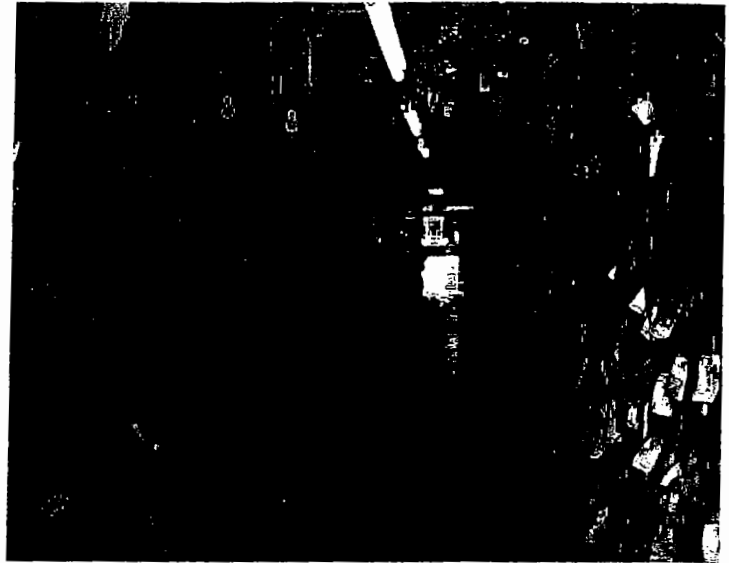
All areas checked are also identified on the site map.

Appendix C
Site Photographs



Photograph 1

View of the subject property.
Photograph taken across from Pacific Highway SW.
View toward north.



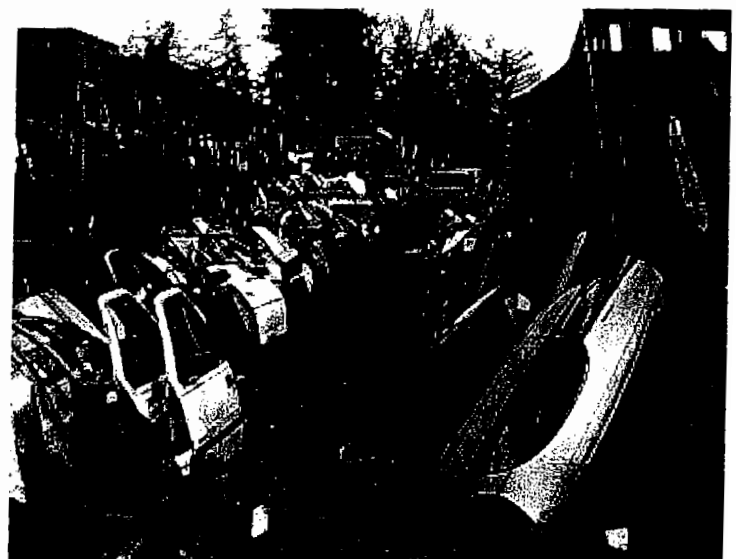
Photograph 2

Typical view of the interior storage area
at the parts storage building.



Photograph 3

View of the automobile disassembly shed.
View toward northeast.



Photograph 4

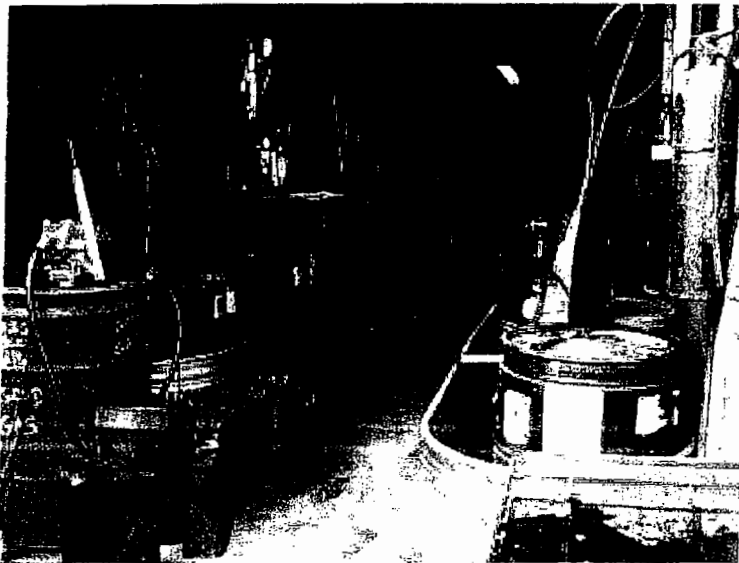
Typical view of the exterior storage area.

URS

Central Puget Sound Regional Transit Authority
Job No. 33755401

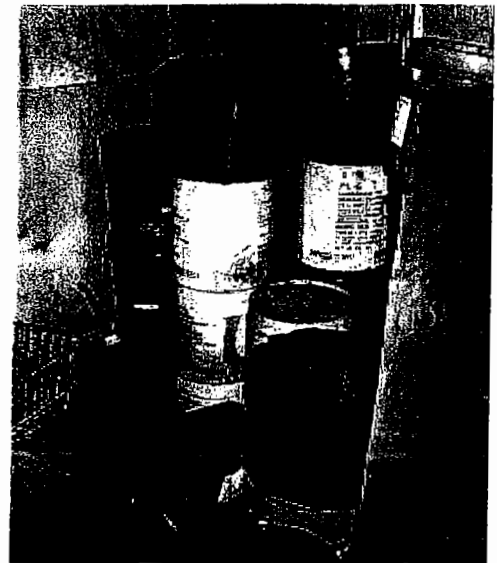
SITE PHOTOGRAPHS

Levesque/Lakeview Auto Wrecking Property
Lakewood, Washington



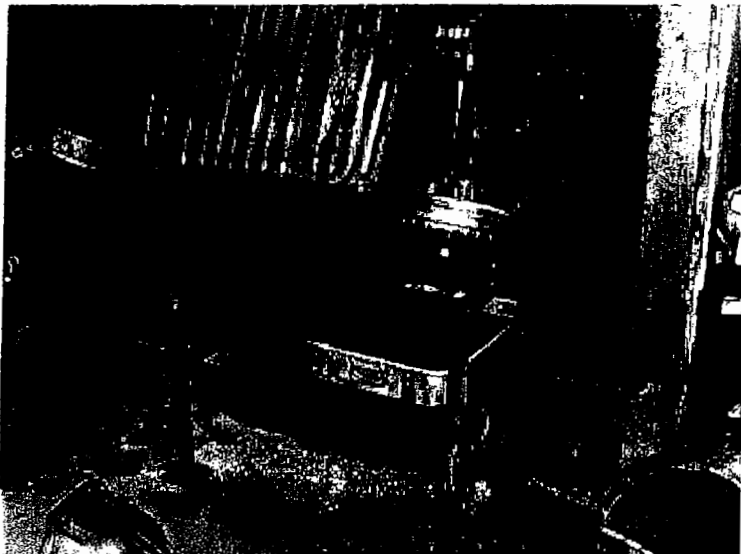
Photograph 5

View of the drum storage area at the automobile disassembly shed.



