
Discipline Report

Hazardous Materials

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Magnolia Bridge Replacement
City of Seattle

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Executive Summary

The purposes of this report are to identify areas along the proposed Magnolia Bridge alignments where current or past property uses may have resulted in contamination, and to assess the potential environmental impact of those conditions on the project. Properties outside of proposed alignments that would likely be acquired as part of the project were also assessed.

Historic records for the project area along with local, state, and federal environmental databases were reviewed to identify former and current land uses that could result in contamination of soil and/or groundwater along the proposed alignments and/or on properties that the Seattle Department of Transportation (SDOT) may acquire for this project. Based on the historic and regulatory review findings, 413 potentially contaminated properties were identified in the project area. Many of the properties were subsequently eliminated as potential concerns because they: (a) had been cleaned up and/or contamination is unlikely to migrate toward the project area, (b) were not listed on databases that indicate contamination is present, and/or (c) were considered a sufficient distance from the project area so as not to pose a risk. After the screening, 35 validated sites were still considered to pose some risk to the project and were retained for further evaluation. These sites include metal manufacturers, junk and wrecking yards, auto repair shops, gasoline stations/bulk fuel distributors, print shops, laundries, bulk fuel terminals, railroads, and other industrial sites. They also included properties adjacent to the proposed alignments that store or have stored heating oil.

Each of the sites retained for further analysis has been ranked as a low, moderate, or high risk to the project based on its proximity to the project alignments, the type of contaminants that may be present, and whether SDOT anticipates acquiring the property. Most of the sites are considered a low risk to the project because the potential contamination is considered “reasonably predictable” (as defined in the Washington State Department of Transportation [WSDOT] Environmental Procedures Manual), the property is not adjacent/near the alignments, and/or the property is located downgradient of the project area. Nine properties are listed as posing a moderate risk due to: (a) their proximity to the project area and because potential contamination is not considered “reasonably predictable,” (b) the property is listed on a database indicating that contamination has been confirmed, and/or (c) contamination is suspected and SDOT anticipates acquiring the property. Two properties, the Port of Seattle property and the Port of Seattle Terminal 91 property, are identified as a high risk because they are on one or more of the alignments, have a history of industrial activities, and have known or suspected contaminants that are not considered reasonably predictable.

**Table 1
Summary Matrix – Hazardous Materials**

Build/No Action Alternative and Impact Type	Impacts	Mitigation Measures
Build Alternative		
Construction Impacts	SDOT anticipates acquiring right-of-ways and/or easements on parcels that may be contaminated with hazardous materials that are not considered reasonably predictable to remediate.	Avoid acquiring these parcels when possible. If acquiring these parcels is necessary, preliminary site investigations (PSIs) should be performed prior to purchase to determine the location and extent of contamination, if present.
	Contaminated soils and/or groundwater, resulting from contaminant migration from off-site properties and/or historic properties located in the vicinity of the alignment, may be encountered during project construction.	Perform PSIs in potentially contaminated areas where excavation is proposed to determine the location and extent of contamination, if present. Minimize the amount of contamination encountered by using driven piles instead of drill shafts for bridge foundations. Analyze contaminated soil and/or groundwater encountered to assess the regulatory classification of the soil/groundwater and the most cost-effective remediation strategy.
	Alternative C and Alternative D include demolishing buildings that may contain asbestos-containing building materials and/or lead-based paint.	Perform pre-demolition building surveys prior to building demolition to help limit the amount of materials that would need to be removed and placed in lined and/or hazardous waste landfills.
	Construction activities may generate hazardous wastes, which could be introduced to the environment.	Spill Prevention, Control, and Countermeasure (SPCC) plans, erosion and sedimentation control plans, and plans for handling and disposal of known and anticipated contamination would be developed that prescribe procedures, including best management practices, for use during construction.
	Workers and public could be exposed to hazardous materials.	Individuals on site would be apprised of the possibility of encountering known or predicted contaminants and the locations of potentially contaminated areas. A site-specific Health & Safety Plan that describes monitoring requirements, and the use of personal protective equipment, would be necessary. Workers would be trained in recognizing potential contamination and reporting procedures. Contractors who are likely to encounter known or unknown contamination would be required to demonstrate their ability to identify these situations and respond quickly to avoid contaminant migration to public areas.

Build/No Action Alternative and Impact Type	Impacts	Mitigation Measures
Operation Impacts	Vehicle accidents could result in spills of hazardous materials.	Stormwater and water quality treatment facilities would be constructed to collect and retain pollutants from traffic operations. These facilities would decrease the potential for off-site migration of contaminants.
Secondary Impacts	Contamination that otherwise would remain in place and potentially migrate may be discovered and may be cleaned up faster because of the project.	No mitigation proposed.
	Removing potential hazardous material release sources, such as USTs, before a release occurs may prevent contamination.	No mitigation proposed.
	Contaminated materials may be uncovered, allowing more direct exposure to the public.	Construction planning would include development of spill prevention, control, and countermeasure plans, erosion and sedimentation control plans, and plans for handling and disposal of known and anticipated contamination. Contractors who are likely to encounter contamination would be required to demonstrate their ability to identify these situations and respond quickly to avoid contaminant migration to public areas.
	Contamination may be spread as a result of construction. For example, new contamination migration pathways may be created during drilling activities and/or construction of underground utility corridors.	Construction planning would include development of spill prevention, control, and countermeasure plans, erosion and sedimentation control plans, and plans for handling and disposal of known and anticipated contamination. These plans would prescribe procedures, including best management practices, to minimize these potential secondary impacts.
Cumulative Impacts	There would likely be fewer contaminated sites in the project vicinity due to cleanup activities associated with the project.	No mitigation proposed.
No Action Alternative		
Construction Impacts	No impacts identified.	No mitigation proposed.
Operation Impacts	Vehicle accidents could result in spills of hazardous materials.	No mitigation proposed.

Build/No Action Alternative and Impact Type	Impacts	Mitigation Measures
Secondary and Cumulative Impacts	Contamination that would otherwise be cleaned up or controlled by the project would remain and could migrate.	No mitigation proposed.
	Potential hazardous materials release sources, such as USTs, would not be removed and future releases could occur.	No mitigation proposed.

Purpose

The purpose of this project is to replace the existing Magnolia Bridge structure, approaches, and related arterial connections with facilities that maintain convenient and reliable vehicular and non-motorized access between the Magnolia community and the rest of the City of Seattle. The bridge provides an important link to the Magnolia community in Seattle (see Figure 1 and Figure 2). Since the existing bridge also provides the only public vehicular access to the land between North Bay, also referred to as Terminal 91, Smith Cove Park, Elliott Bay Marina, and U.S. Navy property, the project purpose also includes maintenance of access to these areas.

Need

Structural Deficiencies

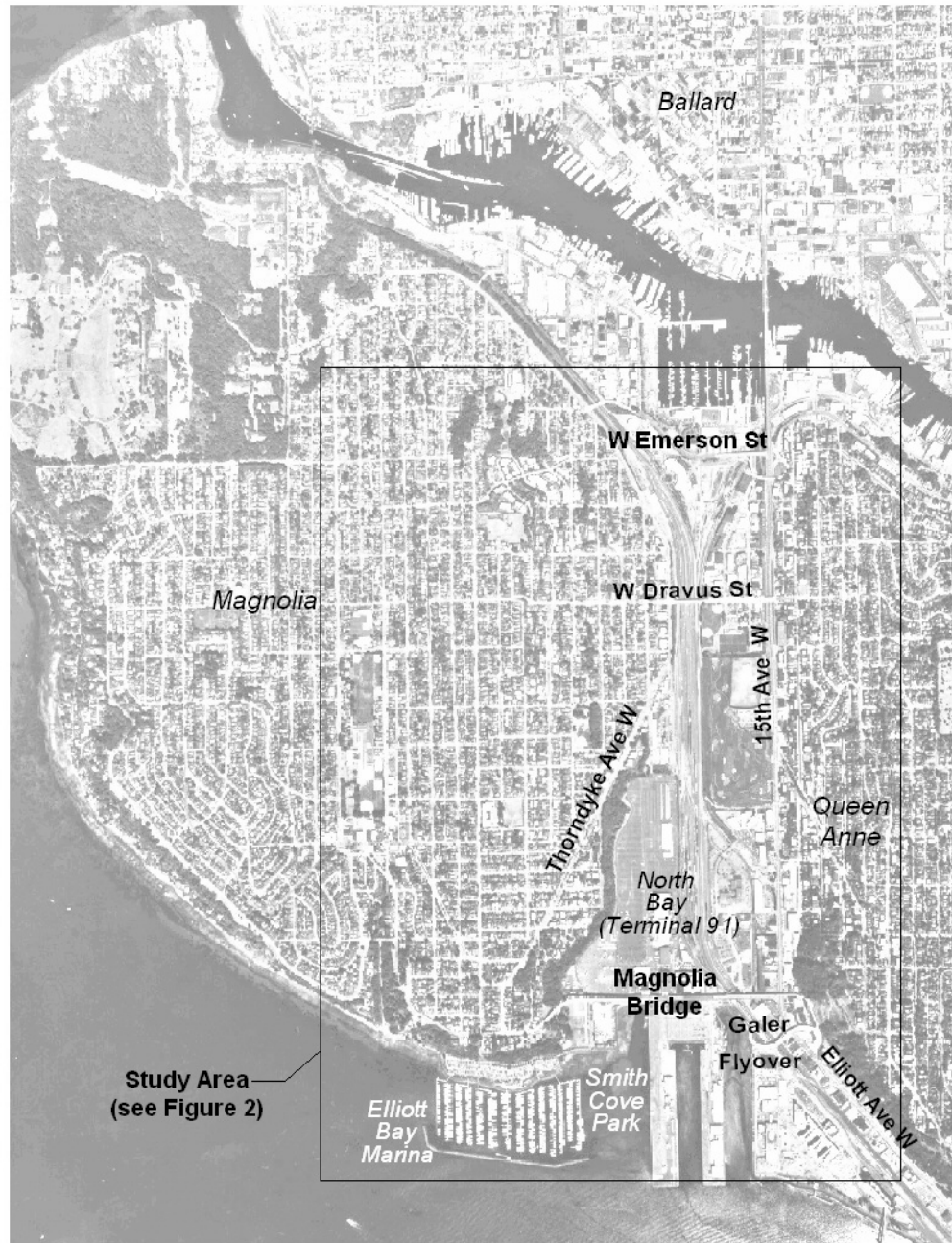
The City of Seattle has identified the Magnolia Bridge as an important bridge that should remain standing following a “design” seismic event (an earthquake with a peak ground acceleration of 0.3g that is anticipated to happen every 475 years and may measure 7.5 on the Richter Scale). Even with the repairs completed following the February 2001 earthquake, the existing bridge is susceptible to severe damage and collapse from an earthquake that is less severe than the “design” seismic event.

The original bridge was constructed in 1929 and has been modified, strengthened, and repaired several times. The west end of the bridge was damaged by a landslide in 1997, requiring repair and replacement of existing bridge columns and bracing, the construction of six additional supports, and a retaining wall north of the bridge to stabilize the bluff from further landslides. Repairs after the 2001 earthquake included replacement of column bracing at 27 of the 81 bridge supports. A partial seismic retrofit of the single-span bridge structure over 15th Avenue West was completed in 2001. The other spans were not upgraded.

Inspections of the bridge conclude that the concrete structure is showing signs of deterioration. The concrete is cracking and spalling at many locations, apparently related to corrosion of the reinforcing steel. The bridge requires constant maintenance in order to maintain its load capacity, but there does not appear to be any immediate load capacity problem. The existing foundations have insufficient capacity to handle the lateral load and uplift forces that would be generated by a “design” seismic event. The existing foundations do not extend below the soils that could liquefy during a “design” seismic event. If the soils were to liquefy, the foundations would lose their vertical load carrying ability and the structure would collapse.

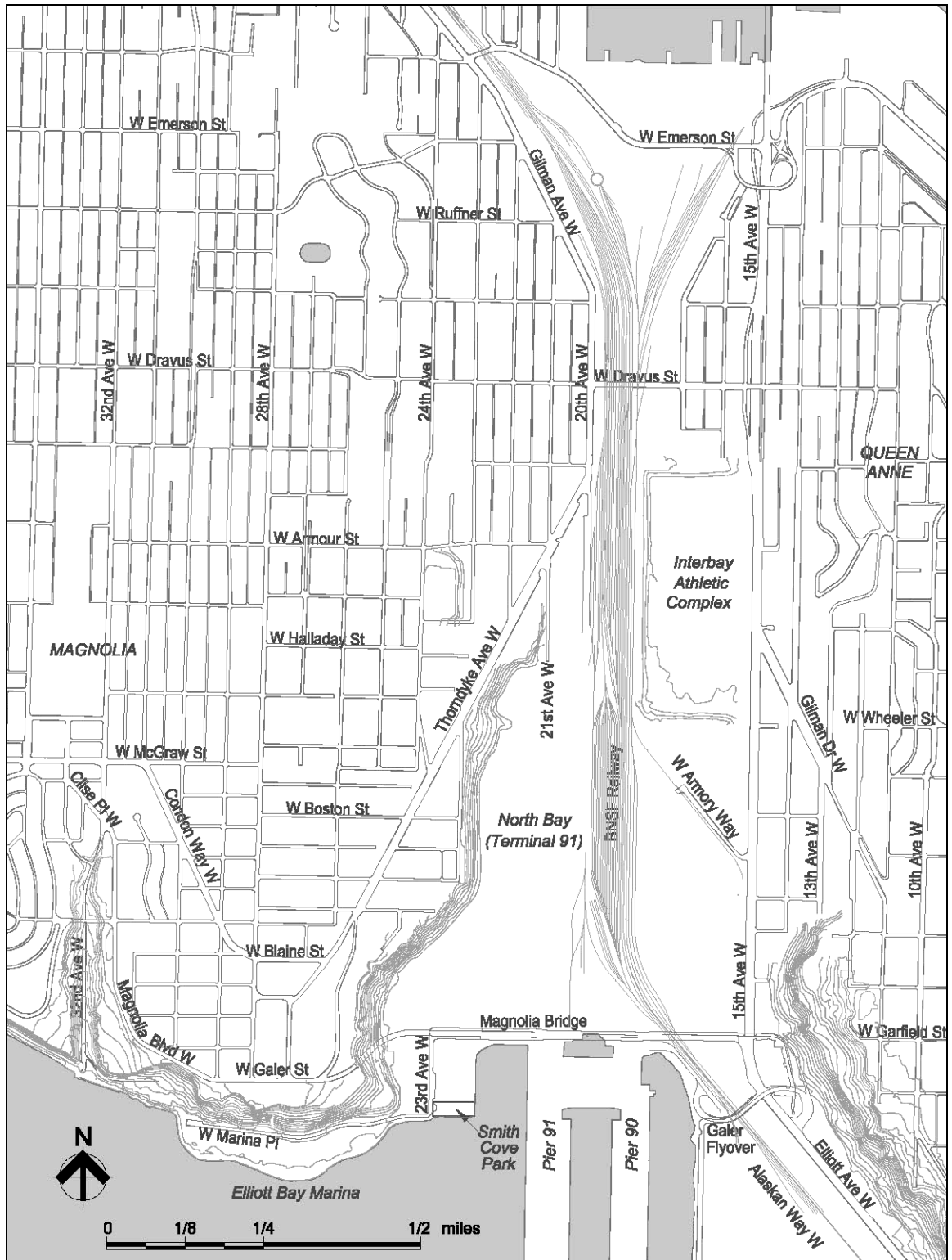
System Linkage

There are three roadway connections from the Magnolia community, of over 20,000 residents, to the rest of Seattle. As the southernmost of the three connections, the Magnolia Bridge is the most direct route for much of south and west Magnolia to downtown Seattle and the regional freeway system.



**Figure 1
Vicinity Map**

In meetings with the public and the Seattle Fire Department, the importance of this route for emergency services has been emphasized. The loss of use of this bridge in 1997 and again in 2001 demonstrated to the City that the remaining two bridges do not provide acceptable operation. During the bridge closure following the February 2001 earthquake, the City addressed community concerns about reduced emergency response time to medical facilities outside of Magnolia by 24-hour stationing of paramedics at Fire Station 41 (2416 34th Avenue West).



**Figure 2
Study Area**

Traffic Capacity

The three Magnolia community connections to the 15th Avenue West corridor are adequate for the present volume of traffic. Each of the three connections carries about 30 to 35 percent of the 60,100 daily vehicle trips (2001 counts) in and out of the Magnolia community. Loss of the use of the Magnolia Bridge for several months after the February 2001 earthquake, and in 1997 following the landslide at the west end of the bridge, resulted in lengthy 15 to 30 minute delays and increased trip lengths for many of the users of the Magnolia Bridge. These users were required to use one of the two remaining bridges at West Dravus Street and West Emerson Street. Travel patterns in the Magnolia community changed substantially resulting in negative impacts on local neighborhood streets. The increase of traffic through the West Dravus Street and West Emerson Street connections also resulted in congestion and delay for the regular users of these routes. Losing the use of any one of these three bridges would result in redirected traffic volumes that would overwhelm the capacity of the remaining two bridges.

Modal Interrelationships

The Magnolia Bridge carries three of the four local transit routes serving Magnolia and downtown Seattle destinations. The topography of the east side of Magnolia, East Hill, would make access to the 15th Avenue West corridor via the West Dravus Street bridge a circuitous route for transit. Use of the West Emerson Street connection to 15th Avenue West would add significant distance and travel time for most trips between Magnolia and downtown Seattle.

The Magnolia Bridge has pedestrian facilities connecting the Magnolia neighborhood to Smith Cove Park and Elliott Bay Marina as well as to 15th Avenue West/Elliott Avenue West. These facilities need to be maintained. The Elliott Bay multi-use trail connects Magnolia with downtown Seattle through Myrtle Edwards Park. The trail passes under the Magnolia Bridge along the west side of the BNSF rail yard, but there are no direct connections to the bridge.

Bicycle facilities on the Magnolia Bridge need to be maintained or improved. Even with the steep (about 6.3 percent) grade, bicyclists use the Magnolia Bridge in both directions. There are no bike lanes on the bridge, so bicyclists use the traffic lanes and sidewalks. Once bicyclists cross the bridge, they must either travel with motor vehicles on Elliott Avenue West or find a way back to the Elliott Bay Trail using local east-west streets such as the Galer Flyover.

Transportation Demand

The existing Magnolia Bridge provides automobile access for Port of Seattle North Bay (Terminal 91) to and from the Elliott Avenue West/15th Avenue West. Truck access between Terminal 91 and Elliott Avenue West/15th Avenue West is accommodated via the Galer Flyover. Future planned expansion of the Amgen facility on Alaskan Way West and redevelopment of underutilized portions of North Bay and other areas of Interbay will increase demand for traffic access to the Elliott Avenue West/15th Avenue West corridor. The Port of Seattle has a master planning process underway (July 2003) for its North Bay property (Terminal 91) and the Washington National Guard property east of the BNSF Railway between West Garfield Street and West Armory Way. This area contains 82 acres available for redevelopment. There are also 20 or more acres of private property available for

redevelopment east of the BNSF Railway between West Wheeler Street and West Armory Way. Redevelopment of the North Bay property will include public surface streets with connections to the replacement for the Magnolia Bridge. Forecasts of future (year 2030) traffic demand indicate that the access provided by the Galer Flyover and West Dravus Street would be inadequate. The capacity provided by the existing Magnolia Bridge or its replacement would also be needed.

Legislation

Seattle Ordinance 120957, passed in October 2002, requires the Magnolia Bridge Replacement Study: identify possible additional surface roads from Magnolia to the waterfront (avoiding 15th Avenue West and the railroad tracks); obtain community input on the proposed roads; and identify the cost for such road and include it in the total cost developed in the Magnolia Bridge Replacement Study.

Description of Alternatives

An alignment study process was implemented to help identify the specific bridge replacement alternatives to be studied in the EIS. Twenty-five concepts were developed and screened against the project goals and objectives. This resulted in nine alignment alternatives, identified as A through I, that merited further analysis. These nine went through an extensive public review and comment process as well as project screening criteria and prioritization. Initially, the top four priority alternatives, A, B, D, and H, were identified to be studied in the EIS. Early on, Alternative B was eliminated because it became clear that it violated City shoreline policies and Federal section 4(f) criteria. Upon detailed traffic analysis Alternative H was eliminated because two key intersections were predicted to function at a level of service F and could not be mitigated. The next priority, Alternative C, was then carried forward for analysis in the EIS.

Independent of this project, a new north-south surface street will be constructed on Port of Seattle property connecting 21st Avenue West at the north end of North Bay with 23rd Avenue West near Smith Cove Park. In addition, a southbound ramp will be added to the Galer Flyover to accommodate eastbound to southbound Elliott Avenue West traffic movements. The Galer Flyover ramp has been identified as a needed improvement for expected future development of property west of the railroad tracks. New surface streets through the Port of Seattle property will be located through the Port's master planning process for the North Bay property. The north-south surface street and ramp are assumed to exist in any build alternative, but are not part of this environmental process.

Typical sections and plans of the build and no-build alternatives are located at the end of this section.

No Build Alternative

The No Build Alternative, shown in Figure 3 and Figure 5, would maintain the existing bridge structure in place with the existing connections at the east and west ends. Long term strategies for maintaining the existing structure would be required for the No Build alternative. To keep the existing bridge in service for over ten years, the following would need to be accomplished:

- An in-depth inspection of the bridge would be required to determine needed repairs and a long-term maintenance program.
- Concrete repairs would be required. These repairs could include injection of cracks with epoxy grout, repair of spalled concrete, and replacement of deficient concrete and grout.
- Preservation measures to slow corrosion of the reinforcement would be required. These measures could include a cathodic protection system.
- Any structural elements that lack the capacity to carry a tractor-trailer truck with a 20-ton gross trailer weight would need to be identified, modeled, and strengthened.

Alternative A

Alternative A would replace the existing bridge with a new structure immediately south of the existing bridge as shown in Figure 4 and Figure 6. The alternative would construct a signalized elevated intersection (Alternative A – Intersection) in the bridge’s mid-span to provide access to the waterfront and the Port of Seattle North Bay property from both the east and the west. Connections at the east and west ends of the bridge would be similar to the existing bridge.

An optional half-diamond interchange (Figure 7 Alternative A - Ramps) could be constructed in lieu of the elevated intersection to provide access to the waterfront and the Port of Seattle North Bay property to and from the east only.

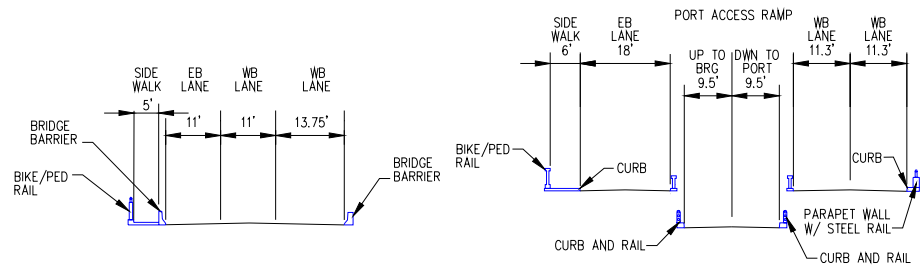
Alternative C

Alternative C would provide 2,200 feet of surface roadway within the Port of Seattle North Bay property between two structures as shown in Figure 4 and Figure 8. The alternative would descend from Magnolia Bluff on a structure running along the toe of the slope. The alignment would reach the surface while still next to the bluff, before turning east to an intersection with the north-south surface street. The alignment would continue east from the intersection, turning south along the west side of the rail yard. The alignment would rise on fill and structure, turning east to cross the railroad tracks and connect to 15th Avenue West.

Alternative D

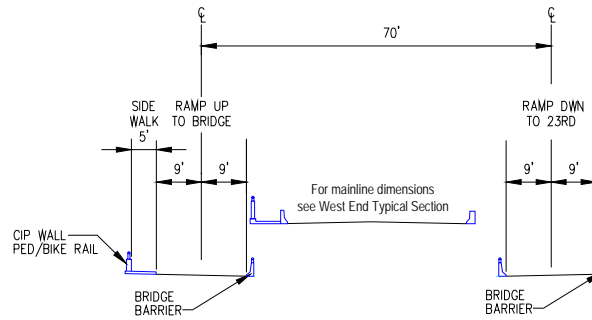
Alternative D would construct a new bridge in the form of a long arc north of the existing bridge, as shown in Figure 4 and Figure 9. Connections at the east and west ends of the bridge would be similar to the existing bridge. This alternative would construct a signalized elevated intersection (Alternative D – Intersection) in the bridge mid-span to provide access to the waterfront and Port of Seattle North Bay property from both the east and the west.

An optional half-diamond interchange (Figure 10 Alternative D - Ramps) could be constructed in lieu of the elevated intersection to provide access to the waterfront and the Port of Seattle North Bay property to and from the east only.

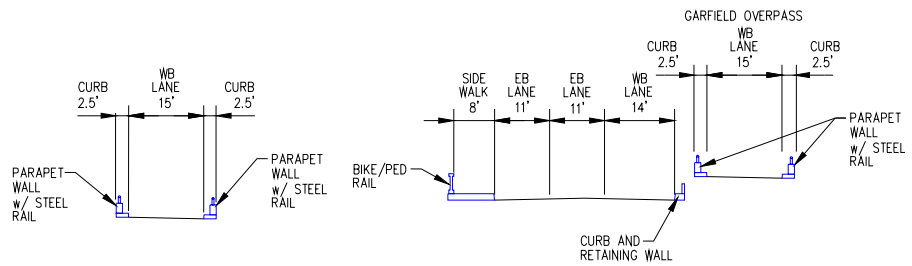


Bridge West End

Ramp to Port Access



Ramps to 23rd Avenue West

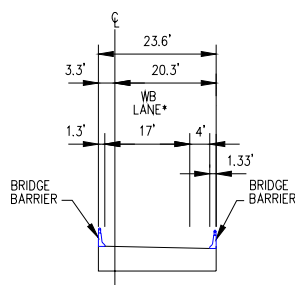
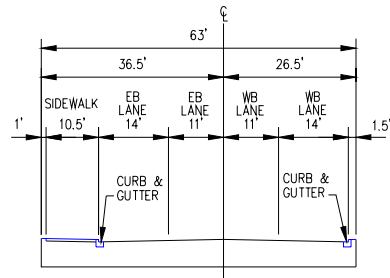
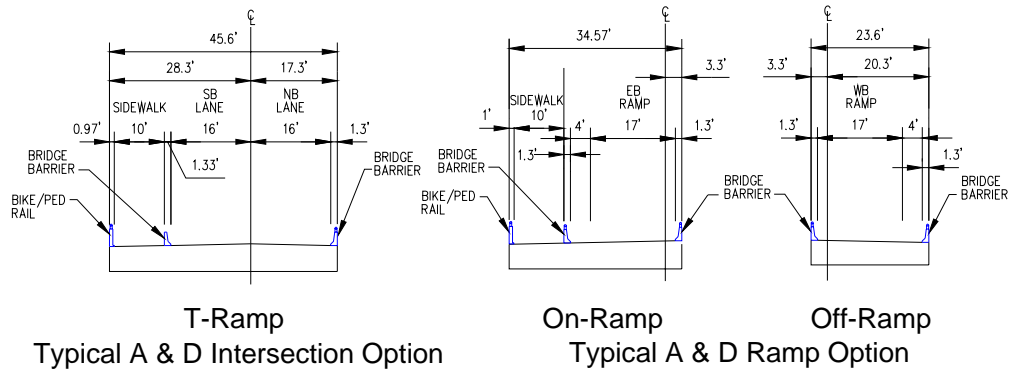
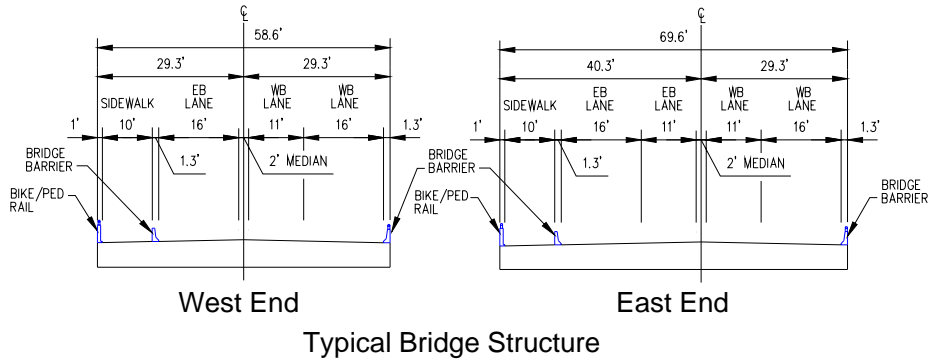


Garfield Overpass

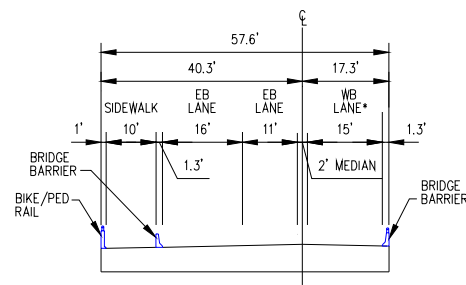
15th Avenue West Connection
Eastbound Off-Ramp
Westbound On-Ramp

NOTE:
Dimensions are approximate and obtained from construction plans and aerial photographs. The information shown has not been field verified.