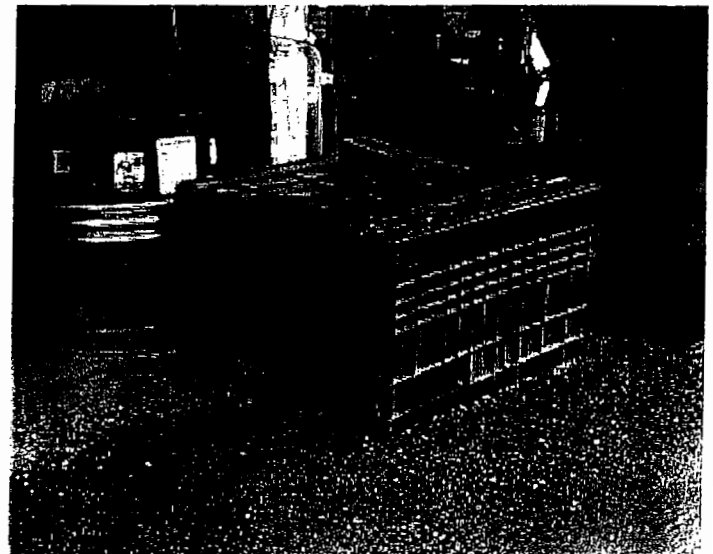
Photograph 6

Storage of motor oil and gasoline containers (1 to 5 gallons in size) observed at the corner of the automobile disassembly shed.



Photograph 7

View of the drain station, where motor oil and gasoline are drained or siphoned.



Photograph 8

View of the battery storage tote.

URS

Central Puget Sound Regional Transit Authority
Job No. 33755401

SITE PHOTOGRAPHS

Levesque/Lakeview Auto Wrecking Property
Lakewood, Washington



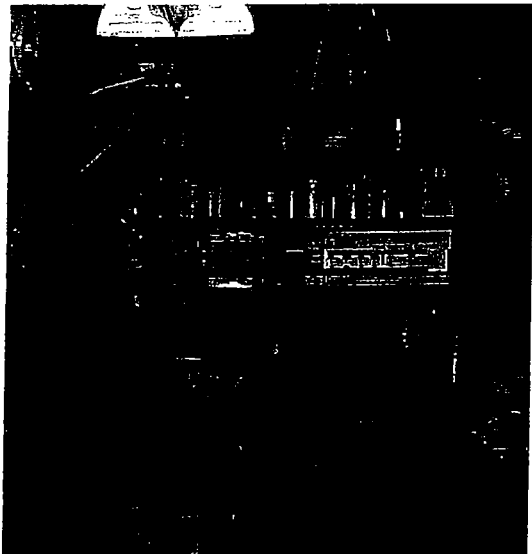
Photograph 9

View of scrap metal and discarded automobile parts stored in 55-gallon drums.



Photograph 10

View of two unlabeled drums observed to the north of the parts storage building.



Photograph 11

View of storage shelves consisting of various small containers of lubricants and aerosols observed at the northwestern portion of the parts storage building.

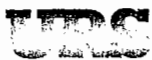


Photograph 12

View of BNSF railway adjacent to north of the subject property. View toward southwest.

TRS

SITE PHOTOGRAPHS



May 19, 2003

Mr. John McLean
Central Puget Sound Regional Transit Authority
401 South Jackson Street
Union Station
Seattle, Washington 98104

Final Report
"Good Faith" Asbestos Survey
Lakeview Auto Wrecking Property
11528 Pacific Highway SW
Lakewood, Washington
URS Project No. 33755401

Dear Mr. McLean:

INTRODUCTION

URS Corporation (URS) is pleased to present the findings of the "Good Faith" Asbestos Survey (the Survey) that was conducted at the property located at 11528 Pacific Highway in Lakewood, Washington on behalf of Central Puget Sound Regional Transit Authority (Sound Transit). This survey was performed in general accordance with our Master Services Agreement (contract number RTA-AS-106-02) with Sound Transit (under Purchase Order No. 96541-000-OB) and in accordance with our Scope of Work dated January 13, 2003 and authorized on January 14, 2003. The Survey was conducted on March 6 and 7, 2003 by Mr. Dan Fitzgibbons, an Asbestos Hazardous Emergency Response Act (AHERA)-certified building inspector with URS (a copy of the certificate is presented in Appendix A).

RESULTS OF ASBESTOS INVESTIGATION

URS collected a total of eighteen (18) asbestos bulk samples as part of the survey. Two (2) of the eighteen (18) bulk samples collected during the survey were found to contain regulated quantities of asbestos. The asbestos-containing materials (ACMs) identified were white roof sealant under the corrugated metal roof on the main building and silver paint applied over the black mastic used on the garage/shop building roof. A copy of the laboratory analytical report is attached and sample locations are illustrated in Figure 1. Asbestos results are shown on Table 1.

URS Corporation
Century Square
1501 4th Avenue, Suite 1400
Seattle, WA 98101-1616
Tel: 206.438.2700
Fax: 206.438.2699

Appendix D

Asbestos Survey Results



May 19, 2003

Mr. John McLean
Central Puget Sound Regional Transit Authority
401 South Jackson Street
Union Station
Seattle, Washington 98104

Final Report
"Good Faith" Asbestos Survey
Lakeview Auto Wrecking Property
11528 Pacific Highway SW
Lakewood, Washington
URS Project No. 33755401

Dear Mr. McLean:

INTRODUCTION

URS Corporation (URS) is pleased to present the findings of the "Good Faith" Asbestos Survey (the Survey) that was conducted at the property located at 11528 Pacific Highway in Lakewood, Washington on behalf of Central Puget Sound Regional Transit Authority (Sound Transit). This survey was performed in general accordance with our Master Services Agreement (contract number RTA-AS-106-02) with Sound Transit (under Purchase Order No. 96541-000-OB) and in accordance with our Scope of Work dated January 13, 2003 and authorized on January 14, 2003. The Survey was conducted on March 6 and 7, 2003 by Mr. Dan Fitzgibbons, an Asbestos Hazardous Emergency Response Act (AHERA)-certified building inspector with URS (a copy of the certificate is presented in Appendix A).