Figure 3
Typical Sections – No Build Alternative



* 15' Alternative C
 19' Alternative D



Eastbound Off-Ramp
Westbound On-Ramp
 * 16' Alternative D

Figure 4
Typical Sections – Build Alternatives

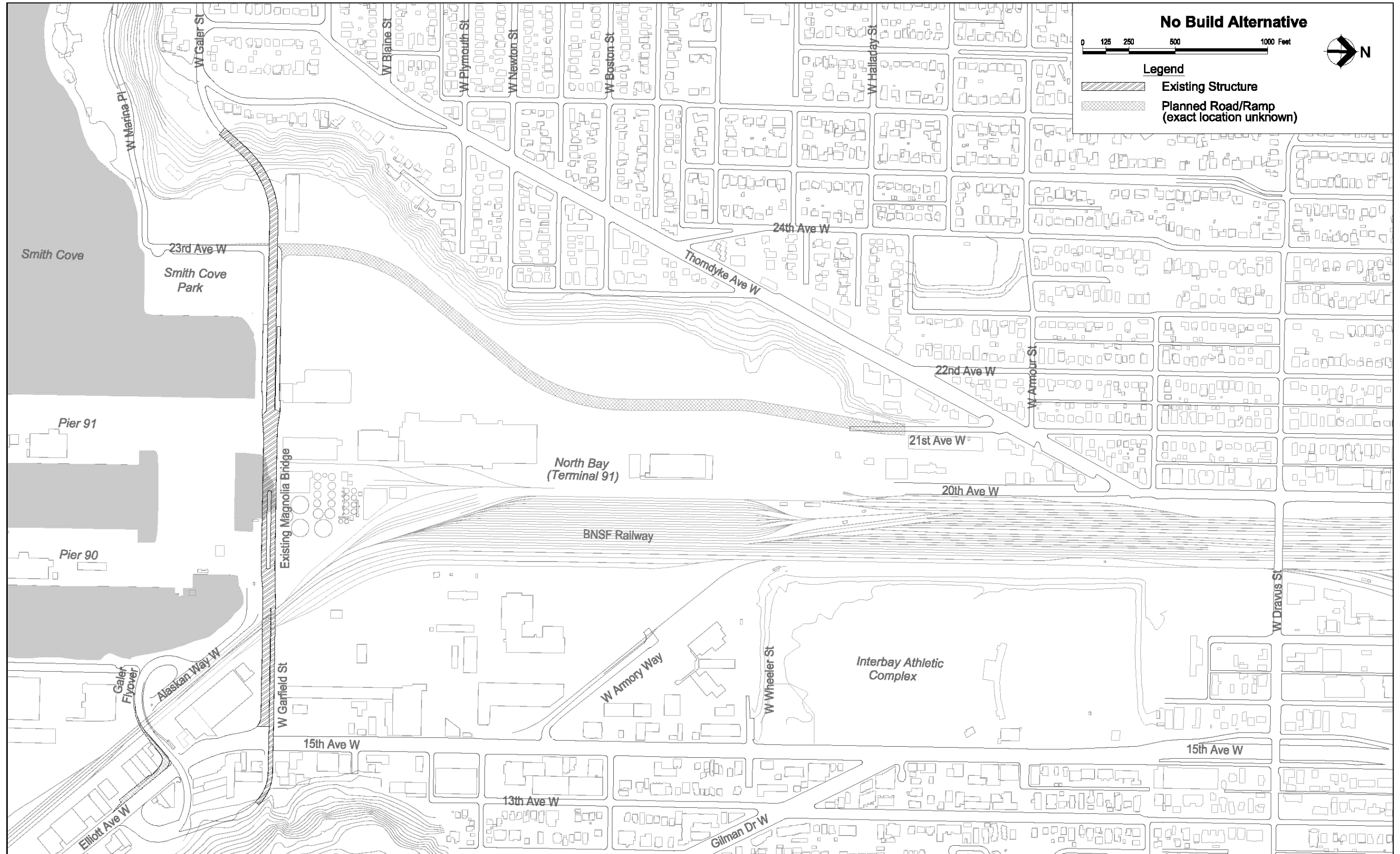


Figure 5 No Build Alternative

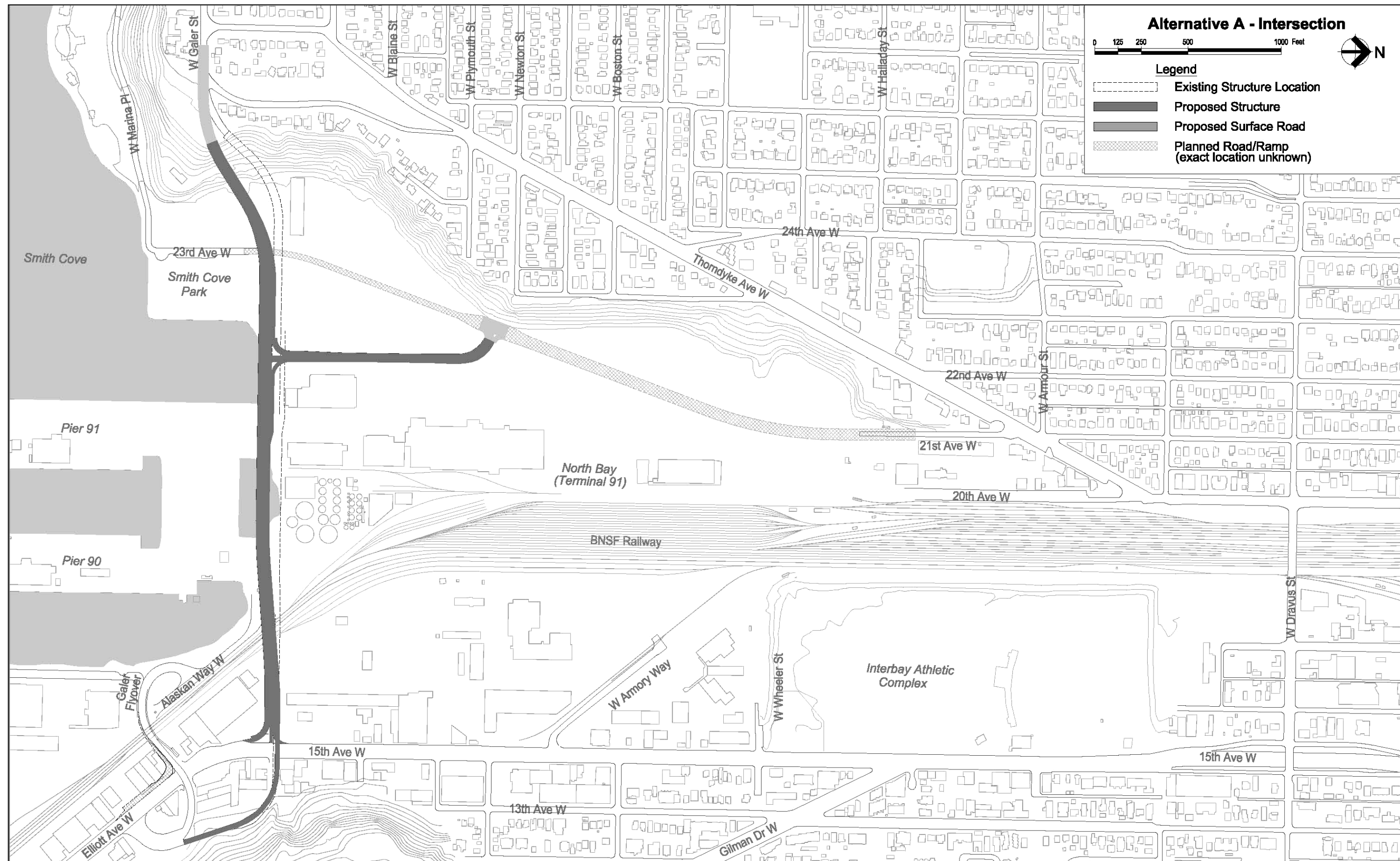


Figure 6 Alternative A - Intersection

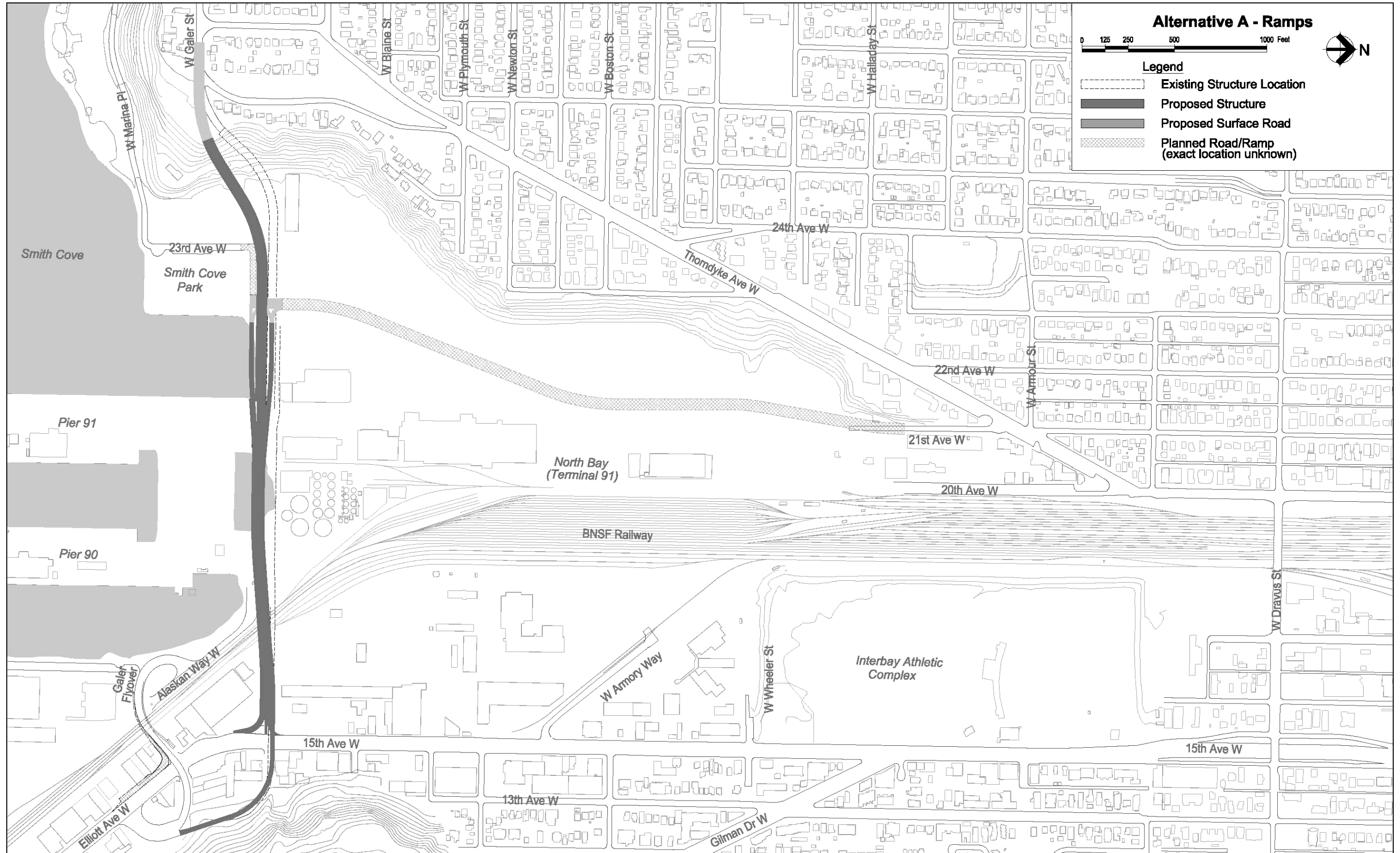


Figure 7 Alternative A - Ramps

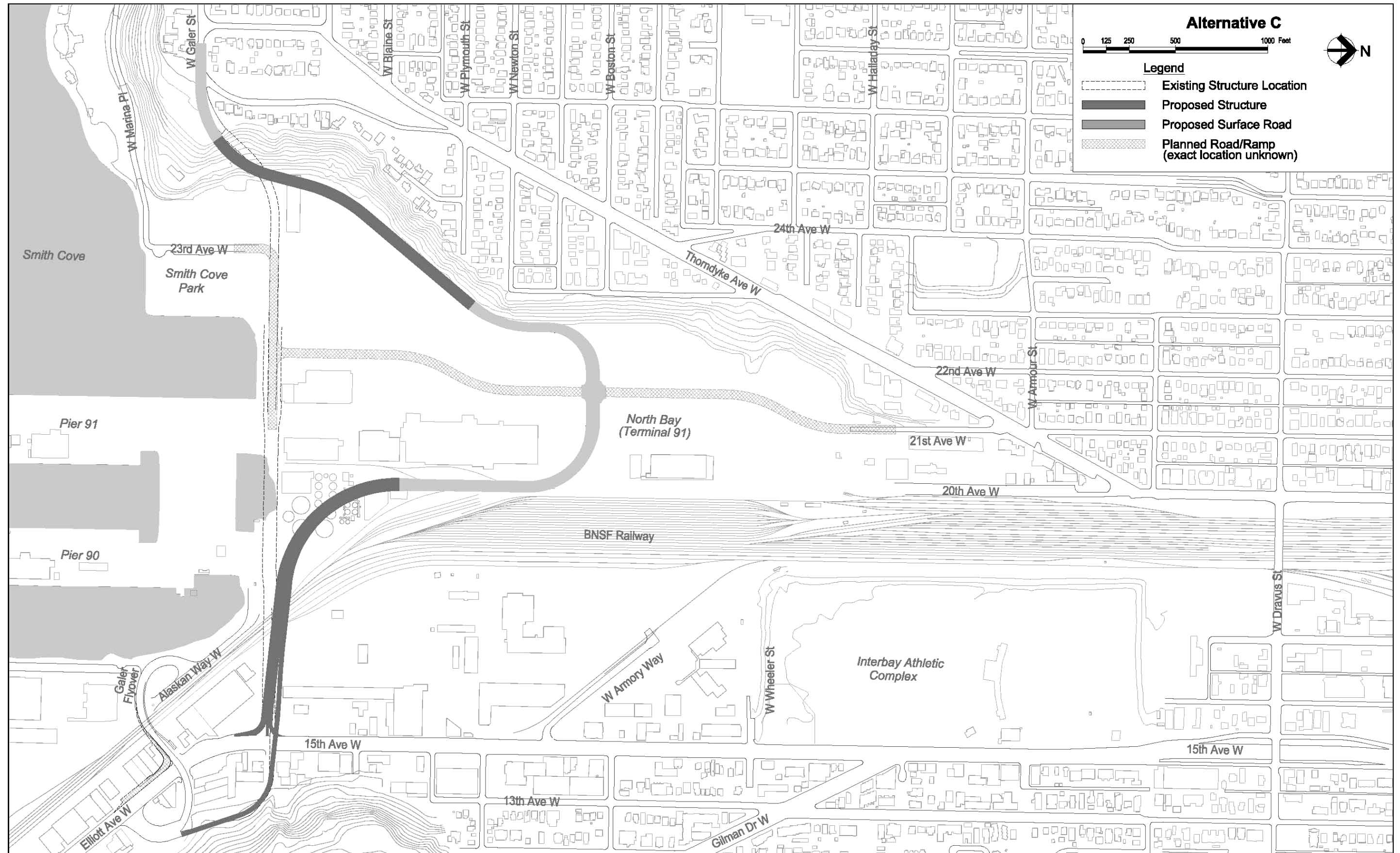


Figure 8 Alternative C

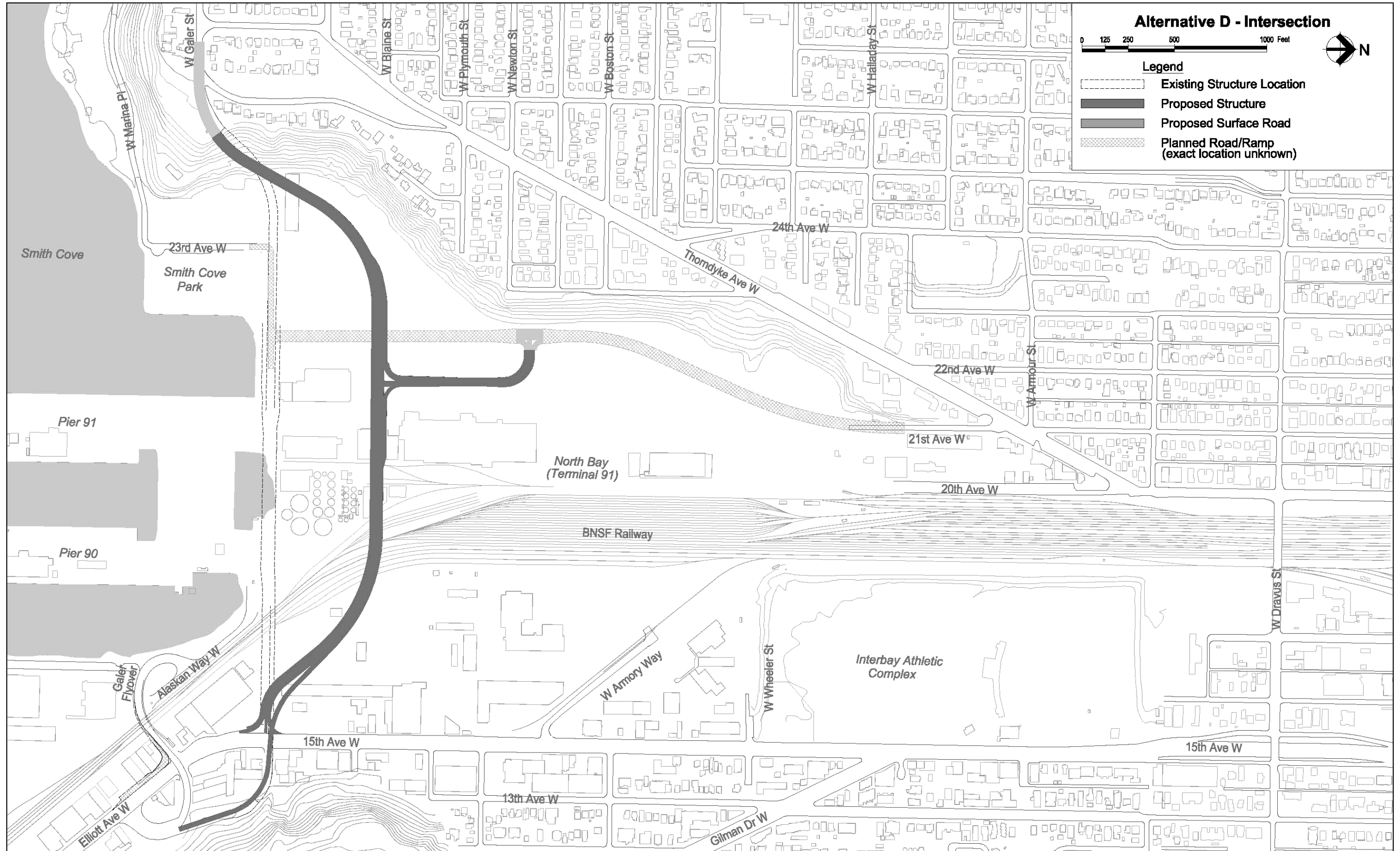


Figure 9 Alternative D - Intersection

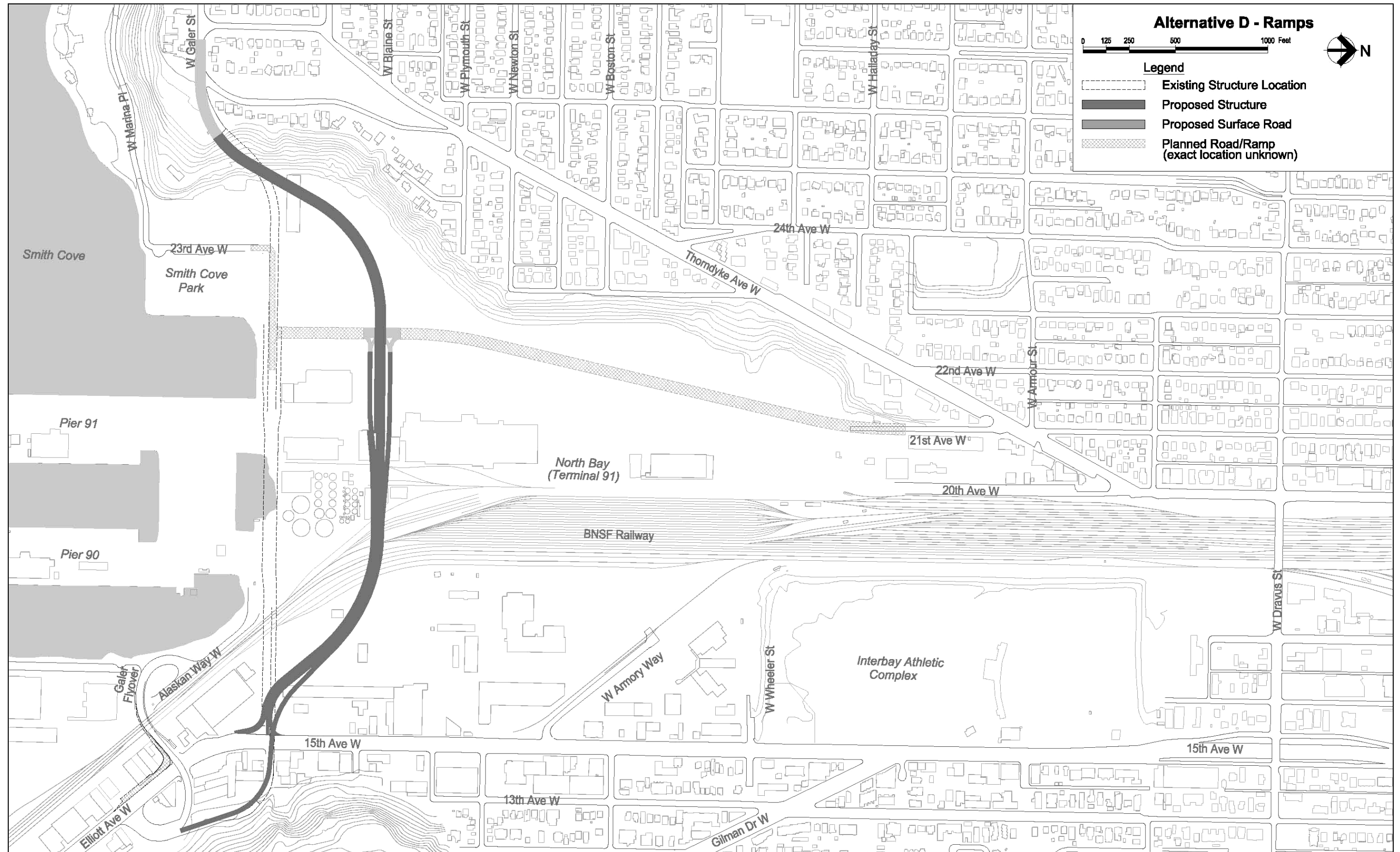


Figure 10 Alternative D - Ramps

Project Description

The purpose of this project is to replace the existing Magnolia Bridge Structure, approaches, and related arterial connections with facilities that maintain convenient and reliable vehicular and non-motorized access between the Magnolia community and the rest of the City of Seattle. Four alternatives, the No Build Alternative and Alternatives, A, C, and D, have been evaluated. The No Build Alternative would maintain the existing bridge structure in place with the existing connections at the east and west ends. All of the build alternatives would connect to West Galer Street at their west ends, similar to the existing alignment. Alternatives A and C would use the existing Magnolia Bridge on-ramp alignment just east of 15th Avenue West. Alternative D would extend north of the existing on-ramp alignment but would merge with 15th Avenue West in the same location.

The majority of Alternative A would run parallel to, and be within about 50 feet south of, the existing bridge structure. Alternatives C and D would run approximately 2,160 feet and 570 feet north of the existing bridge, respectively. A more detailed description of the alternatives is located in the Descriptions of Alternatives Section.

Methodology

The objectives of the Hazardous Materials Discipline Report are to identify and assess land uses in the project vicinity that have the potential to contain or create hazardous wastes, and to assess the environmental impacts of the proposed project design. Since the proposed project primarily would be constructed within the existing alignment right-of-way, the focus of this study was to identify sites from which migration of contaminants onto the right-of-way would be a reasonable possibility. Properties that would likely be affected or acquired as part of the project were also assessed.

Using historical information resources, including King County Assessor records, aerial photographs, and Polk City directories, a land use profile was developed for the project study area. Current land uses were determined by windshield surveys of the three alignments and adjacent areas. Site geology for the final document for this report would be summarized from the *Geology and Soils Discipline Report* (Shannon & Wilson, 2004). Federal and state databases were researched to identify properties with records of environmental enforcement; past or present underground storage tanks (USTs); and generation, transportation, and storage of hazardous materials. Washington State Department of Ecology (Ecology) files were reviewed for recorded contaminated sites and leaking underground storage tank (LUST) sites that could pose some risk to the project.

Known and potentially contaminated sites identified during the historic and regulatory records review were screened based on the type of contaminant, their distance from the project area, and the type of state and/or federal database that they were listed under (if any). After the screening process, validated sites were

identified as “reasonably predictable” or “substantially contaminated” based on the Federal Highway Administration (FHWA) definitions (see Validated Sites discussion) on page 23.

Validated sites are discussed in the Affected Environment Section of this report. Each site is ranked as a low, moderate, or high risk based on whether the site was considered “reasonably predictable” or “substantially contaminated,” whether contamination was known to exist on the property or only suspected, and whether Seattle Department of Transportation (SDOT) anticipates buying the property.

Historical Records Review

Historic records were reviewed for the Magnolia Bridge Replacement Project study area to identify previous property uses in the project area that are commonly associated with generation, storage, or transportation of hazardous materials. Historical review was limited to the proposed construction limits of the three alignments and immediately adjacent areas.

Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps provide an historic record of building footprints, site addresses, and types of site use. Sanborn Fire Insurance Maps were reviewed for the following years: 1917, 1930, 1950, and 1969.

Polk City Directories

Polk City Directories identify businesses by name, type of business, and address. These directories can be searched using the address and are an excellent source of information regarding area development and use over time. Directories for the years 1938, 1944, 1951, 1956, 1960, 1965, 1970, 1975, 1980, 1985, 1989, and 1996 for the City of Seattle were reviewed at the Seattle Public Library.

Aerial Photographs

Black and white aerial photographs for the project area, dated 1936, 1946, 1956, 1960, 1969, 1974, 1980, 1985, 1990, 1995, 1999, and 2002, were obtained from Walker and Associates. Photographs were examined to provide general information regarding the historical and current development and industry along the corridor.

King County Assessor Records

Assessor records provide information regarding building construction dates, heat sources, presence of underground tanks, site use, and ownership. Current assessor records were obtained at the assessor’s office in Seattle, Washington. Archived assessor records were obtained at the Puget Sound Archives in Bellevue, Washington.

Historic Records Review Findings

The historic records review identified 209 potentially contaminated sites in or near the project alignments, as compiled in Appendix A. These sites include residential properties that have been heated with oil as well as commercial and industrial properties that are considered likely to have generated and/or stored hazardous materials. Based on the age of buildings on properties that may be acquired,

asbestos-containing building material (ACBM) and/or lead-based paint (LBP) is likely present.

Windshield Survey of the Project Corridor

A windshield survey was performed to identify any current uses in the project corridor likely to involve the use, treatment, storage, or disposal of hazardous materials and to verify the location of listed and orphan sites associated with the regulatory review, where possible. All observations were from public areas.

Findings from the windshield survey are included in the Study Area Summary of the Affected Environment Section.

Regulatory Review

Research to identify former and current land uses that could result in the contamination of soil and/or groundwater on or adjacent to the three alignments consisted of a review of both federal and state databases. The objective of this review was to identify and document reported releases of hazardous or toxic materials to the environment and to identify commercial businesses and industries that use, generate, store, transport, and dispose of regulated hazardous materials in the normal course of business.

Environmental Data Resources, Inc. (EDR, 2003) was subcontracted to conduct a search of available agency databases, including those of the Environmental Protection Agency (EPA) and Ecology, for known and suspected contaminated sites within a one-mile radius of the three alternatives. Shannon & Wilson reviewed the EDR report to determine sites with multiple names or addresses and/or sites listed under multiple databases. The sites that were listed under more than one name, address, and/or database were compiled, where possible, and listed as one name under the database of most concern.

EDR identified and mapped 95 sites within one mile of the study area that are listed on federal and/or state environmental databases. EDR also identified 109 sites on an orphan sites list that were listed on federal and/or state environmental databases but were not mapped. Shannon & Wilson checked the location of the orphan sites, many of which are outside of the one-mile search radius, or correspond to sites mapped elsewhere in the EDR report. The rest of the orphan properties may be located within one mile of the project area, but their locations could not be identified. The complete EDR report is included as Appendix B.

The information provided in the federal and state databases varies considerably. Some databases report when releases have occurred and others only indicate whether hazardous substances are used. Consequently, they also vary considerably in the degree to which they provide indicators of where contamination has, may have, or potentially could occur in the future. Databases were ranked as follows (from most concern to least concern): National Priority List (NPL), Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), CERCLIS-No Further Action Planned (CERC-NFRAP), Confirmed and Suspected Contaminated Sites List (CSCSL), Solid Waste Facility/Landfill (SWF/LF), Leaking Underground Storage Tank (LUST), Underground Storage Tank (UST), Resources Conservation and Recovery Information System (RCRIS), Washington State Independent Cleanup Report (WA ICR), Emergency Response

Notification System (ERNS), Hazardous Materials Information Reporting System (HMIRS), Facility Index System (FINDS), and FTTS (pesticides and other toxic substance tracking system). These databases were searched by EDR and are explained in more detail below.

Federal Databases

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

This list contains data on potentially hazardous waste sites that have been reported to the United States Environmental Protection Agency (EPA) by states, municipalities, private companies, and private persons. Sites listed in CERCLIS are either proposed to be included or are currently on the National Priority List (NPL) as well as sites currently in the screening or assessment phase of the investigation for possible inclusion on the NPL. This list also includes sites for which no further remedial action is planned (NFRAP). Four CERCLIS-NFRAP sites were identified within one mile of the study area.

The National Priority List (NPL)

The NPL is a subset of CERCLIS that identifies sites for priority cleanup under the Superfund program and may encompass large areas. There are no NPL sites within one mile of the study area.

Resource Conservation and Recovery Information System (RCRIS)

This list includes selective information on sites that generate hazardous waste or that transport, store, treat and/or dispose (TSD) of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). RCRIS also identifies TSD sites with RCRA corrective action activity (CORRACTS). There is one TSD facility listed within one mile of the study area. A total of 37 sites that are reported as RCRIS-Small Quantity Generators (SQG) were identified within one mile of the project area. Four additional RCRIS-SQGs are listed on the on the EDR orphan sites list within one mile of the project area. Three RCRIS-Large Quantity Generator (LQG) sites were also identified within one mile of the project area.

Emergency Response Notification System (ERNS)

The ERNS records and stores information on reported releases of oil and hazardous substances. ERNS listings often consist of off-shore spills or spills that occur in road right-of-ways, and may not be associated with a specific property. There are 40 ERNS sites mapped by EDR within one mile of the study area; however, one ERNS property listed on the EDR orphan sites list is within one mile of the project area. Eight additional ERNS sites were listed in the EDR orphan sites list but could not be mapped due to incomplete addresses.

Hazardous Materials Information Reporting System (HMIRS)

The HMIRS database contains a record of hazardous material spill incidents reported to the U.S. Department of Transportation; these incidents are not always associated with a specific property. There is one HMIRS site mapped by EDR within one mile of the study area.

Facility Index System/Facility Identification Initiative Program Summary Report (FINDS)

The FINDS database contains both facility information and cross references to other databases that may contain more detailed information. A total of 41 FINDS sites were mapped by EDR within one mile of the project area. There are also nine FINDS sites on the orphan sites list, three of which were located within one mile of the project area.

FIFRA/TSCA Tracking System (FTTS)

The FTTS database tracks administrative cases, pesticide enforcement actions, and compliance activities related to FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act), TSCA (Toxic Substances Control Act), and EPCRA (Emergency Planning and Community Right-to-Know Act). One FTTS site was identified within the search area.

Washington State Databases

Confirmed and Suspected Contaminated Sites List (CSCSL)

This list includes state hazardous waste site records and is Washington's equivalent to CERCLIS. EDR mapped 17 sites within one mile of the project corridor. Four additional CSCSLs were listed on the EDR orphan sites list but appear to be greater than one mile from the project area.

Hazardous Sites List (HSL)

The HSL is a subset of the CSCSL. It includes sites that have been assessed and ranked using the Washington Ranking Method (WARM). None of the CSCSL sites above are listed on the HSL.

Solid Waste Facility/Landfill Database (SWF/LF)

SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. 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. EDR mapped no SWF/LF sites within one mile of the project corridor. Thirty-eight additional SWF/LF sites were listed on the EDR orphan sites list, but were either outside the one-mile search area or could not be mapped due to an incomplete address.

Leaking Underground Storage Tank (LUST) database

LUST records contain an inventory of reported leaking UST incidents along with cleanup status and the medium (soil or groundwater) affected. EDR mapped 17 LUST sites within one mile of the study area. One additional LUST property was listed on the EDR orphan sites list but was located outside of the one-mile search area.

Underground Storage Tank (UST) list

This list identifies all properties that have USTs registered with Ecology. Information includes operational status, removal status, and substances stored. There are 34 UST sites within one mile of the study area included on the UST list.

One additional UST property was listed on the EDR orphan sites list but appears to be outside of the one-mile search area.

Washington Site Register of Independent Cleanup Reports (WA ICR)

These are remedial action reports Ecology has received from either the owner or operator of the sites. These independent actions have been conducted without Ecology oversight or approval and are not under an order or decree. EDR mapped 20 WA ICR sites within one mile of the study area. Thirty-six additional WA ICR sites were listed on the EDR orphan sites list. Four of these sites were within one mile of the project area, but were all identified elsewhere in the EDR report under a different site name. The other thirty-two orphan sites are outside of the one-mile search area.

Review of Port of Seattle Analytical Data

Soil and groundwater analytical data from the Port of Seattle Tank Farm (Terminal 91), located adjacent to and north of the existing Magnolia Bridge, was provided for this study. The data were reviewed to evaluate the potential for impacts to construction, including comparisons to Model Toxics Control Act (MTCA) Method A criteria.

Ecology File Review

Based on information from the EDR federal and state environmental database review, files for several of the CERCLIS, SWF/LF, CSCSL, LUST, and WA ICR listed properties were reviewed at Ecology to evaluate the potential for listed sites to impact the study area and planned project. Files for the RCRIS-SQG, FINDS, and UST properties were not reviewed because the properties were not included on other lists that indicate soil and/or groundwater contamination is present. The ERNS, HMIRS, and FTTS properties were not reviewed because they indicated a one-time spill and/or because they were not included on other lists that would indicate the presence of soil and/or groundwater contamination.

Site Screening

Several of the sites identified by the database search and historical review were eliminated as having a potential impact to the project, based on the following screening criteria:

- (1) Sites listed only on the RCRIS, FINDS, and/or FTTS databases were eliminated. Inclusion on these lists indicates that a site uses or generates regulated materials as part of their business practice but gives no indication of on-site soil or groundwater contamination.
- (2) Sites listed only on the ERNS or HMIRS database were eliminated. Inclusion on these lists indicates that a one-time spill has occurred. These sites are not included on other lists that indicate the presence of soil and/or groundwater contamination.
- (3) Sites that are neither in nor adjacent to the alignment alternatives where the only potential source of contamination is a known or suspected residential heating oil

UST were eliminated. The low mobility of heating oil makes it unlikely that contamination could migrate to the right of way.

- (4) Sites listed on the UST database that were located greater than 1/8 mile from the alignment alternatives were eliminated if they were not included on other lists that would indicate soil and/or groundwater contamination is present. Commercial and industrial sites where the USTs were installed after 1980 were generally eliminated because tank tightness testing regulations came into effect by 1980 and significant soil/groundwater contamination is unlikely.
- (5) Because groundwater is the primary method of transport for potential contaminants from off-site locations to the project corridor, LUST sites located greater than 1/4 mile away from the alignment alternatives were eliminated if there was no indication of groundwater contamination.
- (6) Sites were eliminated if file review indicated that the property had been cleaned up and/or contamination was not migrating off site toward the project area, and the property was not adjacent to the alignment alternatives.

Validated Sites

The site screening resulted in the identification of 35 “validated sites” that appear to pose some risk to the project. These sites are listed in Table 2 and are shown on Figures 11, 12, and 13 (with the exception of validated site #35, the Interbay Old Landfill Property, which is located too far north to be incorporated on the figures). These sites are considered “validated” either because current or historic practices at the site have been associated with hazardous waste use or storage, or they have a history of contamination that has a potential to affect the proposed project. These properties, discussed in greater detail in the Affected Environment section on page 23, have been labeled “reasonably predictable” or “substantially contaminated” based on the following Federal Highway Administration (FHWA) definitions (WSDOT, 1997):

“Reasonably predictable” sites are those where the nature of potential contamination is known based on existing investigation data, or where it can be reasonably predicted based on observations of the site, and/or experience at similar sites, and/or best engineering judgment. The “reasonably predictable” sites along the project corridor are typically small to medium in size, the potential contaminants are not extremely toxic or difficult to treat, and probable remediation approaches are straightforward. Examples of sites that are generally classified as “reasonably predictable” are gasoline stations, auto repair shops, most USTs, LUSTs, aboveground storage tanks (ASTs), small manufacturing operations, and buildings with asbestos and materials containing lead paint.

“Substantially contaminated” sites would create a major liability for WSDOT (or in this case, SDOT), either in construction liability or by virtue of acquiring all or a portion of the site. If the site has undergone a detailed investigation and a feasibility study, the impacts and remediation costs may have already been predicted. Nonetheless, the site would be identified as substantially contaminated because of its substantial impact. Other sites are considered substantially contaminated sites because they are not reasonably predictable. In general, these sites possess a potential for substantial soil, water, and/or sediment contamination, and/or the information necessary to predict remedial costs is lacking, and the contaminants are

persistent and/or expensive to manage. The site may be contaminated over a large area with a single contaminant or over a smaller area with multiple contaminants. Substantially contaminated sites are typically large and/or have large volumes of contaminated material, and/or have a long history of industrial or commercial use. Examples of sites that could be classified as “substantially contaminated” include wood products facilities, wood treating operations, metal plating, large bulk petroleum facilities, refineries, hazardous waste treatment facilities, or other sites that use(d) large amounts of contaminating materials. Other sites are considered substantially contaminated sites because they do not fit in the reasonably predictable category.

**Table 2
Validated Sites**

Site No.	Site Name	EDR#	Site Address	Approximate Distance From Project Area	Regulatory List/Concern	Contamination Known or Potential	Reasonably Predictable / Substantially Contaminated
1	Single Family Residence	N/A	2700 W. Galer St.	Adjacent	Residential heating oil UST	Potential	Reasonably Predictable
2	Single Family Residence	N/A	1502 Thorndyke Ave	Adjacent	Residential heating oil UST	Potential	Reasonably Predictable
3	Single Family Residence	N/A	2608 W. Galer St.	Adjacent	Residential heating oil UST	Potential	Reasonably Predictable
4	Single Family Residence	N/A	2600 W. Galer St.	Adjacent north	Residential heating oil UST	Potential	Reasonably Predictable
5	Single Family Residence	N/A	1500 Magnolia Way	Adjacent	Residential heating oil UST	Potential	Reasonably Predictable
6	Single Family Residence	N/A	1524 Magnolia Way W	Adjacent	Oil Burner	Potential	Reasonably Predictable
7	Vacant, Residential	N/A	None	Adjacent	Oil Burner	Potential	Reasonably Predictable
8	Single Family Residence	N/A	1556 Magnolia Way W	Adjacent	Oil Burner	Potential	Reasonably Predictable
9	Port of Seattle	N/A	2001 W. Garfield	On alignment	History of industrial uses	Potential	Substantially Contaminated
10	Port of Seattle, Terminal 91	20		On alignment	Tank farm and former waste oil reclamation facility, CSCSL, UST, LUST, WA ICR	Known	Substantially Contaminated
11	Burlington Northern Santa Fe Railroad	N/A	2201 W, Armory Way	On alignment	Railroad	Potential	Reasonably Predictable
12	Port of Seattle, Terminal 90	20		On alignment	Former fumigation plant, WA ICR, CSCSL, VCP	Known	Substantially Contaminated
13	Metro Interbay Pump Station	20	1523 W. Garfield	Adjacent south	UST, LUST	Potential	Reasonably Predictable
14	Vacant Commercial Land	N/A	Elliott Ave. W. and W. Garfield St.	Adjacent southwest	Richfield Oil Corp warehouse, many 55-gallon drums in old tax assessor photograph	Potential	Substantially Contaminated
15	Sammis Company	20	1519 - 1545 15th Ave	Adjacent south	CSCSL, UST	Known	Substantially Contaminated

**Table 2
Validated Sites**

Site No.	Site Name	EDR#	Site Address	Approximate Distance From Project Area	Regulatory List/Concern	Contamination Known or Potential	Reasonably Predictable / Substantially Contaminated
16	Duplex Property	N/A	1517 15th Ave	300 feet south	Former service station, auto-wrecker, and used car sales lot	Potential	Reasonably Predictable
17	Precision Motorworks	N/A	1501 Elliott Ave & 1555 Galer	400 feet south	Former oil and gas wholesalers and gas station	Potential	Reasonably Predictable
18	The Pennzoil Co.	N/A	1451 Elliott Ave	450 feet	Former oil wholesaler	Potential	Reasonably Predictable
19	SDOT Garage	N/A	1450 Elliott Ave	300 feet	Auto garage/service center	Potential	Reasonably Predictable
20	Former Smith Cove Cleaners	N/A	1422 W. Galer	Adjacent South	Former dry cleaners	Potential	Reasonably Predictable
21	Properties located at 1504 and 1506 15th Avenue W.	N/A	1504 - 1506 15th Ave	300 feet south	Former service station and machine shop	Potential	Reasonably Predictable
22	Builders Hardware Supply	N/A	1401 - 1409 W. Garfield & 1524 15th Ave	Adjacent south	Former service station and industrial property	Potential	Substantially Contaminated
23	Lighthouse Uniforms	20	1532 15th Ave	100 feet south	UST, Former dry cleaners	Potential	Substantially Contaminated
24	Property located at 1534 15th Avenue W.	N/A	1534 15th Ave	Adjacent south	Former service station	Potential	Reasonably Predictable
25	SPCC (formerly Rudd paint)	20	1602 - 1630 15th Ave	Adjacent north	CSCSL, UST, LUST, WA ICR	Known	Substantially Contaminated
26	EZ Mini Storage	20	1634 15th Ave	500 feet north	UST, Former "insect powder" manufacturer	Potential	Substantially Contaminated
27	Car Wash Enterprises/ Circle K Store 5516	N/A	1800 15th Ave	800 feet north	Former service station	Known	Reasonably Predictable
28	Tsubota Steel and Pipe	20	1805 - 1827 15th Ave	Adjacent to 800 feet north	UST, LUST, WA ICR	Known	Reasonably Predictable
29	Joseph Smith Estate	20	1641 - 1801 15th Ave	250 feet north	1938 - 1941: Smith Cove Fuel Co. and gas station 1941 to ??; Expert Radiator Service; Referred to as Joe Smith's property in Ecology database	Known	Substantially Contaminated

**Table 2
Validated Sites**

Site No.	Site Name	EDR#	Site Address	Approximate Distance From Project Area	Regulatory List/Concern	Contamination Known or Potential	Reasonably Predictable / Substantially Contaminated
30	Triad Interbay LLC	20	1631 15th Ave	150 feet north	Former Smith Cove Auto Wrecking Yard and Olympic Iron and Steel	Potential	Reasonably Predictable
31	Commercial Storage Yard	N/A	1621 15th Ave. W.	200 feet north	Former used car lot	Potential	Reasonably Predictable
32	Evergreen Trailways Garage	25	1617 15th Ave	50 feet	UST, Truck and bus maintenance garage	Potential	Reasonably Predictable
33	Fred Arnold Truck Sales	N/A	1601 15th Ave	Adjacent north	Former used car lot	Known	Reasonably Predictable
34	National Guard Armory	N/A	1600 Armory Way	Adjacent South	Probably munitions and fuel storage	Potential	Substantially Contaminated
35	Interbay Old Landfill	13	2501 15th Ave. W.	2,500 feet north	CSCSL - Interbay Landfill, former service station	Known	Substantially Contaminated

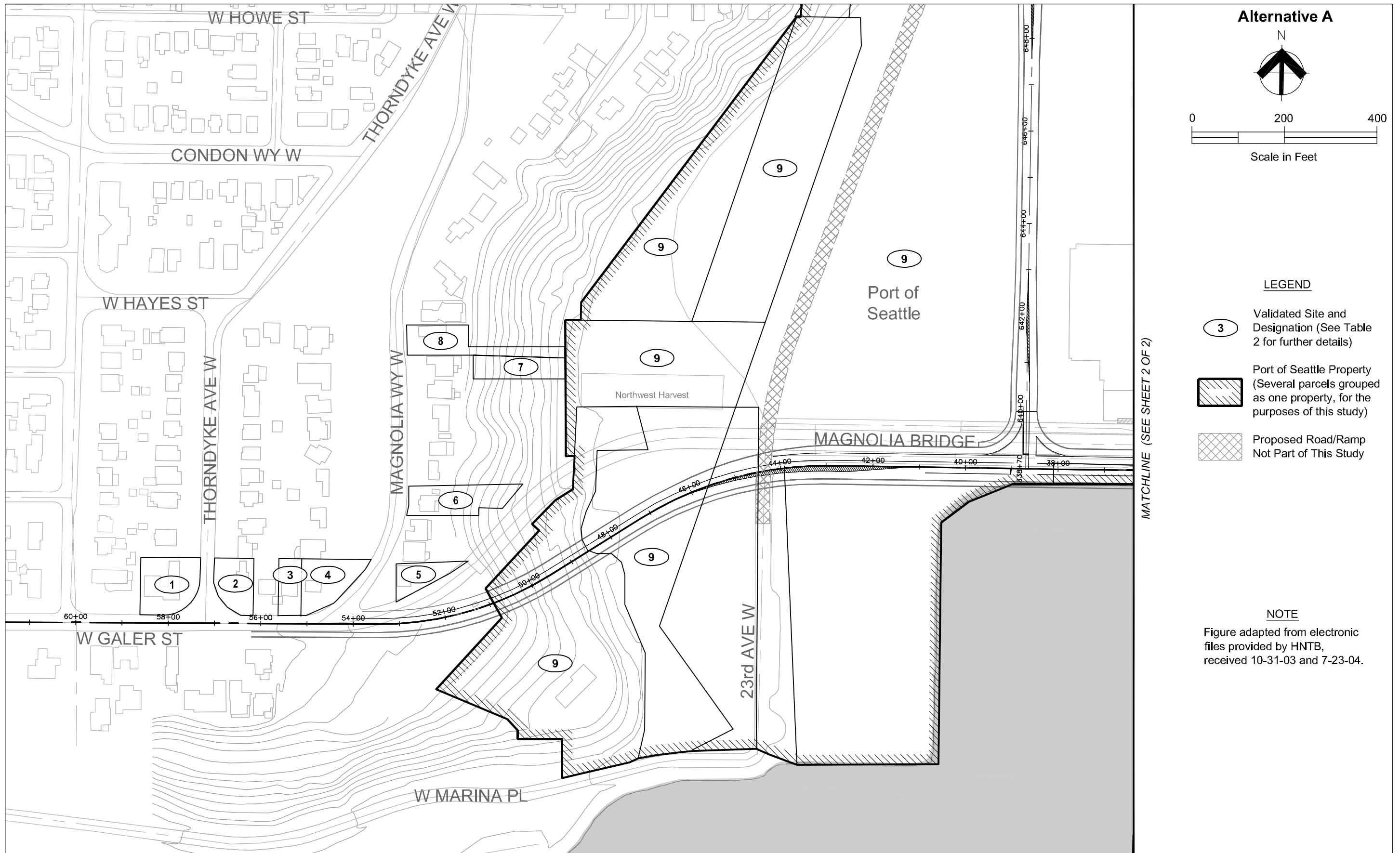


Figure 11, Sheet 1 of 2 - Validated Sites - Alternative A



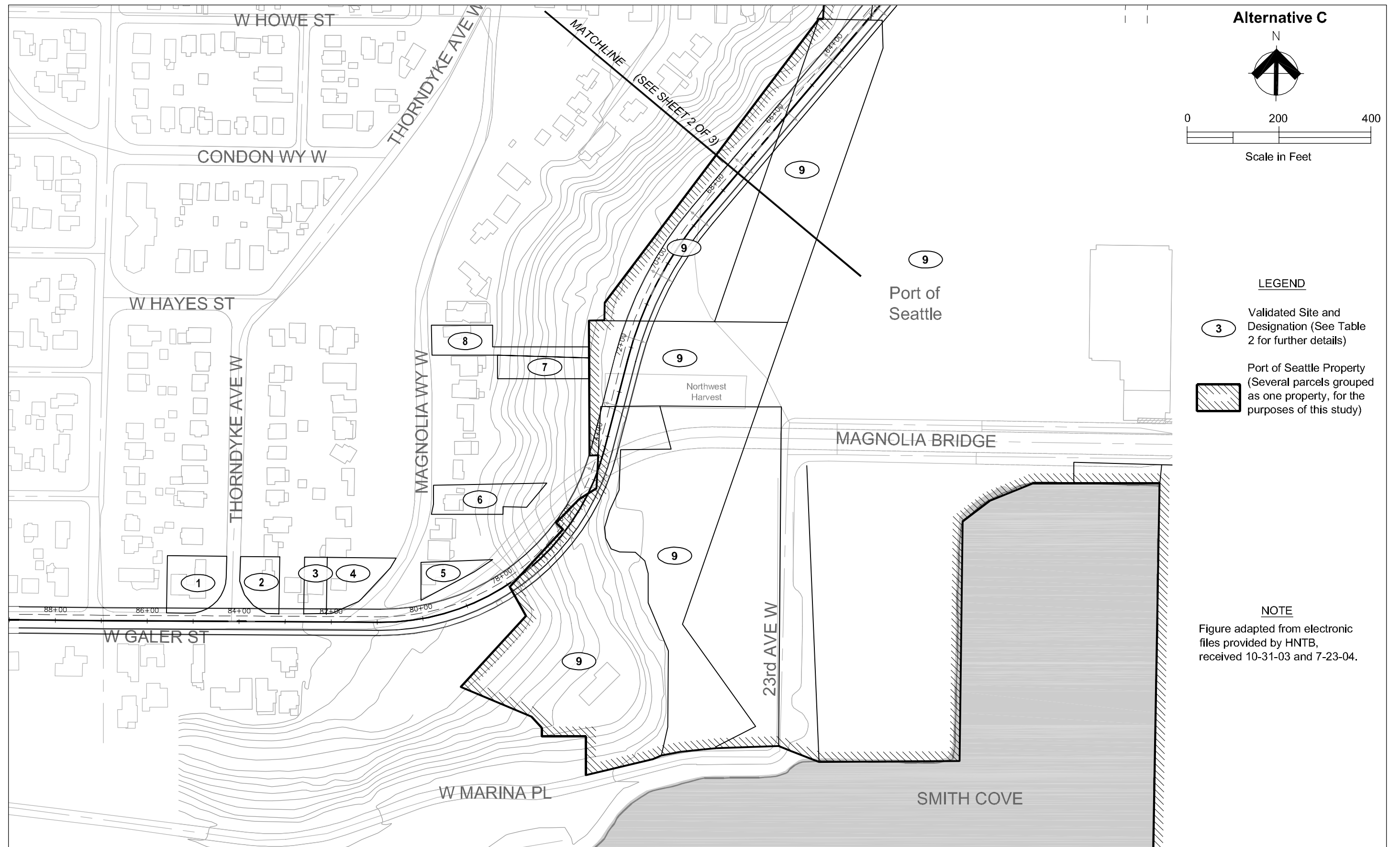


Figure 12, Sheet 1 of 3 - Validated Sites - Alternative C

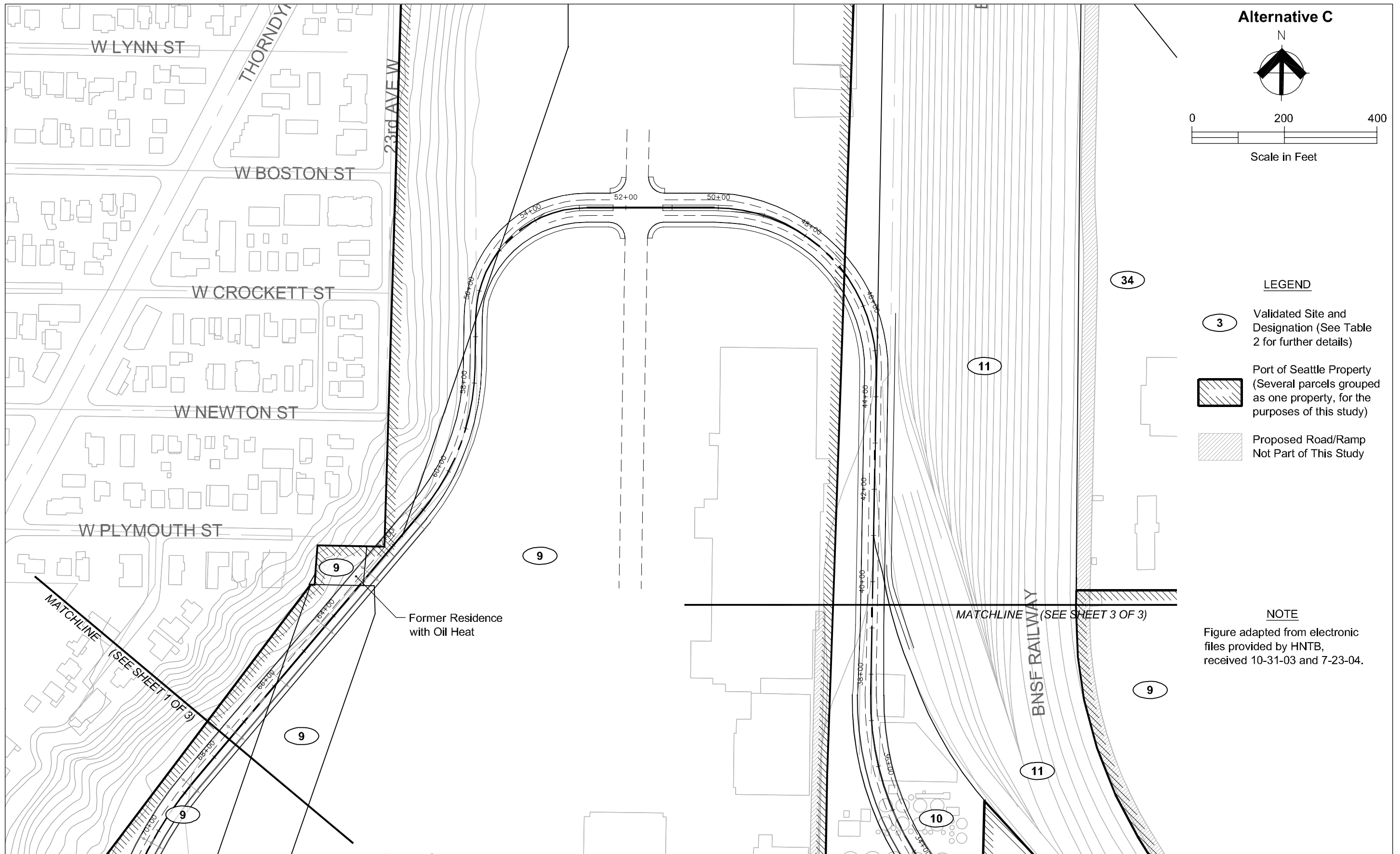


Figure 12, Sheet 2 of 3 - Validated Sites - Alternative C



Figure 12, Sheet 3 of 3 - Validated Sites - Alternative C



Figure 13, Sheet 1 of 2 - Validated Sites - Alternative D



Figure 13, Sheet 2 of 2 - Validated Sites - Alternative D

Affected Environment

The information collected from our studies was used to develop the following description of the affected environment, including the general topographic setting, regional geology, and land use in the project area. Each of the validated properties identified in Studies and Coordination section is then discussed below based on its potential to impact the proposed project.

Physical Environment

All of the alternatives would be located in the area between West Wheeler Street to the north and Piers 90 and 91 to the south, and would connect to West Galer Street at their west ends, similar to the existing alignment. Alternatives A and C would use the existing Magnolia Bridge on-ramp alignment just east of 15th Avenue West. Alternative D would extend north of the existing on-ramp alignment but would intersect with 15th Avenue West in the same location as the other alternatives.

The majority of Alternative A would run parallel to, and be within about 50 feet south of, the existing bridge structure. Alternatives C and D would run approximately 1,800 feet and 570 feet north of the existing bridge, respectively. A more detailed description of the alternatives is located in the Descriptions of Alternatives Section.

The existing topography is relatively flat from east to west, until the alignments reach the toe of Magnolia Bluff. From the toe of the bluff, the ground surface rises steeply to the Magnolia surface streets. The elevation gain up Magnolia Bluff is approximately 150 feet. Queen Anne Hill lies east of the three alignments, just beyond their eastern approaches; this hill is about 80 feet high in the vicinity of the three alignments.

Residential, commercial, industrial, the National Guard Armory, and Port of Seattle properties comprise most of the development within the project area. The majority of the proposed alignments are already paved. The Magnolia Bluff hillside is generally vegetated with deciduous trees, predominantly alder and maple along with other species, with an undergrowth of Himalayan blackberry and ivy.

Geologic Conditions

The geologic conditions were interpreted from subsurface information obtained from the current and previous geotechnical explorations, geologic maps of the area, and a geologic site reconnaissance as described previously. More specific geologic information for the three alignments is presented in the *Geology and Soils Discipline Report* (Shannon & Wilson, Inc., 2004). The following sections summarize the regional and site geology and the soil and groundwater conditions encountered along the three alignments.

Regional Geology

Seattle is located in the central portion of the Puget Lowland, an elongated topographic and structural depression bordered by the Cascade Mountains on the east and the Olympic Mountains on the west. This lowland is characterized by a series of north-trending ridges separated by deep ravines and broad valleys. These

ridges and valleys were formed by glacial scouring and subglacial erosion. In general, the ground surface elevation in the Puget Sound region is within 500 feet of sea level.

During the past 3 million years (Pleistocene Epoch), at least six major glaciers have advanced southward into the Puget Lowland from the coastal mountains of British Columbia. The most recent of these glaciations (the Vashon Stade of the Fraser Glaciation) advanced as far south as halfway between Olympia and Centralia (about 60 miles south of Seattle). This ice sheet, which is estimated to have been about 3,000 feet thick in the Seattle area, retreated from the study area about 13,500 years ago.

The repeated glaciations and interglacial processes filled the Puget Lowland with a thick sequence of unconsolidated Pleistocene sediments. The distribution of the glacial and non-glacial sediments is complex, because each glacial advance deposited new sediment and partially eroded older sediments. During interglacial episodes, the complete or partial erosion, or the reworking of some deposits, as well as the local deposition of other sediments further complicated the geologic setting. Pre-Vashon sediments are all of those deposited prior to the Vashon Stade, including both glacial and nonglacial materials.

The sediments that were deposited during ice recession and after the disappearance of the Vashon ice in the Puget Lowland have engineering characteristics very different from the older sediments that were overridden by glacial ice. Of particular note in the project area are fill, beach, estuarine, and reworked glacial deposits that underlie the Interbay area. These Holocene deposits have not been overridden by glacial ice and exhibit densities and consistencies ranging between very loose to dense and very soft to very stiff.

The proposed project area includes a north-south-trending topographic trough known as Interbay. The trough is bounded on both sides by glacial uplands, Magnolia on the west and Queen Anne Hill on the east. The uplands are underlain by very dense and hard glacial soils laid down during the advance and retreat of several glaciations, whereas the intervening topographic swale/trough of Interbay is underlain by loose to dense glacial recessional outwash, beach deposits, and very soft to stiff estuarine deposits laid down since the last retreat of glacial ice. Since the late nineteenth century, various fill materials have been placed in the Interbay area (especially Smith Cove).

Soil Conditions From Current and Previous Explorations

The following soil conditions are summarized from the Geology and Soils discipline report for this project (Shannon & Wilson, Inc., 2004). The information provided in that report is based primarily on the soils encountered in recent subsurface explorations and a review of the available subsurface information within the project area.

Soil conditions encountered in the vicinity east of 15th Avenue West consist of approximately 10 to 15 feet of Holocene fill underlain by Holocene beach and estuarine deposits to a depth of approximately 30 feet. The Holocene fill is characterized by heterogeneous soils including silty sand and gravel with debris and shell fragments. The fill densities range from loose to medium dense. In the vicinity of the Galer Flyover, approximately 20 to 30 feet of Holocene colluvium and landslide debris are encountered in existing borings. Hard, Vashon

glaciolacustrine, clayey silt, and silty clay soils were encountered in the existing borings below the Holocene deposits. Pre-Vashon glacial outwash and a thin, pre-Vashon mudflow deposit underlie the glaciolacustrine soils at the east end of Alternative D. Pre-Vashon glacial outwash is comprised of very dense, clean to slightly silty sand, and the pre-Vashon nonglacial mudflow deposit is comprised of hard, gravelly, sandy, clayey silt with scattered ash seams.

West of 15th Avenue West, the Holocene beach and estuarine soils thicken substantially to a maximum observed thickness of 103 to 105 feet thick. Ten to 13 feet of normally consolidated Vashon recessional outwash underlie the Holocene deposits. Recessional outwash is comprised of very dense to dense, slightly gravelly, silty sand; fine sandy silt; and slightly clayey silt with scattered till-like pockets. Hard, pre-Vashon glaciolacustrine, silty clay to clayey silt was encountered below the recessional outwash sand at an approximate elevation of -100 feet. Glaciolacustrine soils were encountered at depths of 146.5 to 151.5 feet.

In the vicinity of the northern limits of Alternative C, the thickness of the Holocene beach and estuarine deposits is unknown due to the lack of explorations in the area. In general, the thickness of the Holocene soil decreases to the north, away from the mouth of the Interbay embayment.

In the vicinity of the Port of Seattle Terminal 91 tank farm site, approximately 10 feet of fill was encountered. Underlying soils consisted of approximately 30 feet of Holocene beach and estuarine deposits. Hard, Vashon glaciolacustrine, silty clay underlies the Holocene deposits at an approximate elevation of -24 feet. West of the tank farm site, the thickness of the Holocene soils is not known because none of the existing borings penetrated into glacially over-consolidated deposits.

In the general vicinity of Magnolia Way West and West Galer Street (on Magnolia Bluff), soils consist of Holocene fill overlying 3 to 13 feet of Vashon glacial till. Some of the existing boring information in this area is 150 to 210 feet away from the proposed alignments and should be considered approximate. Vashon glacial till is comprised of very dense, silty, gravelly sand to silty, sandy gravel. Underlying the till layer along the west limit of Alternatives A, C, and D is Vashon advance outwash, comprised of very dense, slightly silty to silty, fine sand. Vashon glaciolacustrine silt and clayey silt were encountered at the bottom of the existing borings in the vicinity of West Galer Street.