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URS Corporation
Century Square
1501 4th Avenue, Suite 1400
Seattle, WA 98101-1616
Tel: 206.438.2700
Fax: 206.438.2699

Mr. McLean
May 19, 2003
Page 2

CONCLUSIONS AND RECOMMENDATIONS

The Survey was performed to evaluate the potential presence of ACM at the property located at 11528 Pacific Highway, SW in Lakewood, Washington. The Survey was intended to be a "good faith" survey. The conclusions and recommendations for each material are discussed below.

ASBESTOS-CONTAINING MATERIALS

ACMs identified from the survey were white roof sealant under the corrugated metal roof on the main building and silver paint applied over the black mastic used on the garage/shop building roof. The main roof is approximately 5,000 square feet and URS estimated that 1,700 linear feet of the asbestos-containing white roof sealant is present. The garage/shop building roof is approximately 1,500 square feet and URS estimated that 100 linear feet of silver painted black mastic is present on the rooftop. Current regulations require that ACM be removed from the building if the materials would be disturbed by remodeling, renovation/demolition, or other building maintenance activities. Demolition is intended for this facility, but due to the lack of integrity to the roof URS recommends abating the asbestos-containing roof materials when the roof is demolished.

A trained contractor must remove the asbestos-containing roofing materials prior to renovation/demolition in accordance with the requirement of WAC 296-62-077 and Puget Sound Clear Air Agency Regulation III, Article 4. The general contractor should use caution when performing renovation/demolition activities within the project areas even after asbestos abatement activities. Concealed materials may be encountered during the demolition project. The ACM may be located in inaccessible areas.

The results of this Survey, in conjunction with the previous limited survey, satisfy the hazard communication criteria for a "good faith" survey of the property, as required by the L&I regulations (WAC 296-62-07721), and the Puget Sound Clean Air Agency Regulation III, Article 4: Asbestos Control Standards.

LIMITATIONS

The opinions presented herein apply to the site conditions existing at the time of our investigation, interpretations of analyses, interpretation of current regulations pertaining to hazardous materials, our experience with similar projects, and customary industry practice. Therefore, our opinions and recommendations may not apply to future conditions that may exist at the site, which we have not had the opportunity to evaluate. Future regulations pertaining to these materials may impose stricter restrictions on renovation/demolition work. The regulations

Mr. McLean
May 19, 2003
Page 3

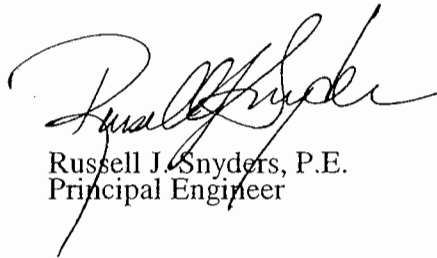
should always be verified prior to any work involving these materials. Per Sound Transit's request, a lead paint assessment was not included in the scope of work for this project. This document and the information contained herein have been prepared solely for the use of Sound Transit and are to be regarded as strictly confidential to Sound Transit and URS.

We trust this report meets your current requirements. URS appreciates the opportunity to assist you on this project. Please do not hesitate to contact us at (206) 438-2700 if you have any questions or require additional assistance.

Respectfully submitted,
URS CORPORATION-



Dan Fitzgibbons
Field Technician (AHERA-Certified)



Russell J. Snyder, P.E.
Principal Engineer

cc: Ty Griffith (URS)
Thomas Kim (URS)
Mark Mernard (Sound Transit)
Jay Larson (PHAROS Corporation)

Attachments:

Figure 1: Asbestos Building Material Sample Locations

Table 1: Summary of Asbestos Analytical Results

AHERA Certification

NVL Laboratory Report and Chain of Custody Sample Logs

TABLE 1
SUMMARY OF ASBESTOS SAMPLING AND ANALYTICAL RESULTS
LAKEVIEW AUTO WRECKING PROPERTY
11528 PACIFIC HIGHWAY SW
LAKEWOOD WASHINGTON

Sample No.	Material Type	Sample Location	Condition	Friable	Estimated Quantity	Analytical Results (% by volume) ^a
STA-1	White Sealant under Corrugated Metal Roof	Main Bldg. Roof	Good	No	1500 LF ^b	ND ^c
STA-2	Layer 1: White Sealant under Corrugated Metal Roof	Main Bldg. Roof	Good	No	1500 LF	Layer 1: 2% CHR ^{d,e}
	Layer 2: Gray Sealant					Layer 2: ND
STA-3	White Sealant under Corrugated Metal Roof	Main Bldg. Roof	Good	No	1500 LF	7% CHR
STA-4	Black Roof Patch	Trailer, Storage Roof	Good	No	50 LF	ND
STA-5	Gypsum Wallboard	Main Bldg., near restroom	Good	No	1000 SF ^f	ND
STA-6	Gypsum Wallboard	Main Bldg., at stairway	Good	No	1000 SF	ND
STA-7	Layer 1: Gypsum Wallboard	Main Bldg., from office	Good	No	1000 SF	Layer 1: ND
	Layer 2: Joint Compound					Layer 2: ND
STA-8	Textured "Popcorn" Ceiling	Main Bldg., Main Entry	Good	Yes	450 SF	ND
STA-9	Textured "Popcorn" Ceiling	Main Bldg., Main Entry	Good	Yes	450 SF	ND
STA-10	Textured "Popcorn" Ceiling	Main Bldg., from office	Good	Yes	450 SF	ND
STA-11	Layer 1: Beige Roll-Out Flooring	Shed, SW interior corner	Moderate	No	120 SF	Layer 1: ND
	Layer 2: Black Felt with Mastic					Layer 2: ND
STA-12	Layer 1: Beige Roll-Out Flooring	Shed, SW interior corner	Moderate	No	120 SF	Layer 1: ND
	Layer 2: Black Felt with Mastic					Layer 2: ND
STA-13	Layer 1: Beige Roll-Out Flooring	Shed, SW interior corner	Moderate	No	120 SF	Layer 1: ND
	Layer 2: Black Felt with Mastic					Layer 2: ND

TABLE 1
SUMMARY OF ASBESTOS SAMPLING AND ANALYTICAL RESULTS
LAKEVIEW AUTO WRECKING PROPERTY
11528 PACIFIC HIGHWAY SW
LAKEWOOD WASHINGTON

Sample No.	Material Type	Sample Location	Condition	Friable	Estimated Quantity	Analytical Results (% by volume) ^a
STA-14	Silver Paint on Black Mastic	Shed Roof	Good	Yes	100 SF	3% CHR
STA-15	Silver Paint on Black Mastic	Shed Roof	Good	Yes	100 SF	3% CHR
STA-16	White Roof Sealant	Shed Roof	Good	No	20 LF	ND
STA-17	Black Roof Mastic	Shed Roof	Good	No	50 LF	ND
STA-18	Black Roof Mastic	Shed Roof	Good	No	100 LF	ND

Notes:

- a) All asbestos analytical results are reported as percent asbestos per volume of bulk material sampled, as determined by U.S EPA Method 600/R-93/116.
- b) LF = Linear Feet
- c) ND = No Asbestos Detected
- d) **ND type indicates that analytical results confirm that the sampled material contains asbestos, or the material is presumed to contain asbestos.**
- e) CHR = Chrysotile Asbestos
- f) SF = Square Feet

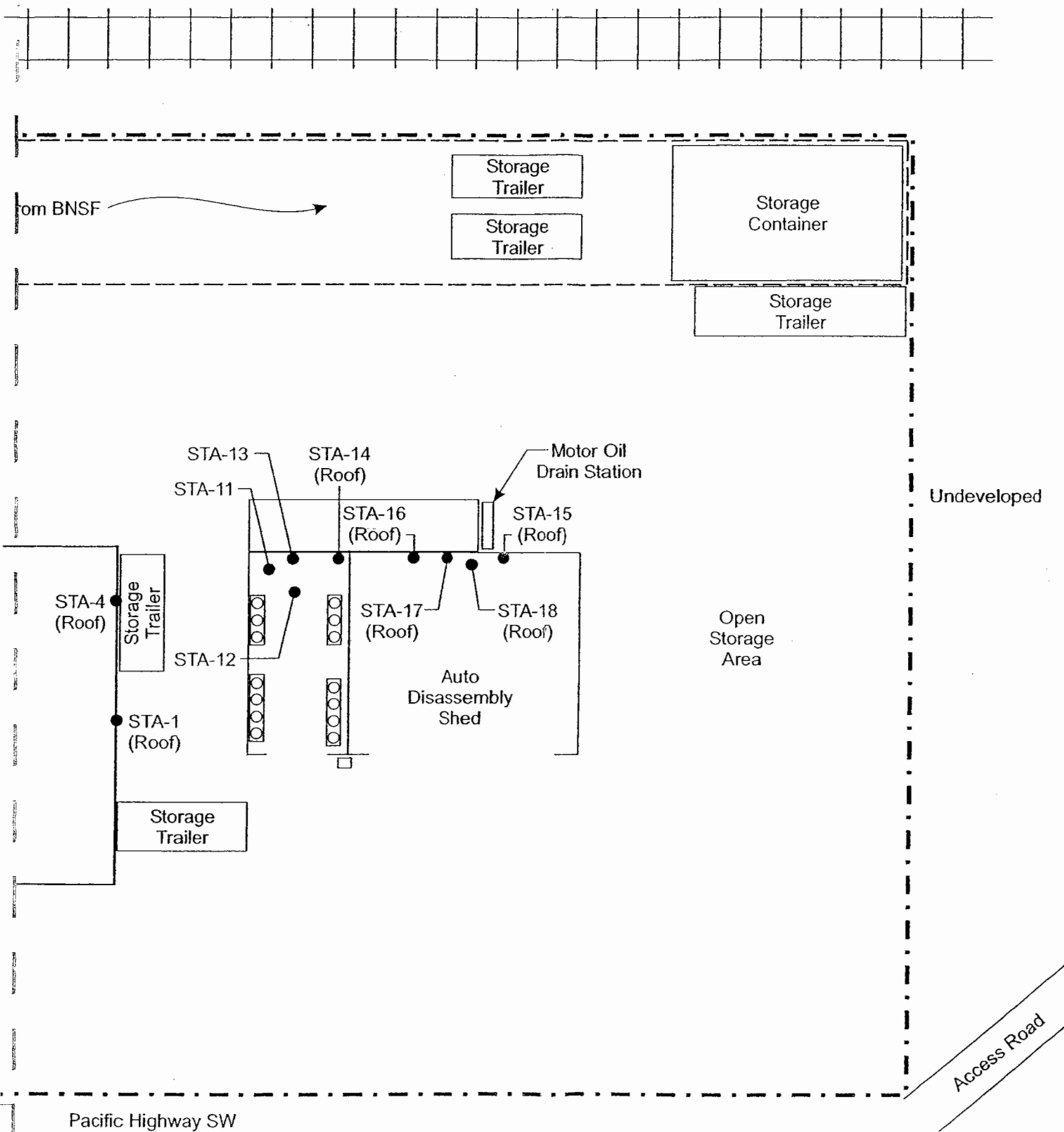


Figure 1
Asbestos Building Material Sample Locations

March 12, 2003



Thomas Kim
URS Corporation
1500 Century Square
1501 4th Ave: Suite 1400
Seattle, WA 98101

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2303100.00

Dear Mr. Kim,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.



For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.



For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Technical Director

Enc.: Sample Results

LABORATORIES, INC
8888 AURORA AVE N
SEATTLE, WA 98103.6516
206.547.0100
206.634.1936
vllabs@nvlabs.com

www.nvlabs.com
1.888.NVL.LABS (685.5227)

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: URS Corporation
Address: 1500 Century Square
Seattle, WA 98101

Attention: Mr. Thomas Kim

Project Location: 11528 Pc. Hwy. SW.

Batch #: 2303100.00

Client Project #: 33755401

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600R-93/116

Lab ID : 23020120 Client Sample #: STA-1

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: Gray soft material

Non-Fibrous Materials:

Binder/Filler

Other Fibrous Materials: %

Cellulose 2%

Asbestos Type: %

None Detected ND

Lab ID : 23020121 Client Sample #: STA-2

Location: 11528 Pc. Hwy. SW.

Layer 1 of 2 Description: Gray soft material

Non-Fibrous Materials:

Binder/Filler

Other Fibrous Materials: %

Cellulose 3%

Asbestos Type: %

Chrysotile 2%

Layer 2 of 2 Description: Gray brittle material

Non-Fibrous Materials:

Binder/Filler

Other Fibrous Materials: %

Cellulose 2%

Asbestos Type: %

None Detected ND

Lab ID : 23020122 Client Sample #: STA-3

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: Gray brittle material

Non-Fibrous Materials:

Binder/Filler

Other Fibrous Materials: %

Cellulose 2%

Asbestos Type: %

None Detected ND

Lab ID : 23020123 Client Sample #: STA-4

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: Black asphaltic material

Non-Fibrous Materials:

Asphalt/binder

Other Fibrous Materials: %

Cellulose 3%

Asbestos Type: %

Chrysotile 7%

Lab ID : 23020124 Client Sample #: STA-5

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: White chalky material with paper

Non-Fibrous Materials:

Gypsum/binder, Binder/filler

Other Fibrous Materials: %

Cellulose 27%

Asbestos Type: %

None Detected ND

Lab ID : 23020125 Client Sample #: STA-6

Location: 11528 Pc. Hwy. SW.