Hydrogeologic Regime

The hydrogeologic regime in the Puget Sound area is highly variable. Groundwater flow is generally controlled by glacial stratigraphy and groundwater recharge/discharge relationships. Groundwater recharge typically occurs in the upland areas of Seattle. Groundwater movement is then, in principle, primarily downward to the discharge areas, and then eventually to the major surface water bodies such as Elliott Bay, Lake Washington, and Puget Sound.

The complex glacial stratigraphy in the Seattle area has a strong influence on the nature of groundwater flow. The direction of groundwater movement is controlled, in part, by the permeability of the deposits. Groundwater flow in the stratigraphically higher, coarse-grained, high-permeability deposits, such as glacial outwash, likely flows horizontally and vertically under unconfined water table conditions. Groundwater in these units is often perched on top of low-permeability till and lacustrine units. Much of groundwater flows laterally and may discharge at

springs or seeps on the hillsides. However, a portion of this groundwater percolates vertically downward through the lower-permeability units or windows/cracks in the impervious layers to underlying deposits. The permeabilities of glacial deposits typically differ by orders of magnitude. Because of this, there is commonly more than one unit that perches groundwater in the stratigraphic sequence; therefore, there are commonly multiple, areawide piezometric surfaces.

The direction of groundwater movement is also governed by hydraulic gradients, which may decrease or increase with depth in the stratigraphic section. Downward hydraulic gradients are typical in upland areas; upward hydraulic gradients are typical in water-bearing units close to the major discharge bodies.

Groundwater

Groundwater for the project area is summarized from the Water Quality Discipline Report for this project (KPF Consulting Engineers, 2003).

The principal groundwater flow system in the project area consists of a shallow unconfined aquifer system underlying the Interbay Channel. Groundwater elevations in the shallow unconfined aquifer generally range from 5 to 15 feet (NAVD 88 datum) in the vicinity of the Proposed Action. Groundwater elevations are highest toward the north of the project area and lowest toward the south, resulting in a southward groundwater flow toward Smith Cove and Elliott Bay. The depth to the shallow water table ranges from less than 4 feet to approximately 10 feet below the ground surface of the Interbay Channel. The water table may fluctuate 1 to 3 feet seasonally due to changing precipitation patterns. In addition, the shallow water table in the vicinity of Elliott Bay (Smith Cove) fluctuates in response to tidal stage changes. Actual depths to groundwater would vary based on the ground surface elevation, season of the year, and tidal stage in Elliott Bay.

Less extensive groundwater systems include upland aquifers within Queen Anne Hill and Magnolia Hill, which likely flow east from Magnolia Hill and west from Queen Anne Hill toward the Interbay Channel. These aquifers discharge either from springs or seeps along the hillsides or percolate into deeper geologic units.

A deep artesian aquifer system is also present beneath the shallow unconfined aquifer in the Proposed Action area at a depth of 300 to 400 feet below sea level. Specific groundwater flow directions and gradients could not be determined for this aquifer. However, region-wide evidence suggests groundwater flow is likely directed upward toward Elliott Bay, the major regional groundwater discharge area.

Land Use

Development of the area around Magnolia Bridge began as early as the late 1890s. Great Northern Railroad and the Port of Seattle each had railroad tracks and two piers established on Elliott Bay and Smith Cove. In 1929, the Magnolia Bridge was constructed; adjacent properties were generally developed with military and industrial uses. Based on aerial photograph interpretation, by 1946 Smith Cove north of the bridge had been filled and Interbay Landfill was in operation. Residential and commercial developments began appearing with more frequency in the 1950s. By 1969, two piers located east of the Port of Seattle piers were combined and the waterway between them filled. Major development of the area hasn't occurred since 1985, with the exception of the redevelopment of Interbay

Landfill into a golf course (late 1990s), and the construction of the Galer Street Flyover (between 1999 and 2002).

Historic and current land uses potentially have resulted in the generation and release of hazardous wastes that could affect various areas of the project alignments. Development along the alignments is not well documented in any single informational resource; therefore, a number of informational resources were consulted to establish an understanding of the historic development along the project alignments. Historic land uses in the project area that could have resulted in contamination include: military uses, metal manufacturers, junk and wrecking yards, auto repair/maintenance shops, gasoline stations/bulk fuel distributors, railroad tracks and maintenance facilities, a landfill, and a coal gasification plant. Additional information on these land uses is provided in the Study Area Summary.

Study Area Summary

Asbestos, Lead, and Heating Oil Concerns

Asbestos was used widely in building materials until 1977 when laws regulating its use and disposal were established. Asbestos can be found in a variety of building materials, including exterior siding, roofing shingles, flooring, “sprayed-on” fireproofing, insulation, soundproofing, and ceilings. Asbestos was commonly used as a major component of heating system gaskets, pipe wrapping, air duct lining, and brake linings in trucks and cars. These materials can pose a health risk, especially when they are disturbed by building demolition or remodeling. Asbestos-containing materials (ACM) have different potentials for releasing fibers into the environment, depending on their content and the friability of the material. (A friable material can be crushed with hand pressure so that the fibers are readily emitted into the environment.)

Lead was used historically as a pigment and drying agent in “alkyd” oil-based paint. About two-thirds of the homes built before 1940 and one-half of the homes built from 1940 to 1960 contain lead-based paint (LBP). Some homes built after 1960 may also contain LBP (Consumer Product Safety Commission, 2003). In addition LBP is also likely present on the existing Magnolia Bridge. Lead-based paint has historically been associated with lead poisoning in children when they have eaten paint chips; however, LBP can also pose a health risk during demolition and remodeling activities, when lead can become airborne and be inhaled or ingested.

Nine properties in or adjacent to construction limits area were identified for which buildings were historically heated with heating oil. It is unknown whether heating oil tanks are still present on these properties and, if so, where they are located. However, remediation of petroleum-contaminated soil (PCS) and/or groundwater, if present, can be assumed to be reasonably predictable.

No Build Alternative

Because no construction/excavation is involved with the No Build Alternative, no structures would be removed and/or demolished and no PCS associated with heating oil storage and use would be encountered. LBP may be encountered during routine maintenance of the existing bridge structure.

Alternative A

No structures are planned for removal or demolition for Alternative A. PCS associated with heating oil storage and use may be encountered and can be assumed to be reasonably predictable. In addition, LBP may be encountered during demolition and/or routine maintenance of the existing bridge structure.

Alternative C

Alternative C involves demolishing three commercial buildings. ACBM and/or LBP could be present in these structures. In addition, LBP may be encountered during demolition and/or routine maintenance of the existing bridge structure. PCS associated with heating oil storage and use may be encountered and can be assumed to be reasonably predictable.

Alternative D

Alternative D includes demolishing four commercial buildings. ACBM and/or LBP could be present in these structures. In addition, LBP may be encountered during demolition and/or routine maintenance of the existing bridge structure. PCS associated with heating oil storage and use may be encountered and can be assumed to be reasonably predictable.

Validated Property Ranking

All of the properties that were identified having some potential for contamination are listed in the following summary. Each of the properties has been ranked as having a low, moderate, or high potential risk to the project, depending on whether contamination was known to be present, if remediation of suspected contaminants were reasonably predictable, and/or whether earthwork is anticipated in the property vicinity.

Low risk properties include: (a) sites where remediation of contamination, if present, is reasonably predictable; and (b) sites where remediation is not reasonably predictable, but SDOT is not anticipated to acquire the property and no earthwork is anticipated in the site vicinity.

Moderate risk properties include small sites that are classified as "substantially contaminated" under FHWA guidelines that SDOT does not anticipate acquiring and/or larger sites where contamination is only suspected.

High-risk properties include sites that SDOT anticipates acquiring where known contamination is not reasonably predictable.

The number in parentheses next to each property name is the property's identification number on Figures 11, 12, and 13.

Validated Properties

Eight **Residences with Oil Heat (1 through 8)** are or were located adjacent to the project area. These properties are considered to be a low risk to the project because heating oil is not particularly mobile when released to subsurface soil, and petroleum contamination, if present, is considered "reasonably predictable."

The **Port of Seattle Property (9)** occupies several parcels north of West Galer Street, to the east of Magnolia Way West and Thorndyke Avenue West, south of West Wheeler Street, and west of the Terminal 91 tank farm. This property has a

history of site uses including freight staging, military supply, and ship fueling. A residence that was heated with oil formerly occupied a small Port of Seattle parcel that is in the Alternative C alignment (see Figure 12, Sheet 2).

The Port of Seattle property is currently occupied by large parking areas for semi-tractor trailers as well as support buildings for the Port. Based on the history of site uses, there is the potential for petroleum, metals, munitions, and solvent contamination to be present in the soil and/or groundwater at this site. Due to the size and variety of potential contaminants, this site would be classified as “substantially contaminated.” Since all of the proposed alignments cross over this site, it is considered a high risk to the project.

The **Port of Seattle Terminal 91 (10)** tank farm site is located adjacent to and north of, the existing Magnolia Bridge, and is adjacent to and west of the BNSF railroad tracks. This 4-acre site is currently used as a bulk fuel storage facility and is occupied by a number of large petroleum storage tanks and associated support buildings. The site was in use as early as 1925 and has in the past been an oil refinery, a waste oil reclamation facility, and a generator, storer, and marketer of used oil fuel and hazardous waste fuel. The site is listed on Ecology’s UST, LUST, CSCSL, and WA ICR databases.

According to the files reviewed at Ecology, the soil and groundwater at this site historically has been contaminated with volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), gasoline-, diesel-, and oil-range petroleum hydrocarbons, metals (arsenic, chromium, lead, mercury, and zinc), and polychlorinated biphenyls (PCBs). During the last sampling event on record at Ecology, gasoline-, diesel-, and oil-range hydrocarbons; VOCs; arsenic; chromium; lead; and zinc were detected in the groundwater, although only gasoline-range hydrocarbons exceeded the MTCA Method A cleanup level. Additionally, light non-aqueous phase liquid (LNAPL) was present in 8 of the 29 groundwater monitoring wells on the property. The Port is under an agreed order to clean up the site. Remediation is ongoing and includes passive LNAPL product recovery. However, the results of groundwater sampling indicate that impacted soil and groundwater extend beyond the boundaries of the monitoring network. The general groundwater gradient at the property appears to be south-southwest, toward the current Magnolia Bridge.

Due to the size, complexity, and variety of chemicals at this site, it would be considered “substantially contaminated.” This property is a high risk to the project because it is in the proposed alignment of Alternative C and Alternative D.

The **Burlington Northern Santa Fe Railroad (BNSF) property (11)** runs north-south, perpendicular to the existing Magnolia Bridge and is situated between Elliott Ave, the National Guard Armory, and the Interbay Landfill on the east; and the Port of Seattle Terminal 91 property and 20th Avenue West on the west. A number of potential concerns are associated with railroads. Petroleum hydrocarbon contamination from wheel greasing is common, as is polycyclic aromatic hydrocarbons (PAHs) contamination from preservatives leaching out of railroad ties. In addition, accidental releases from tank cars may have occurred. Petroleum hydrocarbon and PAHs contamination are considered “reasonably predictable;” however, since the proposed alignment crosses over this property, it is considered a low risk to the project.

The **Port of Seattle Terminal 90 property (12)** is located adjacent to and south of the existing Magnolia Bridge. This site appears on Ecology's WA ICR, CSCSL, and VCP lists. According to Ecology files, a bunker oil pipeline spill of unknown quantity occurred at this terminal in 1999. Contaminated soil was excavated from the area around the pipeline to remove the contamination. Groundwater was not encountered, but was estimated to be at approximately 6 to 9 feet bgs. It is unknown if the contaminants migrated to the groundwater. Oil was not detected in samples collected from the northern boundary of the excavation, nearest the current Magnolia Bridge.

According to archive records, Pier 90 was also the site of a vacuum fumigation plant that was constructed in 1913. It is unknown what hazardous materials were used at this plant; however, they may have included arsenic and/or cyanide. Since this plant was in operation well before many environmental regulations were promulgated, there is the potential for unreported releases from this site to have occurred in the past that could have contaminated the site soil and/or groundwater.

Because potential contamination at the site may include arsenic, cyanide, or other hazardous materials used in fumigation, this site would be considered "substantially contaminated." Although the site is immediately adjacent to the proposed alignment, the areas of potential contamination are at least 500 feet south, so this property is considered a moderate risk to the project.

The **Metro Interbay Pump Station (13)** is located at 1523 West Garfield, adjacent to and south of the current Magnolia Bridge. This site is listed on Ecology's UST and LUST databases. According to Ecology files, two 750-gallon USTs, one motor oil UST, and one waste oil UST were removed from the property in 1990. Approximately 15 tons of PCS were removed in 1990, and 750 cubic yards of PCS were removed from the site in 1992 and disposed at a landfill. Samples from the excavation had concentrations of diesel-range petroleum hydrocarbons below the current MTCA Method A cleanup level of 2,000 parts per million (ppm). No groundwater was encountered during site activities. The site is "reported cleaned up" by Ecology because all PCS was reportedly removed from the site; however, the site has not been given a "No Further Action" status and site soil and/or groundwater may still be contaminated with petroleum hydrocarbons. Additionally, an exempt 111 – 1,000-gallon bunker C fuel UST is still present at the site. Since petroleum hydrocarbon contamination is considered "reasonably predictable," this site is considered a low risk to the project.

The Vacant Commercial Land property (14) is located at the intersection of Elliott Avenue West and West Garfield Street. This property is adjacent to and southwest of the project alignment and was formerly occupied by Richfield Oil Corporation. Based on a historical photograph from the historical tax assessor records, many 55-gallon drums were present on this property. Because bulk amounts of petroleum may have been stored on this property, this property is considered "substantially contaminated." Based on its location adjacent to the alignment, it is considered a moderate risk to the project.

The **Sammis Company Property (Elliott Industrial Park) (15)** is located at 1519, 1523, 1535 and 1541 to 1545 15th Avenue West, adjacent to, and south of the current Magnolia Bridge. This site appears on the WA ICR, VCP, and CSCSL databases and is currently undergoing independent remedial action. According to Ecology files, this property was occupied by the Richfield Oil Corporation, a bulk petroleum

tank farm containing ASTs from 1927 to 1965. Other site uses have included a gasoline station and an automobile wrecking yard. Petroleum contamination was detected in soil to a depth of 5 feet bgs, and in groundwater at levels above MTCA cleanup standards. Other contaminants found in soil above MTCA cleanup standards included methylene chloride (possibly a lab contaminant) and PAHs. There have been up to 15 groundwater monitoring wells onsite, but 11 were closed in agreement with Ecology. During the four most recent groundwater monitoring events, elevated concentrations of gasoline, diesel, oil and benzene above MTCA Method A cleanup standards were detected in samples from a well located in an existing building in the middle-northern portion of the site. VOCs above cleanup levels were also detected in this sample. Groundwater is located at approximately 9 to 10.5 feet bgs, and the gradient is generally toward the west-northwest. This property also has suspect surface water contamination (halogenated VOCs, total petroleum hydrocarbons [TPH], and non halogenated solvents). Based on the elevated levels of contaminants in the groundwater and soil, and the former use of the property as a bulk fuel storage facility, it is considered "substantially contaminated" and a moderate risk to the project.

The **Vacant Commercial Lot located at 1517 15th Avenue West (16)**, approximately 200 feet south of the existing bridge, was occupied by a gasoline service station, an auto repair shop, an auto wrecking yard, and a used car lot from approximately 1938 to 1956. No evidence of these former site uses is now present. Due to the former site uses, the potential exists for petroleum and metals contamination to be present at the site. The property is considered substantially contaminated, but is considered a low risk because of its distance from the project area (approximately 300 feet south).

The **Precision Motorworks property (17)** located at 1501 Elliott Avenue West, approximately 400 feet south of the eastern end of the current bridge, was occupied by an oil and gasoline wholesaler and gasoline station from about 1938 to 1975. The site is currently occupied by Budget Batteries. Although oil and gasoline were handled and/or stored at this property in the past, this site is considered low risk to the project due to its distance from the extent of construction, and because petroleum contamination is considered "reasonably predictable."

The **property located at 1451 Elliott Avenue West (18)**, approximately 450 feet south/southwest from the current bridge, was occupied by a Pennzoil Oil Co. oil wholesaler from approximately 1938 to 1996. The property is currently occupied by a vacant warehouse that was constructed in 1997. Although large quantities of oil and gasoline were likely handled and/or stored at this property in the past, this site is considered low risk to the project due to its distance from the extent of construction, and because petroleum contamination is considered "reasonably predictable."

The **Seattle Department of Transportation (SDOT) Garage (19)** is located at 1450 Elliott Avenue West, approximately 300 feet south from the current bridge. This property has been occupied by an auto and bus repair shop and service garage since approximately 1930. Potential contaminants associated with repair shops include petroleum products, solvents, and metals. Although these contaminants potentially have been used/stored on this property, the site is considered a low risk to the project based on its distance from the extents of construction, and because contamination associated with auto repair sites is considered "reasonably predictable."

Smith Cove Cleaners (20) occupied the property at 1422 West Galer, adjacent to the east end of the alignments, until approximately 1944. After that, the property was occupied by a steel products manufacturer until approximately 1961, followed by a number of small businesses. Due to the potential for dry cleaning solvents to have been used and/or stored at this property, it is considered “substantially contaminated.” Because it is a relatively small site, it is considered a moderate risk to the project.

The **properties located at 1504 and 1506 15th Avenue West (21)** are situated approximately 200 feet south of the alignments. These properties were occupied by a gasoline service station from approximately 1938 to 1956, and a machine shop from approximately 1944 to 1960. No evidence of these buildings is now present. The property is considered low risk because petroleum contamination, if present, is considered “reasonably predictable.”

The **Winkler NW, Inc. property (22)** is located adjacent to, and south of, the current bridge at 1401 to 1409 West Garfield Avenue and 1524 15th Avenue West. This property was formerly occupied by a Shell service station, a separate auto service garage, and Fentron Steel and Iron Works, Inc. The site is currently occupied by Builder’s Hardware. Based on the historical site uses, the potential exists for this site to be contaminated with petroleum, metals, and solvents. Metals and solvents are not considered “reasonably predictable,” so this site would be considered “substantially contaminated.” Due to the size of this site, and because it is adjacent to the proposed alignment, it is considered a moderate risk to the project.

The **Lighthouse Uniforms property (23)** is located at 1532 15th Avenue West, approximately 100 feet south of the current bridge. This building was built in 1956 and was initially occupied by a dry cleaners. The site is currently a retail uniform store, and it is unknown when the dry cleaners ceased operation. Additionally, this site appears on Ecology’s UST list. According to the EDR report, three unleaded gasoline USTs have been removed from this site. Due to the potential for dry cleaning solvents to have been used and/or stored at this property, it is considered “substantially contaminated.” Because it is a relatively small site, it is considered a moderate risk to the project.

The **property located at 1534 15th Avenue West (24)** was occupied by a gasoline service station from approximately 1938 to 1951. The property is adjacent to the current Magnolia Bridge. No evidence of the former gasoline station is now present. The property is considered low risk because petroleum contamination, if present, is considered “reasonably predictable.”

The **SPCC (formerly Rudd Paint and Varnish Co.) site (25)** is adjacent to, and north of, the alignment. This site, consisting of an entire city block located at 1602 to 1630 15th Avenue West, appears on Ecology’s CSCSL, LUST, WA ICR and VCP databases. According to Ecology files, seven USTs were removed from this property in 1991, and another twelve USTs were removed in 1999. These USTs formerly were used to store raw materials for manufacturing paints, including a lacquer thinner blend, toluene, mineral spirits, acetone, ethyl alcohol, ethylbenzene, butyl alcohol, methyl alcohol, methyl isobutyl ketone, naphtha, toluosol 20, trichloroethane, and n-butyl acetate. Confirmation soil and groundwater samples collected following the 1991 removals indicated that the soil and groundwater were contaminated with a number of chemicals, including ethylbenzene, xylenes, and 1,1,1-trichloroethane, at levels that exceeded the MTCA Method A criteria at the

time. Contaminated soil was over-excavated, and 500 pounds of oxygen release compound (ORC) was injected into monitoring wells at the site to remediate the groundwater. During the most recent monitoring event, conducted in March 2002, trichloroethylene and toluene were detected in the site groundwater at levels that exceeded the MTCA Method A cleanup levels, but were below the site-specific Method C cleanup levels of 39.8 ug/l and 3,500 ug/l, respectively. The depth to groundwater measured at the property is approximately 6 to 13 feet bgs, and the general groundwater gradient appears to be to the west/northwest. Because this site is contaminated with VOCs, including the solvent trichloroethylene, it is considered “substantially contaminated,” and because of its proximity to the proposed alignment, it poses a moderate risk to the project.

EZ Mini Storage (26) is located at 1634 15th Avenue West, approximately 500 feet north of the current bridge. This site appears on the UST database. According to the EDR report, two tanks that were used to store unknown liquids have been closed-in-place at the site. No releases from these tanks have been reported to Ecology.

This site was also occupied by an insect powder manufacturer from about 1951 to 1960. The chemicals that were used or stored at this site are unknown but may have contained arsenic and/or cyanide. Since the potential contaminants associated with the former insect powder manufacturer are not considered “reasonably predictable” by WSDOT, this site is considered “substantially contaminated,” but poses only a moderate risk to the project because of its distance from the proposed alignment.

The **Car Wash Enterprises/ Circle K Store 5516 site (27)** is located at 1800 15th Avenue West, approximately 800 feet north of the current bridge. This site appears on Ecology’s UST, LUST, and WA ICR databases. A fuel company and/or gasoline station occupied this site from about 1938 to 1964. This site has been a car wash/gasoline station since 1964. Ecology records indicate that five USTs containing leaded and unleaded gasoline have been removed from the site, one used/waste oil tank has been closed in place, and three unleaded gasoline tanks are operational at the site. Petroleum and benzene concentrations that exceed MTCA Method A cleanup levels for these contaminants are present in the groundwater at the site, and are migrating offsite to the west at the southwest corner of the site. Remediation at the site currently involves a soil vapor extraction system. Since petroleum contamination is considered “reasonably predictable” and due to the distance from the site to the project area, this site is considered a low risk to the project.

The **Tsubota Steel and Pipe site (28)** occupies an entire block. This property extends from West Garfield Street to approximately West Howe Street, and is located between 15th Avenue West and the Port of Seattle properties. Tsubota Steel and Pipe Co. have owned the properties on this block since approximately 1956. However, the northernmost parcels in this block changed ownership in 2001. Some of the parcels located within the Tsubota property are also listed as separate properties; these properties are listed as numbers 29 through 33. The northern and western portions of this site are currently occupied by a number of vacant buildings. This property is listed on Ecology’s UST, LUST, and WA ICR databases. According to Ecology files, two gasoline USTs were removed from the north end of the property at 1837 15th Avenue, and two more were removed from the southern end of the property at 1601 15th Avenue in 1990. The results of confirmation sampling at these locations indicated that the soil and groundwater were

contaminated with petroleum products. The most recent sampling event for which results were available at Ecology occurred in February 1998. The results of this sampling indicate that the groundwater on the northern end of the site was contaminated with benzene at a maximum concentration of 1,280 micrograms per liter (ug/L). This concentration exceeded Ecology's MTCA Method A cleanup criteria at that time of 5 ug/L. The groundwater gradient at the site is reportedly to the west, and depth to groundwater is approximately 0.5 to 1.5 feet below ground surface (bgs).

Since petroleum contamination is considered "reasonably predictable" by WSDOT and the contaminated portion of this site is located approximately 800 feet north of the proposed alignment, this property is considered a low risk to the project.

The **Joseph Smith Estate site (29)** is located on the properties from 1641 to 1801 15th Avenue West, approximately 250 feet north of the current bridge. This site is listed on the CSCSL and LUST databases. According to Ecology files, this property was formerly used for boat building and repair, an artist studio, abandoned vehicle storage, vehicle repair, and battery and lubricant storage. An oil drum spill and benzene, toluene, ethylbenzene, and xylenes (BTEX) spill have also occurred at this property. Three groundwater monitoring wells have been installed on the site. The groundwater gradient is to the west-northwest and groundwater is located at approximately 2.5 to 4 feet bgs. In 1991, benzene and ethylbenzene were detected in the easternmost monitoring well at 64 ug/L and 60 ug/L, respectively. The concentration of benzene exceeded the MTCA Method A cleanup criteria of 5 ug/L. Lead was detected at 9 ug/L in the westernmost monitoring well, below the MTCA cleanup level for lead. This property was also listed in the EDR report as having suspected EPA priority pollutants (metals/cyanide) in soil and groundwater. Based on the groundwater gradient to the west, contaminants could potentially migrate offsite. This property is considered "substantially contaminated" because metals and/or cyanide contamination is suspected on this site. However, this property is considered a low risk to the project based on its distance from the project area and groundwater flow direction away from the alignment.

The **Triad Interbay LLC site (30)** is located at 1631 15th Avenue South, approximately 150 feet north of the current bridge. This site is listed on the CSCSL, NFA, and VCP databases. According to the EDR report, an independent remedial action was completed at this site to cleanup an unknown contaminant. The site has received a "No Further Action" (NFA) letter from Ecology; however, the potential remains for the discovery of subsurface contamination during future assessment or development of the property. Although the nature of the release at this property is unknown, because it has received a NFA letter, and due to its distance from the project area, this site is considered to be a low risk to the project.

The **Commercial Storage Yard property (31)**, located at 1621 15th Avenue West, approximately 100 feet north of the alignment, was formerly a used car lot. Because used car lots commonly conduct auto repairs and/or have USTs, this property is considered "reasonably predictable" and a low risk to the project.

The **Evergreen Trailways Garage (32)**, used for truck and bus maintenance, has been located at 1617 15th Avenue West, approximately 50 feet north of the existing bridge, since about 1956. This site appears on Ecology's UST list. According to the EDR report, one heating oil UST, one waste oil UST, and three USTs used to store unknown liquids have been removed from the site. No releases associated with

these USTs have been reported to Ecology. Potential contaminants associated with repair shops include petroleum products, solvents, and metals. Although these potential contaminants have likely been used/stored on this property, the site is considered a low risk to the project because contamination associated with auto repair sites is considered “reasonably predictable.”

The **Fred Arnold Truck Sales property located at 1601 15th Avenue West (33)** has been occupied by a used car lot since about 1980. The property is adjacent to the current Magnolia Bridge. Because auto repairs may be conducted at the site, the potential exists for there to be petroleum, solvent, and metal contamination at the site. However, the property is considered low risk because petroleum contamination, if present, is considered “reasonably predictable.” It should be noted that this property is also part of the **Tsubota Steel and Pipe (28)** site discussed previously.

The **National Guard Armory (34)** is located between 15th Avenue West and the BNSF railroad right of way. This property is adjacent to the current bridge. The armory has been used since World War II as a supply depot for the National Guard. As such, it is likely that fuel and munitions, and possibly solvents in the form of degreasers, have been or are currently used or stored at this site. Because this site is rather large and the potential contamination is not “reasonably predictable,” the site is considered “substantially contaminated.” However, since there have been no known reports of contamination at the site, this site is considered a moderate risk to the project.

The Interbay Old Landfill property (35), located at 2501 15th Avenue West, approximately 2,500 feet north of the existing Magnolia Bridge and approximately 1,200 feet northeast of the C Alternative alignment. This property was occupied by a Standard Oil Company service station in approximately 1958 (at 2555 15th Avenue West), which had oil-burning heat and four USTs. The property has been occupied by a golf driving range from 1963 to the present. This property is currently awaiting a site hazard assessment. According to the EDR report, this property is listed in the CSCSL database and has suspected halogenated VOCs, EPA priority pollutants, pesticides, and PAHs in soil, groundwater, and surface water. According to Ecology files, the landfill was capped after seepage was observed at the northwest corner in 1986. Effluent sampling for the Heavy Metals Control Program was conducted by Metro at the Interbay Golf Course in 1990. All values met Metro’s discharge limits. Other files concerning the environmental status of this landfill were requested, but were not available for review at Ecology. Landfill debris was observed in a geotechnical boring located outside of and southwest of the estimated limits of the landfill. This property is considered “substantially contaminated;” however, it is considered a low risk to the project because it is located at least 1,200 feet from the proposed alignments.

Environmental Consequences

Construction impacts are specifically related to areas where earthwork is anticipated and contamination is suspected to be present. In addition, ACBM could be encountered during demolition of structures. Secondary and cumulative impacts may also apply.

No Build Alternative

Potential Property Acquisition

Because no construction is involved in the No Build alternative, no property acquisition is anticipated.

Construction Impacts

Because no construction is involved in the No Build alternative, no construction impacts are anticipated.

Operation Impacts

Operation impacts for the No Build Alternative are expected to be similar to those of Alternatives A, C, and D. These impacts primarily include waste associated with runoff of contaminants entrained in stormwater and include fuel and lubricants, compounds from tires, and automobile engine coolants such as ethylene glycol. Operation impacts include potential catastrophic spills of hazardous materials or wastes resulting from vehicle accidents. Additional operational impacts may include pesticide use as part of a vegetation management program. These impacts are further discussed in the Water Quality Discipline Report.

Secondary and Cumulative Impacts

If the No Build Alternative is chosen, no earthwork would occur within the Magnolia Bridge Replacement Project study area. Contamination that would otherwise be cleaned up or controlled by the project would remain and could migrate.

Recommendations for Further Investigations

Because no construction would be involved in the No Build alternative, no further investigation is warranted.

Alternative A

Alternative A is located along West Garfield Street, adjacent to the route of the existing Magnolia Bridge. This alternative involves replacing the Magnolia Bridge with a new structure immediately south of the existing bridge.

Excavation for Alternative A is limited to earthwork associated bridge foundations and limited cuts for retaining walls. Because known or potentially contaminated sites were identified in or near the alignment area, soil and/or groundwater contamination may be encountered.

Potential Property Acquisition

Alternative A includes acquiring easements and/or right-of-ways on three validated sites: Fred Arnold Truck Sales property (887 square feet), the Tsubota Steel and Pipe property (445 square feet), and three parcels of the Port of Seattle property (total of 211,544-261,407 square feet). No property takes and/or building takes are currently anticipated under Alternative A.

The Fred Arnold Truck Sales property has been occupied by a used car lot since about 1980. Because auto repairs may be conducted at the site, there is the potential for petroleum, solvents, and metal contamination at the site.

The Tsubota Steel and Pipe property has been owned by Tsubota Steel and Pipe Co. since approximately 1956 and is listed on Ecology's UST, LUST, and WA ICR databases. According to Ecology files, two gasoline USTs were removed from the north end of the property at 1837 15th Avenue, and two more were removed from the southern end of the property at 1601 15th Avenue in 1990. The most recent sampling results indicate that the groundwater on the northern end of the site is contaminated with benzene at a maximum concentration of 1,280 ug/L). This concentration exceeded Ecology's MTCA Method A cleanup criteria at that time of 5 ug/L. Groundwater gradient is generally to the west, and depth to groundwater is approximately 0.5 to 1.5 feet bgs. The proposed alignment would pass through the southern end of this property. However, because of the high concentrations of benzene in the groundwater on the north end of the property, contaminated groundwater may be encountered.

The Port of Seattle property has a history of site uses, including freight staging, military supply, and ship fueling. The property is currently occupied by large parking areas for semi-tractor trailers as well as support buildings for the Port. Based on the history of site uses, the potential exists for petroleum, metals, munitions, and solvent contamination to be present in the soil and/or groundwater at this site.

If building demolition is planned, verification of the presence and quantities of ACBM and LBP occurring in and on the structures to be demolished would need to be completed prior to demolition. This would be accomplished as a predemolition building survey conducted by an Asbestos Hazard Emergency Response Act (AHERA) certified building inspector.

If SDOT acquires a contaminated property, SDOT could become liable for a site clean up. The Revised Code of Washington (RCW) 70-105D.040 identifies persons liable for a facility/property as: (1) the current or past facility owner/operator; (2) anyone who arranged for disposal/treatment of hazardous substances at the site; (3) anyone who transported hazardous substances for disposal/treatment at the site, unless it could legally receive the materials at the time of transport; or 4) anyone who sells a hazardous substance with written instructions for its use, and abiding by the instructions results in contamination. In situations where there is more than one liable party, each party is jointly and severally liable for costs associated with cleanup of a site and cost to repair damages to natural resources.

To avoid liability, SDOT must perform "all appropriate inquiry" prior to obtaining any contaminated properties. If the inquiry identifies actual soil and/or groundwater contamination, SDOT may pursue a right of action with past or current owners of the property (A private right of action is a legal claim authorized by RCW

70.105D.080 under which a person may recover costs of remedial action from other persons liable under the act). If the source of contamination is on an adjacent property, the persons liable for the adjacent contamination would be responsible for cost associated with cleanup of a site and cost to repair damages to natural resources.

Construction Impacts

Construction activity impacts differ from operation impacts in that the duration of the impacts takes place during construction or within a short period of time after construction. Construction impacts do not exist in the long term.

Although most land uses that would typically involve hazardous wastes have been identified in this report, no level of reasonable inquiry can ensure that all contamination is identified. Encountering unknown or undocumented hazardous waste in the project area is possible and could impact the construction schedule, project costs, and the health and safety of workers. With proper planning and training, contamination not previously identified but which could be encountered during construction can be recognized, isolated, and contained or remediated so as to minimize cost and schedule impact.

In addition to construction risks as a result of exposure of known or unknown contamination, construction activities can result in generation of hazardous wastes and introduction of those wastes to the environment. Fuel and hydraulic leaks and spills from construction machinery are possible. Chemicals that can be released from uncured asphalts used for road surfacing can be toxic. Use of these and other construction materials presents some risk to the environment.

Construction impacts may arise if contaminated soil and/or groundwater is encountered during proposed construction activities (e.g., drill shafts for bridge foundations and associated excavation for pile caps). Contaminants that may be encountered include petroleum hydrocarbons, metals, PCBs, creosote, VOCs, SVOCs, and PAHs. Most of these contaminants are not considered reasonably predictable. In addition, earthwork associated with bridge support structures and/or dewatering activities may encounter contamination and/or modify contaminant migration pathways.

Other construction impacts involve the demolition of structures. While no structures appear slated for demolition under this alternative, based on the ages of nearby structures, ACBM and LBP are likely present. Verification of the presence of ACBM and LBP, and an estimation of the quantities of each material occurring in and on the structure to be demolished, would need to be completed prior to demolition. This would be accomplished as a pre-demolition building survey conducted by an AHERA-certified building inspector.

Worker and Public Health and Safety Concerns — Issues related to worker public health and safety issues discussed here are specific to potential exposures of pollutants and hazardous materials and wastes encountered or generated during construction activities. Physical hazards of construction activities are not addressed.

Workers would be at risk from hazardous materials and waste encountered or generated during construction because of the duration of their potential exposure and proximity to areas where such materials may be encountered or used. The primary means of exposure would be inhalation of dusts or vapors containing hazardous substances generated during construction activities, such as excavation in areas with

contaminated soils. Also, if buildings are acquired and demolished, demolition activities could expose workers and the surrounding public to asbestos and/or lead, if present.

Encountering unanticipated contamination could expose workers to potentially toxic concentrations and could create other hazardous situations, such as explosive environments. Air quality and associated health concerns could be affected as a result of disturbing volatile substances during construction.

Minor spills of materials used in construction, such as fuels, lubricants, and hydraulic fluids, typically occur during construction operations. Exposure to such accidental releases could damage skin, eyes, lungs, and other organs. Unless a spill is a major event, it is not anticipated to present significant risk to human health. Chemicals potentially released from uncured asphalts in road surfacing also present some exposure risk. All workers have a legal right to know about potentially hazardous conditions in the workplace and would be trained in hazard recognition, as well as how to respond to and report such conditions.

Public health risk could also arise as a result of accidental release or diversion of contaminants to environmentally sensitive areas, such as surface waters, groundwaters, public drinking water systems, or public air spaces. Releases to such areas could provide direct or indirect pathways of contaminant exposure to the general public.

Operation Impacts

Impacts of hazardous materials and waste from normal operations of Magnolia Bridge are primarily associated with runoff of contaminants entrained in storm water.

Contaminants likely to be in storm water runoff include fuel and lubricants, compounds from tires, and automobile engine coolants such as ethylene glycol. Storm water and water quality treatment facilities would be designed to collect and retain pollutants from traffic operations. Operation impacts include potential catastrophic spills of hazardous materials or wastes resulting from vehicle accidents. Additional operational impacts may include pesticide use as part of a vegetation management program. These impacts are further discussed in the Water Quality Discipline Report.

Secondary and Cumulative Impacts

Secondary and cumulative impacts for Alternative A could result from the use of hazardous materials during construction and/or from encountering sites with existing soil or groundwater contamination. The likelihood of impacts from encountering contaminated sites would depend on the type and extent of contamination. Employing appropriate control, cleanup, and disposal measures would minimize the likelihood of impacts.

Secondary impacts associated with Alternative A include:

- (1) Contamination may be discovered and addressed by the project that otherwise would have remained in place and potentially migrated.
- (2) Contamination may be cleaned up faster to accommodate project construction.

- (3) Contamination may be prevented by removing potential hazardous material release sources, such as USTs, before a release occurs.
- (4) Contaminated materials may be uncovered, allowing more direct exposure to the public.
- (5) Contamination may be spread as a result of construction. For example, new contamination migration pathways may be created during drilling activities and/or construction of underground utility corridors.

A cumulative impact of Alternative A may be that there would be fewer contaminated sites in the Magnolia Bridge vicinity due to cleanup activities associated with the project.

Recommendations for Further Investigations in the Right of Way

Preliminary Site Investigations (PSIs) are recommended for the proposed easements and/or right-of-ways on the Tsubota Steel and Pipe property, the Fred Arnold Truck Sales property, and the Port of Seattle property where excavation associated with bridge support structures is proposed. Based on the historic uses of these properties, there is a potential that soil and/or groundwater contamination is present at one or more of these properties. None of these properties will be acquired by SDOT for Alternative A, so costs for cleanup and/or disposal of contaminated soil and/or groundwater would be limited to media associated with excavation activities for construction. Excavation activities for this alternative are limited to drill shafts for bridge foundations, excavation for associated pile caps, and limited cuts for retaining walls. The cost to treat and/or dispose of contaminated soil and/or groundwater would not likely impact the selection of an alternative; therefore, the information derived from the PSIs would not be necessary until after the EIS has been completed and a preferred alternative has been selected. The PSIs would include soil and/or groundwater sampling in the bridge structure and retaining wall locations at regular intervals to the maximum depth of the proposed structure.

Based on existing data for the Port of Seattle Terminal 91 tank farm site, samples taken on the adjacent Port of Seattle property should be analyzed for VOCs; SVOCs; gasoline-, diesel-, and oil-range petroleum hydrocarbons; total metals (arsenic, chromium, lead, mercury, and zinc); and PCBs. Samples taken on the Tsubota property would be analyzed for petroleum and VOCs. Samples taken on the Fred Arnold Truck Sales property would be analyzed for petroleum, solvents, and metals.

PSIs are also recommended for the right-of-way adjacent to the following validated properties: the Port of Seattle Terminal 91 tank farm site, the Smith Cove Cleaners property, the Metro Interbay Pump Station, the Sammis Company Property, the former service station at 1534 15th Ave W, and the SPCC property. These properties have been identified as known or potentially contaminated sites that are immediately adjacent to the construction limits and may have impacted the right-of-way.

The PSI for the right-of-way adjacent to the Port of Seattle Terminal 91 tank farm site would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for VOCs; SVOCs; gasoline-, diesel-, and oil-range petroleum hydrocarbons; total metals (arsenic, chromium, lead, mercury, and zinc); and PCBs.

The PSI for the right-of-way adjacent to the Smith Cove Cleaners would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for VOCs.

The PSI for the right-of-way adjacent to the Metro Interbay Pump Station would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for petroleum hydrocarbons.

The PSI for the right-of-way adjacent to the Sammis Company property would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for petroleum hydrocarbons, metals, VOCs, solvents, and PAHs.

The PSI for the right-of-way adjacent to the former service station property located at 1534 15th Avenue West would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for petroleum hydrocarbons and lead.

The PSI for the right-of-way adjacent to the SPCC property would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for VOCs.

Alternative C

Alternative C involves constructing a new bridge that extends in a long arch approximately 1,800 feet north of the existing bridge.

Excavation for Alternative C is limited to earthwork associated bridge foundations and limited cuts for retaining walls. Because known or potentially contaminated sites were identified in or near the alignment area, soil and/or groundwater contamination may be encountered.

Potential Property Acquisition

No property takes are anticipated under Alternative C. Alternative C includes acquiring easements and/or right-of-ways on five validated sites: BNSF property (5,003 square feet), Tsubota Steel and Pipe property (4,248 square feet), the Fred Arnold Truck Sales property (3,989 square feet), the Port of Seattle Terminal 91 tank farm property (116,102 square feet), and seven parcels of the Port of Seattle property (total of 387,890 square feet). Three building takes associated with the proposed easements/right-of-ways are anticipated: the Fuel Supply Store building and adjacent building on the Port of Seattle Terminal 91 property, and the Northwest Harvest building on the Port of Seattle Property. Verification of the presence and quantities of ACBM and LBP occurring in and on the structures to be demolished would need to be completed prior to demolition. This would be accomplished as a pre-demolition building survey conducted by an AHERA-certified building inspector.

A number of potential concerns are associated with the railroad use of the BNSF property. Petroleum hydrocarbon contamination from wheel greasing is common on railroad properties, as is PAHs contamination from preservatives leaching out of railroad ties. In addition, accidental releases from tank cars may have occurred.

The Tsubota Steel and Pipe property has been owned by Tsubota Steel and Pipe Co. since approximately 1956 and is listed on Ecology's UST, LUST, and WA ICR

databases. According to Ecology files, two gasoline USTs were removed from the north end of the property at 1837 15th Avenue, and two more were removed from the southern end of the property at 1601 15th Avenue in 1990. The most recent sampling results indicate that the groundwater on the northern end of the site is contaminated with benzene at a maximum concentration of 1,280 ug/L). This concentration exceeded Ecology's MTCA Method A cleanup criteria at that time of 5 ug/L. Groundwater gradient is generally to the west, and depth to groundwater is approximately 0.5 to 1.5 feet bgs. The proposed alignment would pass through the southern end of this property. However, because of the high concentrations of benzene in the groundwater on the north end of the property, contaminated groundwater may be encountered.

The Fred Arnold Truck Sales property has been occupied by a used car lot since about 1980. Because auto repairs may be conducted at the site, there is the potential for petroleum, solvents, and metal contamination at the site.

The Port of Seattle Terminal 91 tank farm site is currently used as a bulk fuel storage facility and is occupied by a number of large petroleum storage tanks and associated support buildings. The site was in use as early as 1925 and has been used as an oil refinery, waste oil reclamation facility, and a generator and marketer of used oil fuel and hazardous waste fuel. The site appears on Ecology's UST, LUST, CSCSL, and WA ICR databases.

According to the files reviewed at Ecology, the soil and groundwater at this site has historically been contaminated with VOCs; SVOCs; gasoline-, diesel-, and oil-range petroleum hydrocarbons; metals (arsenic, chromium, lead, mercury, and zinc); and PCBs. During the last sampling event on record at Ecology, gasoline-, diesel-, and oil-range hydrocarbons; VOCs; arsenic; chromium; lead; and zinc were detected in the groundwater; however, only gasoline-range hydrocarbons exceeded the MTCA Method A cleanup level. Additionally, LNAPL was present in 8 of the 29 groundwater monitoring wells on the property. Remediation is ongoing and includes passive LNAPL product recovery. However, the results of groundwater monitoring indicate that the horizontal extent of impacted soil and groundwater appears to extend beyond the boundaries of the monitoring network. The general groundwater gradient at the property appears to be south-southwest, toward the current bridge; therefore, contamination is likely to be encountered in the project area.

The Port of Seattle property has a history of site uses including freight staging, military supply, and ship fueling. The property is currently occupied by large parking areas for semi-tractor trailers as well as support buildings for the Port. Based on the history of site uses, there is the potential for petroleum, metals, munitions, and solvent contamination to be present in the soil and/or groundwater at this site.

If SDOT acquires a contaminated property, SDOT could become liable for a site clean up. The RCW 70-105D.040 identifies persons liable for a facility/property as: (1) the current or past facility owner/operator; (2) anyone who arranged for disposal/treatment of hazardous substances at the site; (3) anyone who transported hazardous substances for disposal/treatment at the site, unless it could legally receive the materials at the time of transport; or (4) anyone who sells a hazardous substance with written instructions for its use, and abiding by the instructions results in contamination. In situations where there is more than one liable party, each party

is jointly and severally liable for costs associated with cleanup of a site and cost to repair damages to natural resources.

To avoid liability, SDOT must perform “all appropriate inquiry” prior to obtaining any contaminated properties. If the inquiry identifies actual soil and/or groundwater contamination, SDOT may pursue a right of action with past or current owners of the property (A private right of action is a legal claim authorized by RCW 70.105D.080 under which a person may recover costs of remedial action from other persons liable under the act). If the source of contamination is on an adjacent property, the persons liable for the adjacent contamination would be responsible for cost associated with cleanup of a site and cost to repair damages to natural resources.

Construction Impacts

Construction Impacts are the same as Alternative A.

Operation Impacts

Operation Impacts are the same as Alternative A.

Secondary and Cumulative Impacts

Secondary and Cumulative Impacts are the same as Alternative A.

Recommendations for Further Investigations

PSIs are recommended for the proposed easements and/or right-of-ways on the Port of Seattle property, the Port of Seattle Terminal 91 property, the BNSF property, the Tsubota Steel and Pipe property, and the Fred Arnold Truck Sales property where excavation associated with bridge support structures and retaining walls is proposed. Based on the historic uses of these properties, there is a potential that soil and/or groundwater contamination is present at one or more of these properties. None of these properties will be acquired by SDOT for Alternative C, so costs for cleanup and/or disposal of contaminated soil and/or groundwater would be limited to media associated with excavation activities for construction. Excavation activities for this alternative are limited to drill shafts for bridge foundations, excavation for associated pile caps, and limited cuts for retaining walls. The cost to treat and/or dispose of contaminated soil and/or groundwater would not likely impact the selection of an alternative; therefore, the information derived from the PSIs would not be necessary until after the EIS has been completed and a preferred alternative has been selected. The PSIs would include soil and/or groundwater sampling in the bridge structure and retaining wall locations at regular intervals to the maximum depth of the proposed structure. The PSIs would include soil and/or groundwater sampling in the bridge structure and retaining wall locations at regular intervals to the maximum depth of the proposed structure.