Sampled by: Client

Analyzed by: Wei Long Tai

Reviewed by: Nick Ly

Date: 03/12/2003

Date: 03/12/2003

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: URS Corporation
Address: 1500 Century Square
Seattle, WA 98101

Attention: Mr. Thomas Kim

Project Location: 11528 Pc. Hwy. SW.

Batch #: 2303100.00

Client Project #: 33755401

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600R-93/116

Layer 1 of 1 Description: White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Gypsum/binder, Binder/filler	Cellulose 25%	None Detected ND
	Glass fibers 4%	

Lab ID : 23020126 Client Sample #: STA-7

Location: 11528 Pc. Hwy. SW.

Layer 1 of 2 Description: White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler, Paint	Cellulose 3%	None Detected ND

Layer 2 of 2 Description: White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Gypsum/binder, Binder/filler	Cellulose 27%	None Detected ND

Lab ID : 23020127 Client Sample #: STA-8

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: White lumpy foamy material

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Synthetic foam, Binder/filler	Cellulose 3%	None Detected ND

Lab ID : 23020128 Client Sample #: STA-9

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: White lumpy foamy material

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Synthetic foam, Binder/filler	Cellulose 3%	None Detected ND

Lab ID : 23020129 Client Sample #: STA-10

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: White lumpy foamy material

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Synthetic foam, Binder/filler	Cellulose 3%	None Detected ND

Lab ID : 23020130 Client Sample #: STA-11

Location: 11528 Pc. Hwy. SW.

Layer 1 of 2 Description: White/gray patterned vinyl material

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Vinyl/binder	Cellulose 2%	None Detected ND

Sampled by: Client

Analyzed by: Wei Long Tai

Reviewed by: Nick Ly

Date: 03/12/2003

Date: 03/12/2003

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: URS Corporation
Address: 1500 Century Square
Seattle, WA 98101

Attention: Mr. Thomas Kim

Project Location: 11528 Pc. Hwy. SW.

Batch #: 2303100.00

Client Project #: 33755401
Samples Received: 18
Samples Analyzed: 18
Method: EPA/600R-93/116

Layer 2 of 2 Description: Black asphaltic fibrous felt with mastic

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Asphalt/binder, Binder/filler, Mastic/binder	Cellulose 65%	None Detected ND

Lab ID : 23020131 Client Sample #: STA-12

Location: 11528 Pc. Hwy. SW.

Layer 1 of 2 Description: Brown vinyl material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Vinyl/binder	Cellulose 1%	None Detected ND

Layer 2 of 2 Description: Black asphaltic fibrous felt with mastic

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Asphalt/binder, Binder/filler, Mastic/binder	Cellulose 65%	None Detected ND

Lab ID : 23020132 Client Sample #: STA-13

Location: 11528 Pc. Hwy. SW.

Layer 1 of 2 Description: White/gray patterned vinyl

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Vinyl/binder	Cellulose 1%	None Detected ND

Layer 2 of 2 Description: Black asphaltic fibrous felt with mastic

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Asphalt/binder, Binder/filler, Mastic/binder	Cellulose 65%	None Detected ND

Lab ID : 23020133 Client Sample #: STA-14

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: Silver soft material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 2%	Chrysotile 3%

Lab ID : 23020134 Client Sample #: STA-15

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: Gray soft material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 2%	Chrysotile 3%

Lab ID : 23020135 Client Sample #: STA-16

Location: 11528 Pc. Hwy. SW.

Sampled by: Client

Analyzed by: Wei Long Tai

Reviewed by: Nick Ly

Date: 03/12/2003

Date: 03/12/2003

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: URS Corporation
Address: 1500 Century Square
Seattle, WA 98101

Attention: Mr. Thomas Kim

Project Location: 11528 Pc. Hwy. SW.

Batch #: 2303100.00

Client Project #: 33755401

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600R-93/116

Layer 1 of 1 Description: White soft material with paint

Non-Fibrous Materials:

Binder/Filler, Paint

Other Fibrous Materials: %

Cellulose 2%

Asbestos Type: %

None Detected ND

Lab ID: 23020136 Client Sample #: STA-17

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: Black soft material

Non-Fibrous Materials:

Binder/Filler

Other Fibrous Materials: %

Cellulose 1%

Asbestos Type: %

None Detected ND

Lab ID: 23020137 Client Sample #: STA-18

Location: 11528 Pc. Hwy. SW.

Layer 1 of 1 Description: Black asphaltic material

Non-Fibrous Materials:

Asphalt/binder

Other Fibrous Materials: %

Cellulose 3%

Asbestos Type: %

None Detected ND

Sampled by: Client

Analyzed by: Wei Long Tai

Reviewed by: Nick Ly

Date: 03/12/2003

Date: 03/12/2003

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 206.547.0100 Emerg. Pager: 206.344.1878
 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

BATCH ID

2303100.00

 Client URS Corporation

Street 1500 Century Square
1501 4th Ave; Suite 1400
Seattle, WA 98101

 Project Manager Thomas Kim

 Project Location 11528 Pal. Hwy. SW.

NVL Batch Number _____

 Client Job Number 33755401

Total Samples _____

Turn Around Time ☐ 1-Hr ☐ 4-Hrs ☐ 2 Days ☐ 4 Days
☐ 2-Hrs ☐ 24-Hrs ☒ 3 Days ☐ 5 Days

Please call for TAT less than 24 Hrs

 Email address thomas_kim@urscorp.com

Phone: (206) 438-2700 Fax: (866) 495-5288

 Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other _____

 Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS

 Total Metals
 TCLP

Det. Limit
☐ ppm (AAS)
☐ ppb (GFAA)

Matrix
☐ Air Filter ☐ Paint Chips
☐ Drinking water ☐ Paint Chips (Area)
☐ Dust/wipe ☐ Waste Water
☐ Soil

RCRA Metals
☐ All 8
☐ Arsenic (As) ☐ Lead (Pb)
☐ Barium (Ba) ☐ Mercury (Hg)
☐ Cadmium (Cd) ☐ Selenium (Se)
☐ Chromium (Cr) ☐ Silver (Ag)

Other Metals
☐ All 3
☐ Copper (Cu)
☐ Nickel (Ni)
☐ Zinc (Zn)

 Other Types
 of Analysis

☐ Fiberglass ☐ Nuisance Dust ☐ Rotometer Calibration ☐ Other (Specify) _____
☐ Silica ☐ Respirable Dust ☐ Mold/Fungus

 Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Eq. #	Lab ID	Client Sample Number	Comments	A/R
1		STA-1		
2		STA-2		
3		STA-3		
4		STA-4		
5		STA-5		
6		STA-6		
7		STA-7		
8		STA-8		
9		STA-9		
10		STA-10		
11		STA-11		
12		STA-12		
13		STA-13		
14		STA-14		
15		STA-15		

	Print Below	Sign Below	Company	Date	Time
Sampled by	Dan Fitzgibbon		URS Corp.	3/7/03	3:55 PM
Relinquished by					
Received by	Wendy White		URS	3/7	4:00 PM
Analyzed by			URS	3/12/03	
Results Called by					
Results Faxed by			URS	3/12/03	pub

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

PLEASE E-MAIL LAB RESULTS TO T. Kim & D. FITZGIBBONS.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103

206.547.3100 Emrg. Pager: 206.344.1878

1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
SAMPLE LOG**

BATCH ID

2303100.00

Client URS CorporationStreet 1500 Century Square
1501 4th Ave; Suite 1400
Seattle, WA 98101Project Manager Thomas KimProject Location 11528 Pac. Hwy. SW.