Based on existing data for the Port of Seattle Terminal 91 tank farm site, samples taken on this property and the adjacent Port of Seattle property would be analyzed for VOCs; SVOCs; gasoline-, diesel-, and oil-range petroleum hydrocarbons; total metals (arsenic, chromium, lead, mercury, and zinc); and PCBs. Samples taken on the BNSF property would be analyzed for petroleum and PAHs. Samples taken on the Tsubota Steel and Pipe property would be analyzed for petroleum and VOCs. Samples taken on the Fred Arnold Truck Sales property would be analyzed for petroleum, solvents, and metals.

PSIs are also recommended for the right-of-way adjacent to the following validated properties: Smith Cove Cleaners, the Metro Interbay Pump Station, the Sammis Company Property, the former service station at 1534 15th Ave W, and the SPCC property. These properties have been identified as known or potentially contaminated sites that are immediately adjacent to the construction limits and may have impacted the right-of-way.

The PSI for the right-of-way adjacent to the Smith Cove Cleaners would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for VOCs.

The PSI for the right-of-way adjacent to the Metro Interbay Pump Station would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for petroleum hydrocarbons.

The PSI for the right-of-way adjacent to the Sammis Company property would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for petroleum hydrocarbons, metals, VOCs, solvents, and PAHs.

The PSI for the right-of-way adjacent to the former service station property located at 1534 15th Avenue West would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for petroleum hydrocarbons and lead.

The PSI for the right-of-way adjacent to the SPCC property would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for VOCs.

Alternative D

Alternative D is directed to the north of West Garfield Street and the Terminal 91 tank farm. This alternative involves constructing a new bridge that arcs approximately 570 feet north of the existing bridge.

Excavation for Alternative D is limited to earthwork associated bridge foundations and limited cuts for retaining walls. Because known or potentially contaminated sites were identified in or near the alignment area, soil and/or groundwater contamination may be encountered.

Potential Property Acquisition

No property takes are anticipated under Alternative D. Alternative D includes acquiring easements and/or right-of-ways on five validated sites: BNSF property (17,846 square feet), Tsubota Steel and Pipe property (17,318 square feet), the Fred Arnold Truck Sales property (4,845 square feet), the Port of Seattle Terminal 91 tank farm property (20,956 square feet), and six parcels of the Port of Seattle property (total of 292,577-310,686 square feet). Four building takes associated with the proposed easements/right-of-ways are anticipated: the Northwest Harvest building and the City Ice Cold Storage building on the Port of Seattle Property, the Fuel Supply Store building on the Port of Seattle Terminal 91 property, and the abandoned warehouse on the Tsubota Steel and Pipe property. Verification of the presence and quantities of ACBM and LBP occurring in and on the structures to be demolished would need to be completed prior to demolition. This would be

accomplished as a pre-demolition building survey conducted by an AHERA-certified building inspector.

A number of potential concerns are associated with the railroad use of the BNSF property. Petroleum hydrocarbon contamination from wheel greasing is common on railroad properties, as is PAHs contamination from preservatives leaching out of railroad ties. In addition, accidental releases from tank cars may have occurred.

The Tsubota Steel and Pipe property has been owned by Tsubota Steel and Pipe Co. since approximately 1956 and is listed on Ecology's UST, LUST, and WA ICR databases. According to Ecology files, two gasoline USTs were removed from the north end of the property at 1837 15th Avenue, and two more were removed from the southern end of the property at 1601 15th Avenue in 1990. The most recent sampling results indicate that the groundwater on the northern end of the site is contaminated with benzene at a maximum concentration of 1,280 ug/L). This concentration exceeded Ecology's MTCA Method A cleanup criteria at that time of 5 ug/L. Groundwater gradient is generally to the west, and depth to groundwater is approximately 0.5 to 1.5 feet bgs. The proposed alignment would pass through the southern end of this property. However, because of the high concentrations of benzene in the groundwater on the north end of the property, contaminated groundwater may be encountered.

The Fred Arnold Truck Sales property has been occupied by a used car lot since about 1980. Because auto repairs may be conducted at the site, there is the potential for petroleum, solvents, and metal contamination at the site.

The Port of Seattle Terminal 91 tank farm site is currently used as a bulk fuel storage facility and is occupied by a number of large petroleum storage tanks and associated support buildings. The site was in use as early as 1925 and has been used as an oil refinery, waste oil reclamation facility, and a generator and marketer of used oil fuel and hazardous waste fuel. The site appears on Ecology's UST, LUST, CSCSL, and WA ICR databases.

According to the files reviewed at Ecology, the soil and groundwater at this site has historically been contaminated with VOCs; SVOCs; gasoline-, diesel-, and oil-range petroleum hydrocarbons; metals (arsenic, chromium, lead, mercury, and zinc); and PCBs. During the last sampling event on record at Ecology, gasoline-, diesel-, and oil-range hydrocarbons; VOCs; arsenic; chromium; lead; and zinc were detected in the groundwater; however, only gasoline-range hydrocarbons exceeded the MTCA Method A cleanup level. Additionally, LNAPL was present in 8 of the 29 groundwater monitoring wells on the property. Remediation is ongoing and includes passive LNAPL product recovery. However, the results of groundwater monitoring indicate that the horizontal extent of impacted soil and groundwater appears to extend beyond the boundaries of the monitoring network. The general groundwater gradient at the property appears to be south-southwest, toward the current bridge; therefore, contamination is likely to be encountered in the project area.

The Port of Seattle property has a history of site uses including freight staging, military supply, and ship fueling. The property is currently occupied by large parking areas for semi-tractor trailers as well as support buildings for the Port. Based on the history of site uses, there is the potential for petroleum, metals, munitions, and solvent contamination to be present in the soil and/or groundwater at this site.

If SDOT acquires a contaminated property, SDOT could become liable for a site clean up. The RCW 70-105D.040 identifies persons liable for a facility/property as: (1) the current or past facility owner/operator; (2) anyone who arranged for disposal/treatment of hazardous substances at the site; (3) anyone who transported hazardous substances for disposal/treatment at the site, unless it could legally receive the materials at the time of transport; or (4) anyone who sells a hazardous substance with written instructions for its use, and abiding by the instructions results in contamination. In situations where there is more than one liable party, each party is jointly and severally liable for costs associated with cleanup of a site and cost to repair damages to natural resources.

To avoid liability, SDOT must perform “all appropriate inquiry” prior to obtaining any contaminated properties. If the inquiry identifies actual soil and/or groundwater contamination, SDOT may pursue a right of action with past or current owners of the property (A private right of action is a legal claim authorized by RCW 70.105D.080 under which a person may recover costs of remedial action from other persons liable under the act). If the source of contamination is on an adjacent property, the persons liable for the adjacent contamination would be responsible for cost associated with cleanup of a site and cost to repair damages to natural resources.

Construction Impacts

Construction Impacts are the same as Alternative A.

Operation Impacts

Operation Impacts are the same as Alternative A.

Secondary and Cumulative Impacts

Secondary and Cumulative Impacts are the same as Alternative A.

Recommendations for Further Investigations

PSIs are recommended for the proposed easements and/or right-of-ways on the Port of Seattle property, the Port of Seattle Terminal 91 property, the BNSF property, the Tsubota Steel and Pipe property, and the Fred Arnold Truck Sales property where excavation associated with bridge support structures and retaining walls is proposed. Based on the historic uses of these properties, there is a potential that soil and/or groundwater contamination is present at one or more of these properties. None of these properties will be acquired by SDOT for Alternative D, so costs for cleanup and/or disposal of contaminated soil and/or groundwater would be limited to media associated with excavation activities for construction. Excavation activities for this alternative are limited to drill shafts for bridge foundations, excavation for associated pile caps, and limited cuts for retaining walls. The cost to treat and/or dispose of contaminated soil and/or groundwater would not likely impact the selection of an alternative; therefore, the information derived from the PSIs would not be necessary until after the EIS has been completed and a preferred alternative has been selected. The PSIs would include soil and/or groundwater sampling in the bridge structure and retaining wall locations at regular intervals to the maximum depth of the proposed structure. The PSIs would include soil and/or groundwater sampling in the bridge structure and retaining wall locations at regular intervals to the maximum depth of the proposed structure.

Based on existing data for the Port of Seattle Terminal 91 tank farm site, samples taken on this property and the adjacent Port of Seattle property would be analyzed for VOCs; SVOCs; gasoline-, diesel-, and oil-range petroleum hydrocarbons; total metals (arsenic, chromium, lead, mercury, and zinc); and PCBs. Samples taken on the BNSF property would be analyzed for petroleum and PAHs. Samples taken on the Tsubota Pipe and Steel property would be analyzed for petroleum and VOCs. Samples taken on the Fred Arnold Truck Sales property would be analyzed for petroleum, solvents, and metals.

PSIs are also recommended for the right-of-way adjacent to the following validated properties: Smith Cove Cleaners, the Metro Interbay Pump Station, the Sammis Company Property, the former service station at 1534 15th Ave W, and the SPCC property. These properties have been identified as known or potentially contaminated sites that are immediately adjacent to the construction limits and may have impacted the right-of-way.

The PSI for the right-of-way adjacent to the Smith Cove Cleaners would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for VOCs.

The PSI for the right-of-way adjacent to the Metro Interbay Pump Station would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for petroleum hydrocarbons.

The PSI for the right-of-way adjacent to the Sammis Company property would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for petroleum hydrocarbons, metals, VOCs, solvents, and PAHs.

The PSI for the right-of-way adjacent to the former service station property located at 1534 15th Avenue West would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for petroleum hydrocarbons and lead.

The PSI for the right-of-way adjacent to the SPCC property would include soil and/or groundwater sampling in the right-of-way adjacent to the property. Samples would be analyzed for VOCs.

Mitigation Measures

Contamination is likely to be encountered during construction in each alternative. The project may avoid some areas of contamination by not acquiring properties that have been identified as having known or potential contamination. However, contamination may not be avoidable in areas of right-of-ways where earthwork is anticipated. If contamination is encountered during project construction, mitigation would likely include (1) minimizing the volume of contaminated soil and/or groundwater encountered, and (2) disposing of contaminated soil and/or groundwater encountered.

Avoidance & Minimization

The preferred method for dealing with contaminated sites is to avoid them. Because no construction is associated with the No Build Alternative, contaminated sites would be avoided. Of the build alternatives, Alternative A would avoid any building takes and the associated ACBM and LBP handling and disposal. Alternative C would involve less building takes than Alternative D.

All of the build alternatives include easements and/or right-of-ways on validated properties. Because it is not feasible to avoid all validated properties, there are various means of minimizing potential liability, including but not limited to:

- Leasing rather than purchasing property.
- Obtaining a surface easement rather than purchasing right-of-ways.
- Negotiating performance bonds, indemnification to ensure property owner bears financial responsibility for pre-existing contamination.
- Having the property owner clean up the property prior to acquisition.

For all of the build alternatives, contamination may not be avoidable in areas of the right-of-way where earthwork is anticipated. To minimize the amount of contamination encountered, we recommend that a PSI be performed in areas where excavation and/or drilling are expected to evaluate the location and extent of contamination in order to avoid “hot spots.” Alternative construction techniques, such as casing of drilled shafts, would minimize or avoid contamination. For bridge foundations, driven piles where concrete is tremied into place would be used instead of drilled shafts, if feasible, to limit the volume of water produced and the impact of the project on the distribution of contaminants.

Remediation of petroleum contamination, ACBM, and building materials with LBP, if encountered, can be considered reasonably predictable. Remediation of other contaminants that may be encountered, such as metals, PCBs, VOCs, SVOCs, and PAHs, is not considered reasonably predictable because these contaminants are typically persistent and/or expensive to manage.

Cleanup and Disposal Options

Mitigation measures that would be required as part of the construction planning include development of spill prevention, control, and countermeasure (SPCC) plans, erosion and sedimentation control plans, and plans for handling and disposal of

known and unanticipated contamination. Development and implementation of these plans may be conditions of permits required for the project and are required as part of the City's Drainage Code.

Although most contaminated sites potentially affecting the project have been identified, the possibility of encountering unknown contamination cannot be eliminated. SDOT standard specifications provide guidelines for addressing discoveries of unanticipated contamination. Contractors who are likely to encounter unknown contamination would be required to be capable of identifying and rapidly responding to these situations. Workers would be apprised of the possibility of encountering contaminated areas. The contractor would be required to have a site Health & Safety Plan that describes monitoring requirements, and the use of personal protective equipment would be necessary for workers that come in contact with contaminated media.

Proposed construction activities include construction of bridge decks, retaining walls, and on-ramps and off-ramps in the project area. Because known or potentially contaminated sites have been identified in or near the project area, soil and/or groundwater contamination may be encountered. Potential contaminants include petroleum hydrocarbons, metals, PCBs, VOCs, SVOCs, and PAHs.

Mitigation Options for Petroleum Contamination

Petroleum-contaminated soil and groundwater associated with bulk fuel storage, service stations/auto repair and heating oil tanks may be encountered in the project area. Due to the low mobility of heating oil, impacts associated with heating oil tanks and releases from them could be adequately mitigated during construction activities, provided that construction plans and specifications address this potential.

Soils

Petroleum-contaminated soils can be evaluated relative to current MTCA Method A cleanup levels or to Ecology's risk-based TPH criteria. Method A cleanup levels are conservative and are not risk based. Soil cleanup actions using Method A cleanup would likely result in more soil having to be remediated than would be required under the risk-based cleanup. Method A would be easier to implement, and would allow for more rapid determination of remediation requirements than would be realized using the risk-based evaluation. Use of the risk-based approach, however, would result in more flexible cleanup levels and would allow more petroleum-contaminated soil to remain on site or to be used as road fill material in the project area.

Petroleum-contaminated soils encountered unexpectedly would require stockpiling and testing to assess the regulatory classification of the soil and the most cost-effective remediation strategy. Management options for petroleum-contaminated soils include:

- (1) Soils containing petroleum hydrocarbons could be placed under roadways, if adequate fill capacity exists and soils meet geotechnical fill requirements, provided they didn't exceed a maximum, site-specific, risk-based, contaminant concentration.
- (2) Petroleum hydrocarbon-contaminated soils that exceed risk-based contaminant concentrations, or soil in excess of the quantity required for fill, could be

transported to a thermal treatment facility. Alternatively, the soil could be disposed at a landfill permitted to accept such contaminated soils.

Groundwater

If contaminated groundwater is identified, approaches are available to minimize the volume of water produced during construction. For the bridge supports, the use of driven piles or drilled piles where the concrete is tremied into place, could limit the volume of water produced and the impact of the project on the distribution of contaminants. This approach would limit migration of groundwater into the right-of-way, so large-scale groundwater mitigation is not expected to be required. Localized perched zones of groundwater may be encountered.

Where contaminated groundwater is produced, containerization and characterization would be required to determine the approach to treatment. Groundwater that does not exceed MTCA Method A cleanup levels could be discharged directly or indirectly to the ground surface or surface water, provided that discharge conforms to criteria defined in Washington Administrative Code (WAC) 173-201A, Water Quality Standards for Surface Waters in Washington State.

Groundwater that is above MTCA Method A cleanup levels could also be treated to meet requirements for local discharge. Local disposal could include: (1) discharge to the ground surface, (2) discharge to surface water, (3) discharge to a publicly owned treatment works (POTW), or (4) off-site disposal at a private treatment, storage, and disposal (TSD) facility. Discharge of contaminated water to the ground surface would require conformance with MTCA Method A cleanup criteria and would require an NPDES permit from Ecology. Discharge directly or indirectly to surface water would require conformance with criteria defined in WAC 173-201A, Water Quality Standards for Surface Waters in Washington State and would likely require a Waste Discharge Permit from Ecology. Discharge to a POTW would generally require a discharge permit from the City of Seattle, and would require conformance with King County criteria. Discharge to the sanitary sewer would require a King County Waste Discharge Permit. Discharge to a private TSD would require conformance with the TSD facility-specific criteria.

Mitigation Options for VOCs and/or EPA Priority Pollutants

VOCs potentially associated with dry-cleaning operations, tank farms, paint manufacturers and other businesses that use solvents, may be encountered during construction of the tunnel or bridge support structures.

Soil

If soil contamination is identified, soil would likely require stockpiling and testing to determine its regulatory status and the most cost-effective management strategies. Concentrations of VOCs and EPA priority pollutants can be evaluated relative to Method A or B cleanup levels to assess whether the soils would be of concern. Method A or B could be used to determine disposal strategies in locations where small amounts of contaminated soils are present, where soils need to be removed and disposed of quickly, and where soils can be easily used as subgrade road material.

Soils failing the Toxicity Characteristic Leaching Procedure (TCLP) or exceeding other dangerous waste criteria would need to be handled as Washington State

dangerous waste. Generators of dangerous waste are required to obtain an identification (ID) number for each site (location), which can be done after soils have been determined to be dangerous waste. ID numbers can be obtained by completing Ecology's Form 2 (<http://www.ecy.wa.gov/pubs/91028.pdf>). If pre-construction explorations are used to determine where dangerous waste will be encountered, an ID number along with planning for soil handling and disposal can be completed prior to construction. This would reduce soil handling time and potential for exposure or release to the environment as soils could then be loaded onto trucks during excavation and hauled to appropriate treatment or disposal facilities.

Handling options of contaminated soils include:

- Soils that do not exceed Method A cleanup levels could be placed under roadways, if adequate fill capacity exists and soils meet geotechnical fill requirements.
- Soils that do not exceed dangerous waste criteria or are in excess of what was required for fill could be transported to a landfill or be thermally treated.
- Soils designated as dangerous waste would be transported to a hazardous waste landfill or incinerator.

Groundwater

If contaminated groundwater is identified, approaches are available to minimize the volume of water produced during construction. For the bridge supports the use of driven piles or drilled piles where the concrete is tremied into place could limit the volume of water produced and the impact of the project on the distribution of contaminants. This approach would limit migration of groundwater into the right-of-way, so large-scale groundwater mitigation is not expected to be required. Localized, perched zones of groundwater may be encountered.

Where contaminated groundwater is produced, containerization and characterization would be required to determine the approach to treatment. Groundwater that does not exceed MTCA Method A cleanup levels could be discharged directly or indirectly to the ground surface or surface water, provided that discharge conforms to criteria defined in WAC 173-201A, Water Quality Standards for Surface Waters in Washington State.

Contaminated groundwater at concentrations below the dangerous waste criteria could be treated to meet requirements for local discharge. Local disposal could include: (1) discharge to the ground surface; (2) discharge to surface water; (3) discharged to a publicly owned treatment works or 4) off-site disposal at a private TSD facility. Discharge of contaminated water to the ground surface would require conformance with MTCA Method A cleanup criteria and would require an NPDES permit from Ecology. Discharge directly or indirectly to surface water would require conformance with criteria defined in WAC 173-201A, Water Quality Standards for Surface Waters in Washington State, and would likely require a Waste Discharge Permit from Ecology. Discharge to the sanitary sewer would require a King County Waste Discharge Permit. Discharge to a private TSD would require conformance with the TSD facility-specific criteria.

Groundwater that is designated as dangerous waste would require disposal at a hazardous waste TSD.

Contaminated Building Debris

For structures that would be acquired or modified, verification of the presence of ACBM and LBP and an estimation of the quantities of each material occurring in and on the structure to be demolished would need to be completed prior to demolition. Demolition and disposal of these materials requires special handling. This would be accomplished as a pre-demolition building survey conducted by an AHERA-certified building inspector. If ACBM were identified, mitigation would consist of removing these materials in compliance with the Washington Industrial Safety and Health Act (WISHA) prior to building demolition and disposing of them in an approved facility.

No mitigation options are available for disposal of ACBM. Such materials would need to be removed from any buildings slated for destruction before demolition activities occurred, and disposed of in a lined landfill. A comprehensive building survey and sampling program prior to demolition would help limit the amount of material that would need to be removed and placed in the landfill, thereby minimizing costs.

The dangerous waste criteria for lead, measured by the Toxicity Characteristic Leaching Procedure (TCLP), is 5.0 mg/L. If treated as a separate waste, it is possible that materials containing high concentrations of LBP would exceed the dangerous waste criteria. However, when these materials are combined with other building debris that does not contain significant amounts of lead in the overall waste stream, it is likely that the combined waste stream would not fail the TCLP criteria and would not require designation as a dangerous waste.

Preliminary Cleanup Cost Estimate

Underground Storage Tank Removal/Closure Costs

The following cost estimates are for tank removal and disposal only and do not include the cost of over-excavation or trucking of soil to the selected disposal/treatment facility, if required.

Household Heating Oil Tank	\$1,000 per tank
Service Station Tank	\$3,000 to \$8,000 per tank
Product/Sludge Disposal	\$2 to \$4 per gallon
Site Assessment/Reconnaissance (No Known Release)	\$1,500 to \$5,000 per site

Soil Disposal and Treatment Costs

The following cost estimates are for soil disposal only and do not include the cost of excavation or trucking to the selected disposal/treatment facility.

Petroleum-Contaminated Soils

Thermal Treatment	\$30 to \$35 per ton
Landfill Disposal	\$30 per ton

Halogenated Solvent-, EPA Priority Pollutant- and/or Corrosive Waste-Contaminated Soil

Landfill Disposal – Non-Dangerous Waste	\$30 per ton
Landfill Disposal – Dangerous Waste (metals)	\$180 per ton
Landfill Disposal – Dangerous Waste (organics)	\$430 per ton
Incineration – Dangerous Waste	\$600 per ton

Groundwater Treatment and/or Disposal Costs

Groundwater treatment and/or disposal options include permitting for local discharge and/or off-site treatment and disposal.

Dewatering water: On-site treatment and disposal, \$0.0016 per gallon.

Off-site Treatment and Disposal: \$0.25 to \$2 per gallon depending upon type and level of contaminants present.

Contaminated Building Debris Costs

The cost estimates provided in this section are presented on a unit cost-basis, because the volume of potential ACBM that could be encountered during the proposed action is not known at this time.

Pre-Demolition Building Survey - \$1,500 to \$6,000 per structure depending on the size of structure and the number of structures involved.

Asbestos Abatement - The following includes a sample list of ACBM that could be found in the various buildings and their associated removal/disposal costs. Estimated costs for preparing abatement specifications and for providing abatement oversight are also included.

Ceiling Tiles	\$2 to \$3 per square foot
Textured Ceiling (popcorn)	\$5 to \$7 per square foot
Fire Doors	\$50 to \$75 per door
Sheet Flooring	\$3 to \$5 per square foot
Floor Tiles (9- or 12-inch)	\$1 to \$2 per square foot
Mastic (floor tile or sheet flooring)	\$2 to \$4 per square foot
Wallboard, Tape and Mud	\$2 to \$4 per square foot
Roofing (built-up)	\$1 to \$2 per square foot
Roof Patching	\$1 to \$2 per square foot
Puget Sound Clean Air Agency permit fee	\$25 to \$2,000 depending on the size of project and the number of structures involved
Preparation of Abatement Specifications	\$5,000 to \$15,000
Abatement Oversight	\$500 or 10% of total abatement costs, whichever is greater

Federal, State, and Local Regulations

Numerous federal, state, and local regulations and policies govern decisions concerning hazardous materials and hazardous waste potential and liability issues. Federal law and regulations relating to hazardous materials and wastes that affect the project include the following:

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

CERCLA and the Superfund Amendments and Reauthorization Act (SARA) define liability for hazardous waste contamination and require liable parties to take responsibility for cleanup. This relates to acquisition of properties for the project that may have been previously contaminated. The purpose of this discipline report is, in part, to address liability issues relating to identification of, and acquisition of, previously contaminated property.