NVL Batch Number _____

Client Job Number 33755401Total Samples 18Turn Around Time ☐ 1-Hr ☐ 4-Hrs ☐ 2 Days ☐ 4 I
☐ 2-Hrs ☐ 24-Hrs ☒ 3 Days ☐ 5 I

Please call for TAT less than 24 Hrs

Email address thomas_kim@urscorp.com

Phone: (206) 438-2700

Fax: (866) 495-5288

Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other _____Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk**METALS**

Total Metals

TCLP

Det. Limit

☐ ppm (AAS)☐ ppb (GFAA)

Matrix

☐ Air Filter☐ Drinking water☐ Dust/wipe☐ Soil☐ Paint Chips☐ Paint Chips (Area)☐ Waste Water

RCRA Metals

☐ Arsenic (As)☐ Barium (Ba)☐ Cadmium (Cd)☐ Chromium (Cr)☐ All 8☐ Lead (Pb)☐ Mercury (Hg)☐ Selenium (Se)☐ Silver (Ag)

Other Metals

☐ All 3☐ Copper (Cu)☐ Nickel (Ni)☐ Zinc (Zn)

Other Types

of Analysis

☐ Fiberglass☐ Silica☐ Nuisance Dust☐ Respirable Dust☐ Rotometer Calibration☐ Mold/Fungus☐ Other (Specify) _____Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		STA-16		
2		STA-17		
3		STA-18		
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Dan Fitzgibbons		URS Corp.	3/7/03	4:00 PM
Relinquished by			URS Corp.	3/7	4:00 PM
Received by	Wendy	Wendy	NVL	3/7	4:00 PM
Analyzed by			NVL		
Results Called by					
Results Faxed by			NVL	3/7/03	4:00 PM

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Please Email Results to Thomas Kim &
Dan Fitzgibbons

Certificate of Completion

This is to certify that
Dan J Fitzgibbons
has satisfactorily completed
4 hours of refresher training as an

Asbestos Building Inspector

to comply with the training requirements of
TSCA Title III / 40 CFR 763 (ASHERA)

Certificate Number 1002590


Training Administration

AHERA Certified: MO9907012



Jul 3, 2002

Date(s) of Training

Expiration Date: Jul 3, 2003

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Appendix E

Resumes

Expertise

Soil and Groundwater Remediation
Hazardous Waste RI/FS
Project Management
NEPA/SEPA Environmental Impact Studies
Water Resource Management
Regulatory Compliance
Strategic Management
Energy Services

Years of Experience

16

Education

BS, Earth Sciences, University of California, Santa Cruz, 1982
MS, Geology/ Hydrogeology, University of Connecticut at Storrs, 1988

Registration

Licensed Professional Geologist, Washington (2071)
Licensed Professional Hydrogeologist, Washington (2071)

Experience

Mr. Griffith is a Licensed Geologist and Hydrogeologist with over 16 years of experience in the field of environmental characterization, remediation, and compliance. He has a broad background of experience including full facility characterizations, contaminant fate and transport studies, soil/groundwater remediation programs, groundwater resource development and protection projects, negotiations with state and federal regulatory agencies, and expert witness testimony. He has successfully managed compliance issues under CERCLA, RCRA, TSCA, Washington's Model Toxics Control Act (MTCA) as well as several other State Hazardous Waste Site programs. Specific project experience includes:

- ☐ ***Indefinite Quantity Services Contract, United States Postal Service, Connecticut, Massachusetts, New York, and Vermont.*** Project manager and principal contact for the USPS Northeast Area Facilities Service Office and two District Environmental Compliance Coordinators. Responsible for work scope and budget development, management of project execution, technical oversight, and reporting for multiple projects in the Northeast. Projects included:
 - Completion of multiple Phase I and II environmental assessments in Connecticut, Massachusetts, New York, and Vermont. Projects included ASTM standard protocols as well as NEPA checklist reviews for proposed local post offices. Some reviews also included a wetland delineation and survey.
 - Completion of a National Environmental Policy Act (NEPA) Environmental Assessment (EA) of four sites proposed for relocation of a Vehicle Maintenance Facility, a Main Post Office, and a carrier annex/training center.
 - A practicable alternatives analysis for potential wetland impacts associated with development of a new post office in Hebron, CT.
- ☐ ***Site Demolition and Remedial Action, Central Puget Sound Regional Transit Authority, Tacoma, Washington.*** Project Manager for a site demolition and UST remediation project performed as part of the Sound Transit Link Light Rail Project. The subject site was historically used as a gasoline service station and soil/groundwater sampling results indicated the

presence of residual subsurface contamination. The site was purchased by Sound Transit and current plans for the site include construction of a Light Rail track bed as well as a public park. Services provided for this project included a Phase I/II environmental assessment, preparation of reports and work plans for submittal to the Washington Department of Ecology, an asbestos and lead survey, and preparation of technical specifications for site demolition and restoration activities, and oversight of the abatement, demolition and remediation contractor work.

- ☐ ***Multi-Facility Audits, Underground Injection Well Program Compliance, US Postal Service, Washington.*** Managed project to survey over 200 US Postal Service (USPS) facilities to document compliance with the state and federal Underground Injection Control Program (UCIP). Facility visits were completed over a ten week period and included a determination of the presence of underground injection systems (which may include dry wells, septic systems, roof drains, catch basins), drinking water wells, and/or documentation regarding the presence of and connection to public utilities. The project included the collection of GPS coordinate data and the population of a compliance database for each facility.
- ☐ ***Petroleum Terminal Investigation and Remediation, Vinci Oil Company, Connecticut.*** Project manager and Connecticut LEP for an environmental characterization and PCB remediation project conducted prior to transfer of the property. The property was an approximately 3-acre bulk transfer and storage facility (gasoline, fuel oil, and waste oil) located on the Connecticut River. The project included Phase I/II soil and groundwater investigations, testing of a concrete floor slab and oil/water separator for PCBs, oversight and confirmatory testing of PCB contaminated soil removal and concrete decontamination and negotiations with state regulatory agencies. The property was transferred upon completion of remedial activities and certification to the state by a Licensed Site Professional.
- ☐ ***Underground Storage Tank Removal and Replacement, City of Springfield, Massachusetts.*** Senior Project Manager and Massachusetts LSP for a rapid response project involving preparation of plans and specifications to remove and replace three 75,000-gallon fuel oil tanks, as well as excavate and treat contaminated soil. The project was performed under the Massachusetts Contingency Plan. Achieving a permanent risk-based solution (Class A Response Action Outcome [RAO]) was imperative to the pending sale of the property. Designed a Class A RAO using the newly developed VPH/EPH analyses for petroleum product, which demonstrated that potential risks to human health and the environment were mitigated while minimizing the volume of petroleum-contaminated soil requiring remediation. The resulting technical and regulatory solution allowed the municipality to realize significant cost savings and sell the facility within their schedule.

- ☐ **Remedial Investigation and Feasibility Study (RI/FS) and Interim Remedial Action, International Paper, Klickitat, Washington.** Managed RI/FS and interim remedial actions at a former saw mill. The mill operated for over 80 years and was partially razed by fires in 1998. Regulatory concerns included potential impacts from wood treatment operations, petroleum hydrocarbon storage and use, and historic PCB transformer management. Investigation and cleanup approaches and standards were negotiated with Ecology under the Voluntary Cleanup Program and the 2001 revisions to the MTCA regulations.
- ☐ **Remedial Action Monitoring, US Army Corps of Engineers, Wyckoff Superfund Site, Bainbridge Island, Washington.** Managing the performance remedial monitoring activities for the US Army Corps of Engineers (USACE). Project activities include ambient water quality monitoring in Eagle Harbor during remedial construction activities (sediment capping, placement of an engineered embankment, tidal habitat restoration, and sheet pile wall construction), ambient noise monitoring at various on-site and off-site locations, and hydraulic testing to assess the permeability of the sheet pile cut-off wall. Additional monitoring activities include process line vapor sampling, boiler stack testing, ambient air monitoring of multiple fugitive emission sources during a thermal remediation pilot test. Monitoring results will be used to assess regulatory compliance and to design a full scale thermal treatment system.
- ☐ **Morgan Products Remedial Investigation/Feasibility Study (RI/FS) and Remedial Action, International Paper, Weed, California.** Managed project to characterize and remediate pentachlorophenol-contaminated soil and groundwater. Interim measure soil remediation was conducted in 1996 and groundwater monitoring has been conducted since that time. Recent activities include design and installation of a cut-off trench and groundwater extraction wells to limit off-site plume migration. Remedial feasibility testing (pilot scale) and design of a bio-sparging system as a final remedy is in progress.
- ☐ **RCRA Facility Investigation (RFI), Envirote Corporation, Thomaston, Connecticut.** Served as senior project manager for an RFI at a closed metal hydroxide sludge TSDF. This \$800,000 project was conducted under a Consent Order with the EPA. Work included a thorough characterization of wastes disposed of at the site as well as chemical impacts to groundwater, surface water, soils, sediment, and air. Investigations included a five day soil gas survey, installation of multiple wells, borehole permeability tests, a pump test, stream gauging and seepage meter tests, and chemical sampling of landfill material, soil, sediment, surface water, groundwater, and indoor air. Oversaw all of the investigations and analyses and managed a project team of seven project engineers, one project manager, and our drill crew. Clear and coordinated project control and billing procedures were the key to the successful completion of this investigation. Upon approval from EPA, the results of the RFI were used to conduct a risk assessment and will form the basis for evaluation of corrective action at the site.
- ☐ **Remedial Investigation/Feasibility Study (RI/FS), Connecticut Department of Environmental Protection, Plymouth, Connecticut.** Senior Project Manager for State Superfund RI/FS at a chlorinated solvent disposal site in a rural, residential area. Developed a work plan and budget to: evaluate the nature and extent of chlorinated solvent contamination in the

bedrock aquifer; perform aquifer tests and chemical tests to evaluate and select remedial options; characterize risks to health and the environment; provide cost/benefit analyses for the installation of public water vs. operating point of use treatment systems at impacted residences; and perform quarterly sampling and treatment system O&M at impacted homes. The investigation included a soil gas survey, test pits, fracture trace analysis, installation of ten 8-inch bedrock wells, pump tests, chemical testing and data analysis, and a remedial feasibility study. Remedial actions implemented include installation of a bedrock pump and treat system and extending a municipal water supply to effected residents.

- ❑ ***Voluntary Corrective Action/Stabilization Evaluation, Tech Systems, Thomaston, Connecticut.*** Senior Project Manager and Connecticut LEP for a \$750,000 project that originated as a RCRA Post-Closure Part B Application and spanned eight years. The project included subsurface investigations related to a closed surface impoundment and two solvent release areas. Investigations have included geophysical surveys, soil gas surveys, multiple overburden and bedrock well installations, aquifer pump testing, surface water testing, and operation of a pump and treat system.
- ❑ ***Groundwater Sparging and Soil Vapor Extraction, Rexnord Corporation, Massachusetts.*** Project manager and Massachusetts LSP for this fast-track remediation program at a former metal manufacturing facility to facilitate sale of the property. The contaminant of concern was pure phase PCE from below a building slab. The remedial system targeted VOCs in unsaturated and saturated soil in the source area and a groundwater plume. An extensively instrumented pilot test assessed site constraints, including stratified lower permeability soils and deep contamination. The full-scale remedial system included a state-of-the-practice remote data acquisition system and automated system fail-safes. Designed a densely spaced air injection/extraction grid coupled with high flow air injection and extraction equipment to achieve a rapid clean-up of the site. In less than four months time the remediation was complete, on time and under budget. Five to six hundred pounds of VOCs were removed from the subsurface. Successful completion of this \$500,000 project allowed the client to sell the property for use as a retail distribution center for a major supermarket chain.
- ❑ ***Environmental Compliance Reviews (ECRs), United States Postal Service (USPS).*** Managed two full facility audits to support the USPS self-audit program. USPS vehicle maintenance facilities in Massachusetts and Vermont were audited for permit compliance, as well as federal, state, and local regulatory compliance. Compliance with USPS policy and procedure was also reviewed. The audits focused on environmental management issues including virgin/hazardous materials, wastewater/stormwater, USTs/ASTs, air discharges, and outstanding Notices of Violations (NOVs) and Notices of Non-compliance (NONs).

Affiliations

American Water Resources Association

Publications

Griffith, J.T., J.C. Clark, and M.J. Barvenik, 1994. Sparging in Heterogeneous Lower Permeability Soils Brings New Life to a Closed Facility. In Proceedings Of The NWWA Conference On Eastern Regional Groundwater Issues, Burlington, Vermont October 3-5, pp. 327-341.

Griffith, J.T., Farrick, S.P., and K.J. O'Reilly, 1990. Rapid Groundwater Sampling: a Proven and Often More Definitive Alternative to Soil Gas Surveys in New England. In Proceedings Of The NWWA Conference On Eastern Regional Groundwater Issues, Springfield Massachusetts October 17-19, pp. 331-341.

Alvarado, W.L., Stark, T.F., and J.T. Griffith, 1990. Connecticut's Aquifer Protection Act: How Will it Affect You? Manufacturers Mart, v.13, No. 7, pp. 7-10.

Griffith, J.T., Robbins, G.A. and T.M. Spittler, 1988. A New Method For Field Analysis of Soils Contaminated With Aromatic Hydrocarbon Compounds. In Proceedings Of The NWWA Conference On Eastern Regional Groundwater Issues. Stamford, Connecticut, September 27-29, pp. 223-248.

Robbins, G.A., Roe, V.D., Stuart, J.D., J.T. Griffith, 1987. Use of Headspace Sampling Techniques In The Field To Quantify Levels Of Gasoline Contamination In Soil And Groundwater. Proceedings of the NWWA conference on Petroleum Hydrocarbons and Organic Chemicals In Groundwater-Prevention, Detection, And Restoration. Houston, Texas, November 17-19, pp. 307-315.

Expertise

Environmental Assessments (Phase I and Phase II)
Environmental Litigation
Project Management
Electronic Data Management

Years of Experience

5

Education

B.S. Environmental Science and International Environmental Policy
Rutgers University, New Brunswick

Experience

Mr. Kim has 5 years of experience conducting the following types of environmental projects in states of Washington, Oregon, California, and the Central United States: site characterization, remedial investigation/feasibility study (RI/FS), site remediation, environmental compliance audits, and Phase I Environmental Site Assessments (ESAs).

- Conducted over 250 Phase I ESAs involving property transactions and other various types of environmental due diligence on the following types of sites: manufacturing/industrial facilities, port terminals, utility stations, transmitter towers, automobile repair facilities, residential developments, undeveloped parcels of land, and Tribal lands.
- Project Manager on various Phase I ESA projects involving tasks related to the oversight of client work products and deliverables, implementation of site recommended actions, budget management, and client proposal support.
- Performed fieldwork on hydrogeological investigations involving characterization of subsurface soil, groundwater, surface water, and sediments. Also performed groundwater monitoring, underground storage tank (UST) closure, and monitoring well installation.
- Provided consultation support to attorneys on environmental litigative cases involving expert testimonies, civil suits, environmental liens, consent decrees, and environmental indemnity.
- Conducted environmental audits and compliance assessments in accordance with the applicable municipal, state, and federal regulations at industrial and manufacturing facilities.
- Database management of laboratory data and assisted with analytical and statistical review/interpretation of various types of field parameters and chemical compounds. Tasks involving review of regulatory cleanup levels, background concentrations, allowable discharge concentrations, toxicity equivalent factor, exposure pathways, and human health effects for these chemical compounds were conducted.
- Performed surveys involving National Environmental Protection Act (NEPA) checklists and protocols related to the Federal Communications Commission (FCC) regulations involving modifications/construction of cellular antennas.
- Experienced in completing Environmental Checklists and State Environmental Policy Act (SEPA) applications for projects involving site

remediation. Assisted on Environmental Impact Statement (EIS) projects for issues pertaining to historical land use and hazardous material/waste surveys.

- Assisted on watershed planning and water rights projects for private and public clients addressing issues related to development, water use, and natural resource management.
- Conducted asbestos, radon, lead-based paint, and drinking water surveys at various structures proposed for building demolition/renovation.

Project Experience

- *Remedial cleanup action of a commercial dry cleaner facility, Everett, Washington.* Task manager for site characterization and implementation of remedial cleanup action program at a former dry cleaning facility. Site characterization included evaluating extent of soil and groundwater impacted by chlorinated solvents (VOCs). Assisted in implementation of cleanup action to remediate impacted soil and groundwater. The cleanup action was performed in accordance with the Washington State Department of Ecology Voluntary Cleanup Program (VCP).
- *Phase I ESA of a multi-tenant industrial complex, Kent, Washington.* Project manager for environmental due diligence of a 100-acre industrial complex, comprised of over 1-million sf of building space. Performed site reconnaissance to evaluate the potential impacts to the environmental subsurface involving various industrial operations including: plastic mold injection, lumber priming, metal fabrication, and commercial printing. Assisted with work plan for soil and groundwater investigation to address multiple zones of onsite environmental impairment.
- *Environmental litigation support of an industrial complex, Beaverton, Oregon.* Assisted in environmental litigation and expert testimony for a civil case involving contaminated drinking water from a local groundwater aquifer. Client consultation support on potential cleanup costs, civil suit action, and future re-development options.
- *Environmental due diligence of multiple parcels on a tribal land (Muckleshoot Indian Reservation), King County, Washington.* Project manager for site reconnaissance of multiple properties on the Muckleshoot Indian Reservation. Site reconnaissance was performed at the proposed White River Amphitheatre, former gravel quarry, and vacant parcels.
- *Phase I ESA of multiple commercial shopping center sites, San Diego County, Los Angeles County, and Orange County, California.* Performed site reconnaissance and assisted on client deliverables on over 100-site real estate acquisition.
- Database management of laboratory analytical data – performed an ongoing database management for a multi-year remedial investigation of a large industrial complex, using Microsoft Access. Primary duties

included tracking laboratory data involving various environmental parameters: laboratory analytical results, conventional field parameters, hydrogeologic measurements, data validation, statistical analysis summary, graphic illustration, and evaluating environmental background concentrations and cleanup action levels. Also assisted in preparing an online GIS-based interactive database system.

Research Skills

- Conducted site-specific research to characterize subsurface environmental conditions, such as local bedrock geology, hydrogeology, soil classification, wetland vegetation, and flood plain zones.
- Conducted site-specific regulatory file reviews at U.S. EPA's Freedom of Information Act (FOIA) Records Center and other various state and municipal agencies. The file reviews included records of Superfund sites, solid waste landfills, sites undergoing Corrective Action (CORRACTS), leaking USTs, and RCRA Small/Large Quantity Generator facilities.
- Reviewed various types of engineering plans, with emphasis on identifying utility and construction features related to potential environmental discharge pathways.

Certifications

40-Hour Hazardous Waste Operations Training (in accordance with 29 CFR 1910.120)
 24-Hour Asbestos Hazard Emergency Response Act (AHERA) Building Inspector
 8-Hour OSHA Hazardous Waste Operations Site Supervisor Training
 8-Hour Standard First Aid/Adult CPR Training
 PADI Open Water Scuba Diving