Resource Conservation and Recovery Act (RCRA)

RCRA provides requirements for the handling, transportation, treatment, storage, and disposal of hazardous materials and wastes. It includes provisions for identifying and classifying hazardous materials and wastes, and through the Hazardous and Solid Waste Amendments (HSWA), creates treatment standards for specific wastes. HSWA also establishes requirements for ownership, operation, maintenance, and closure of underground storage tanks. Any removal, treatment, or transportation of contaminated soils as part of the proposed project would need to be conducted in compliance with RCRA.

Toxic Substances Control Act (TSCA)

TSCA allows EPA to regulate existing chemicals when they pose an unreasonable risk to health or to the environment, and to regulate their distribution and use. Under TSCA Section 6, EPA can limit or ban manufacturing and distribution, require labeling, or place other restrictions. Chemicals regulated include asbestos, lead (such as lead-based paint), and PCBs. If these chemicals were encountered, they would have to be handled and disposed of in compliance with relevant sections of TSCA.

Occupational Safety and Health Act (OSHA)

OSHA establishes requirements for site safety procedures, worker training, and worker safety and health standards for employees engaged in work related to hazardous materials. All work relating to the handling of and potential exposure to hazardous substances by workers while conducting activities associated with the project must be in compliance with the relevant sections of OSHA.

Clean Air Act (CAA)

The CAA provides for comprehensive federal regulation of all sources of air pollution. Any activities associated with the Magnolia Bridge Replacement project that have the potential to introduce hazardous substances to air (excavation near the Interbay Old Landfill, for example) must be in compliance with the CAA. Discharge to air (including fugitive dust, asbestos, and hazardous chemicals) would

be enforced at the state and local municipality level through Puget Sound Clean Air Agency.

Clean Water Act (CWA)

The CWA provides for comprehensive federal regulation of all sources of water pollution. Any activities associated with the proposed project that have the potential to introduce hazardous substances to surface waters, including wetlands, must be in compliance with CWA. Several permit programs have been established to address these issues. Permits and approvals required under CWA for the project that would require addressing hazardous substance issues include a NPDES General Stormwater Permit for Construction Activities, which requires the development and implementation of a Stormwater Pollution Prevention Plan.

Safe Drinking Water Act (SDWA) - 42 United States Code (USC) Section 300 (f)

This section of the SDWA provides for comprehensive federal regulation that ensures the quality of drinking water. The EPA sets standards for drinking water quality and oversees the states' water suppliers who implement those standards. Source water protection is addressed under the regulation, and states can use legal authority from other laws to prevent pollution.

National Environmental Policy Act (NEPA)

NEPA requires that all actions sponsored, funded, permitted, or approved by federal agencies undergo planning to ensure that environmental considerations are given due weight in project decisionmaking. Because funding for the proposed project likely would be partially from the Federal Highway Administration, NEPA compliance is required. One of the major elements addressed in a NEPA assessment is Environmental Health. Assessment of impacts associated with hazardous materials and waste is a component of the Environmental Health evaluation.

Washington State implements many of the federal statutes pertaining to hazardous materials and wastes along with its own, often more stringent, laws and regulations. These requirements, listed below, take precedence over all other laws for governing business and operations within the state.

Model Toxics Control Act Cleanup Regulation (MTCA)

WAC 173-340 implements MTCA, Revised Code of Washington (RCW) 70.105D. This provides strict requirements for site discovery and reporting, site assessments, and hazardous site listing. This regulation defines standard methods used to assess whether a site is contaminated or clean. This regulation specifically relates to any hazardous materials and water investigations associated with the project. Cleanup standards for hazardous wastes are promulgated under MTCA. Cleanup of contaminated sites is likely to be accomplished as independent actions, with technical review provided by Ecology on an as-needed basis as provided for under MTCA.

Dangerous Waste Regulations

WAC 173-303 implements RCRA and the Hazardous Waste Management Act, RCW 70-105. This provides for waste identification procedures unique to

Washington State. Detailed requirements for forms and rules related to manifesting and transporting of hazardous waste are included. As stated above, any handling, treatment, or transport of hazardous waste associated with the project would be required to be in compliance with RCRA and also with Washington's Dangerous Waste Regulations and Hazardous Waste Management Act. Contaminated materials generated during construction, including soil, water, and debris, would need to be properly designated before disposal. In addition, wastes generated by the contractor during construction also would need to be properly designated.

Solid Waste Regulations

WAC 173-304 implements the Solid Waste Management Act (RCW 70.95) and establishes the Minimum Functional Standards for Solid Waste Management. Solid waste facilities, including landfills, transfer stations, wood waste sites, and concrete recycling facilities, are permitted and monitored to ensure proper handling of wastes to prevent environmental contamination.

WAC 173-350 sets requirements for new solid waste handling facilities and imposes minimum functional performance standards for the proper handling and disposal of solid waste originating from residences, commercial, agricultural, and industrial operations and other sources.

Washington State Environmental Policy Act (SEPA)

WAC 197-11 and WAC 468-12 implement SEPA, which provides a way to identify environmental impacts that may result from proposed actions. Information provided during the SEPA review process helps agency decision-makers, applicants, and the public understand how a proposal would affect the environment. Assessment of impacts associated with hazardous materials and waste and demonstration that the proposed action has avoided or minimized those potential impacts are components of the SEPA review process.

Sediment Management Standards (SMS)

WAC 173-204 implements marine sediment quality and cleanup standards similar to MTCA. This regulation imposes a number of unique requirements that could impact this project. Source control standards apply for actions that resuspend surface sediments or cause surface sediment to exceed applicable standards.

Water Pollution Control Act

RCW 90.48 implements two administrative regulations that control pollution in state waters. Water Quality Standards for Surface Waters of the State of Washington, WAC 173-201A, establishes standards for toxic substances, conventional parameters (e.g., pH, dissolved oxygen, temperature), and aesthetic values for marine and fresh surface waters. Water Quality Standards for Ground Water of the State of Washington contain similar regulations for groundwater, with special emphasis on radionuclides and carcinogens, due to potability issues. Any construction or operational activities associated with the project must comply with Washington's water quality standards. Wastewater Discharges to Surface Waters, WAC 173-220 regulates discharges to surface water from construction projects. Under this program, it is unlawful to discharge polluting matter to surface waters without an NPDES Permit. A general NPDES for construction would be required for the

project. Wastewater Discharges to the Ground, WAC 173-216, regulates discharge of stormwater to detention basins if this water contains unacceptable concentrations of polluting matter. The proposed project would likely be exempt from the requirements of this regulation if an NPDES Stormwater Permit for construction is acquired. This would be verified during the permitting process conducted for this project.

Washington Industrial Safety and Health Act (WISHA)

RCW 49-17 implements the Occupational Health Standards WAC 296-62. RCW 49-17 also implements Safety Standards for Construction Work WAC 296-155, which contains the Safety Standards for Asbestos and Encapsulation WAC 296-65. These standards include rules covering operations at known hazardous waste sites and initial investigations of sites identified by the government, which are conducted before the presence or absence of hazardous substances has been ascertained. Also included are rules on site assessment and control, training, protective equipment, and emergency response. All construction activities associated with the project must comply with WISHA. WISHA includes specific procedures for work with lead-based paint and asbestos-containing materials.

The permit process involves consideration of potential contamination and could significantly impact costs and schedules. The proposed project would require a NPDES permit, which would require contamination issues to be addressed.

Unified Fire Code

WAC 51-34-7902.1.7.2.3 regulates the locations of USTs that could be used to contain combustible liquids. It is unlikely that all of the active heating oil tanks along the alignment have been upgraded to meet the 1998 standards because the requirement to upgrade has not been imposed on smaller heating oil tanks.

WSDOT Environmental Procedures Manual

The WSDOT Environmental Procedures Manual establishes policies and procedures for dealing with hazardous or problem materials encountered or potentially encountered in property WSDOT owns, manages, plans to sell, or plans to purchase.

Construction Planning

Several mitigation measures would be required as part of construction planning. These include development of spill prevention, control, and countermeasure (SPCC) plans; erosion and sedimentation control plans; and plans for handling and disposal of known and unanticipated contamination. These plans would present procedures that would be employed for the proposed project, including best management practices (BMPs) such as installing storm drain inlet protection, covering stockpiled soils, and containerizing and characterizing groundwater prior to discharge and/or disposal. Development and implementation of these plans would be conditions of permits required for the project.

In accordance with the City of Seattle Drainage Code, any construction contract for the proposed project would require the contractor to provide plans and procedures for dealing with pollutants other than sediment. The BMPs recommended in this document are simple and cost-effective methods of preventing contamination of the environment from construction activities.

Although most contaminated sites potentially affecting the project have been identified, the possibility of encountering unknown contamination cannot be discounted. A special conditions section would be incorporated to the Project Manual that identifies potential contamination issues. Also, SDOT standard specifications provide guidelines for addressing discoveries of unanticipated contamination. It is necessary to ensure that there are individuals on site who are trained in recognizing potential contamination and reporting procedures. Failure to recognize such hazards can lead to spills or injury, with the associated response and health implications. Contractors who are likely to encounter unknown contamination would be required to demonstrate their ability to identify these situations and respond quickly.

As discussed in the Environmental Consequences section, there is a possibility that workers could encounter contaminants during construction activities. Workers would be apprised of the possibility of these encounters and the potentially contaminated areas. A site Health & Safety Plan that describes monitoring requirements and the use of personal protective equipment, would be necessary.

If soils encountered during project construction are anticipated to be a dangerous waste, an ID number along with planning for soil handling and disposal can be completed prior to construction. This would reduce soil handling time because it would allow for soils to be loaded onto trucks during initial excavation and hauled to treatment or disposal facilities.

An ACBM and LBP survey would need to be conducted by AHERA-certified inspectors prior to demolition of any structures associated with project construction. Abatement work would need to be conducted prior to demolition and in accordance with applicable asbestos regulations.

Operational Measures

Because operational impacts related to hazardous materials and water are primarily associated with stormwater quality, these issues are addressed in the Water Quality Discipline Report rather than in this report.

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Appendix A

Appendix A
Potentially Contaminated Properties Identified During Historic Records Review

Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
1	5037300075	2700 W. Galer	R			X		A - Built 1955, oil heat	Yes
2	5037300200	1502 Thorndyke Ave. W.	R			X		A - 1940 - Present: Residence, oil heat	Yes
3	5037300220	2608 W. Galer	R			X		A - Built 1940, oil heat	Yes
4	5037300215	2600 W. Galer	R			X		A - Built 1940, oil heat	Yes
5	5037300305	1500 Magnolia Way	R			X		A - 1953 - Present: Residence, oil heat	Yes
6	2325039100	1524 Magnolia Way W	R			X		A, P: 1927-present - Residence	Yes
7	2325039105	None	R, V			X		A: 1951-after 1972: Residence; Current - Vacant land	No
8	2325039028	1556 Magnolia Way W	R			X		A, P: 1934-present - Residence	Yes
9	5553300415, 2771605385, 5553300580, 5037300315	2001 W. Garfield St.	V					A - Part of Smith Cove Naval Depot	Yes
9	2325039012, 2325039013, 2325039015	2001 W. Garfield St.	I					A - Port of Seattle Buildings 49, 50, and 54 built in 1942	Yes
9	2771605385	2001 W. Garfield St.	I					A - Used for vehicle service / maintenance	Yes
9	7666201146	2001 W. Garfield St.	I					A -Fuel pump station, storage yard, auto processing facilities, warehouses, car wash	Yes
9	7666201530	2001 W. Garfield St.	I					A - Tank Farm, Auto processing buildings/facilities; truck	Yes

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								scales; storage yard; BNSF railroad tracks	
9	7666201525, 2325039113, 2325039046, 2325039018, 2325039017, 2325039016	2001 W. Garfield St.	I					BNSF Railroad tracks	Yes
9	5553300695, 2325039074, 2325039106, 2325039015, 2325039107	2001 W. Garfield St.	V					A - US Navy DOD occupied (Northwest Harvest Building)	Yes
9	2771604890	2001 W Garfield St	C			X		A: 1938-after 1972 - Residence; Current - Marine/Commercial Fishing Terminal	Yes
11	2771600160	2510 Armory Way	I					A - BNSF railroad	Yes
11	7666201440, 2325039045, 2325039017, 2325069019, 2325039016, 2325039018, 2325039046, 7666201525	None	I					A - BNSF Railroad	Yes
11	2771102720	2000 W. Dravus St.	C					A: BNSF (Formerly Great Northern Rwy Co.)	Yes
11	7666201520	1600 W. Armory Way	C					A: BNSF railroad	Yes

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11	2771605175	3001 W. Barrett St.	V					A: BNSF (Formerly Great Northern Rwy Co.)	Yes
11	2771102945	2810 20th Ave. W.	C					A: BNSF Rwy Co.	Yes
11	2771102950	2610 20th Ave. W.	C, V					A: BNSF (Formerly Great Northern Rwy Co.)	Yes
11	2771605170	None	C, V					A: BNSF Rwy Co. (Railroad Operating Property [Vacant])	Yes
11	2771104455	None	C, V					A: BNSF Rwy Co. (Great Northern Ry Co)	Yes
11	2771104340	2601 20th Ave. W.	I				X	P: 1973-89/90 - BNSF Balmer Yard office, Terminal Mstr Office; 1973 - Western Fruit Express (Mech Dept.); EDR - BNSF Balmer Yard - CSCSL	Yes
11	7666201515, 7666201590, 7666201520	1600 W. Armory Way	C					A: BNSF Rwy Co.	Yes
13	7666201675	1523, 1601 W. Garfield St.	O	X			X	A - Built 1966, Interbay Pump Station; EDR - Interbay Pump Station - UST, LUST	Yes
14	7666201685	Elliott Ave. W. and W. Garfield St.	C					A: Richfield Oil Corp Warehouse, many 55-gallon drums in photograph	Yes
15	7666201690	1523 - 1545 15th Ave. W.	C/I				X	A: Former gas station and tank farm (4-20,000 gallon ASTs, 1-30,000 gallon AST, 1-550 gallon UST); EDR - Sammis Co/Elliott Industrial Park - WA ICR, CSCSL, VCP	Yes

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Potentially Contaminated Properties Identified During Historic Records Review**

Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
15	7666201690	1519 - 1521 15th Ave. W.	C			X		P - 1938 - 1956: Auto wreckers and used car sales, Sammis Co.	Yes
16	7666201695	1517 15th Ave. W.	C	X				P - 1938 - 1956: Gas station, also auto-wrecker, and used car sales lot; A - 1927-1962: Richfield service garage	Yes
17	7666201705, portion of 7666201700	1501 Elliott Ave. W.	C/I	X			X	A/P - 1938 - 1975: Gas station, Currently Budget Batteries, a service repair garage	Yes
17	Unknown	1509 15th Ave. W.	C	X				P - 1938 - 1965: Richfield Oil Corp. (oil and gasoline wholesalers) 1951 - 1965: Paint contractors	Yes
18	7666201745	1451 Elliott Ave. W.	C/I					P - 1938 - 1996: Pennzoil Co. wholesalers	Yes
19	7666201800	1450 Elliott Ave. W.	C	X				A - 1984 - Present: Auto and bus service center/garage	Yes
19	7666201800	1454 Elliott Ave. W.	C/I	X				P - 1938 - 1956: Richfield Oil, wholesalers	Yes
20	Unknown	1422 W. Galer	C		X			P - Smith Cove Cleaners: 1938 - 1944	Yes
21	7666201665	1504 15th Ave. W.	C			X		P - 1944 - 1960: Butterfield Machine Shop	Yes
21	7666201665	1502, 1506 15th Ave. W.	C	X				A/P - 1931 - 1957: Gas station	Yes
22	7666201640, portion of 7666201660	1401 - 1409 W. Garfield St.	C/I	X				A - Former service garage and Iron works, Currently Winkler NW, Inc. industrial light manufacturing	Yes

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Potentially Contaminated Properties Identified During Historic Records Review

Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
23	7666201650	1532 15TH Ave. W.	C		X			A - Former dry cleaners, currently lighthouse uniforms	Yes
24	7666201642	1534 - 1536 15th Ave. W.	C	X				A/P - 1938 - 1960: Gas station and used car lot, Currently vacant car lot office	Yes
26	3657700005	1634 15th Ave. W.	I				X	P - 1951 - 1960: Insect powder manufacturers, Currently EZ Mini Storage; EDR - EZ Mini Storage - UST	Yes
27	2425039047	1800 15th Ave. W.	C	X			X	A - 1998 - Present: Brown Bear Car Wash, former service station ; EDR - Brown Bear Car Wash - CSCSL, UST, LUST, WA ICR	Yes,
28	7666201630, 7666201625, 7666201626, 7666201627, 7666201620, 7666201617, 7666201610, 7666201605, 7666201601, 7666201600, 7666201595, 7666201560	1805 - 1837 15th Ave. W.	I/V/C	X			X	P - 1938 - 1960: Gas station; EDR - Tsubota steel - UST, LUST, and WA ICR	Yes
29	7666201616, 7666201617	1641-1801 15th Ave. W.	V	X			X	A/P - 1938 - 1941: Smith Cove Fuel Co. , auto repair; EDR - Joseph Smith Estate - CSCSL and LUST	Yes

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Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
30	7666201610	1631 - 1641 15th Ave. W.	C				X	A/P - 1917 - ??: Smith Cove Auto Wrecking and Olympic Iron and Steel, Currently Triad Interbay LLC; EDR - Triad Interbay LLC - CSCSL NFA and VCP	Yes
31	7666201605	1621 15th Ave. W.	C			X		P - 1951 - 1956: Used car lot	Yes
32	7666201600, 7666201601	1615-1617 15th Ave. W.	C					A - 1934 - 1960: Evergreen Trailways Garage	Yes
33	7666201595	1601 15th Ave. W.	C			X		P - 1980 - Present: Used car sales lot	Yes
34	2771600911, 7666201147	1600 W. Armory Way	I				X	A - Washington National Guard; EDR - Organizational Maintenance Shop - UST	Yes
35	2771108090	2501 15th Ave. W.	I/C	X			X	A - former service station (oil burning heat and four USTs) and Interbay landfill; EDR - CSCSL	Yes
12,10	7666201146	2001 W. Garfield St.	I	X			X	A -Fuel pump station, storage yard, auto processing facilities, warehouses, car wash; EDR - Port of Seattle Terminals 90 and 91 - UST, LUST, WA ICR, CSCSL, VCP	Yes
N/A	2771601150	2218 15th Ave. W.	R/C			X	X	A - 1905 - ??: Residence, oil heat, Currently GM Nameplate commercial office building, built 1915; EDR - GM Nameplate -	No, oil heat only, not adjacent to alignment

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								UST	
N/A	2771601235	1400 W. Boston St.	R			X		A - 1924 - Present: Single family residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771601255	2215 14th Ave. W.	R/C			X		A - Built 1890, stove heat, 1980 - present: 6-unit apartments	No, oil heat only, not adjacent to alignment
N/A	2771601265	2217 14th Ave. W.	R			X		A - 1908 - Present: single family residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771601285	2219, 2227-2229 14th Ave. W.	R/C			X		A - 1905 - 1967: Apartment building with 5 oil burning stoves, 1978 - present: 16-unit condominium	No, oil heat only, not adjacent to alignment
N/A	2771601295	2233 14th Ave. W.	R			X		A - 1941 - 1953: Residence, stove heat, 1941 - present: Duplex	No, oil heat only, not adjacent to alignment
N/A	2771601305	2243 14th Ave. W.	R/C			X		A - 1901 - Present: Fourplex, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771601325	2247 14th Ave. W.	R			X		A - 1903 - Present: Single-family residence, stove heat	No, oil heat only, not adjacent to alignment

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N/A	2771601330	2249 14th Ave. W.	R			X		A - 1903 Present: Single-family residence, stove heat	No, oil heat only, not adjacent to alignment
N/A	2771601335	2253 14th Ave. W.	R			X		A - 1904 - Present: Duplex, stove heat	No, oil heat only, not adjacent to alignment
N/A	2771601345	2257 14th Ave. W.	R			X		A - 1904 - Present: Duplex, stove heat	No, oil heat only, not adjacent to alignment
N/A	2771601180	2202 15th Ave. W.	R/C			X		A - 1903 - 1964: Residence, stove heat, Currently commercial parking lot	No, oil heat only, not adjacent to alignment
N/A	2771601170	2208 15th Ave. W.	R/C			X		A - 1903 - 1964: Residence, oil heat, Currently commercial parking lot	No, oil heat only, not adjacent to alignment
N/A	2771601160	2212 15th Ave. W.	R/C			X		A - 1905 - ???: Residence, oil heat, Currently GM Nameplate, vacant commercial property	No, oil heat only, not adjacent to alignment
N/A	2771601140	2220 15TH Ave. W.	R/C			X		A - 1903 - 1967?, Residence, oil heat, Currently Seattle Pump Co. storage warehouse and office	No, oil heat only, not adjacent to alignment
N/A	2771601110	2234 15th Ave. W.	R/C			X		A - 1910 - Present: Residence, stove heat, Currently vacant commercial land	No, oil heat only, not adjacent to alignment

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N/A	2771600995	2235 15th Ave. W.	R/C			X		A - 1910 - 1959: Residence, stove heat, currently vacant, commercial land	No, oil heat only, not adjacent to alignment
N/A	2771601005	2241 15th Ave. W.	R/C			X		P - 1926 - 1960: Duplex, stove heat, Currently commercial office building, built 1962	No, oil heat only, not adjacent to alignment
N/A	2771601090	2246 - 2246 1/2 15th Ave. W.	R			X		A - 2 Buildings: (1) 1903 - Present: residence, oil heat and asbestos roof, (2) 1909 - Present: residence; asbestos shake roof; stove heat	No, oil heat only, not adjacent to alignment
N/A	2771601015	2247 15th Ave. W.	R			X		A - 1927 - 1953: Residence, stove heat, Currently American Production Services, office building built 1968	No, oil heat only, not adjacent to alignment
N/A	2771601080	2252 15TH Ave. W.	R			X		A - early 1910 - Present: Duplex, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771601075	2254 15TH Ave. W.	R			X		A - 1897 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771601070	2258 15TH Ave. W.	R			X		A - 1902 - Present: Residence, stove heat	No, oil heat only, not adjacent to alignment

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N/A	856320000	1404 W. Boston St.	R/C			X		A - Former residence with oil heat, currently Tanager Condominiums, built 1978	No, oil heat only, not adjacent to alignment
N/A	2770602424	3039 20th Ave. W.	R			X		A: 1904-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602423	3037 20th Ave. W.	R			X		A: 1904-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602410	3023 20th Ave. W.	C			X		A: 1910-after 1972 - Residence; 1991-Present: Apartment	No, oil heat only, not adjacent to alignment
N/A	2771103000	2861-63 Thorndyke Ave. W.	C			X		A: 1901-1967 - Residence; 1967-Present - Apartments	No, oil heat only, not adjacent to alignment
N/A	2771103015	2841, 2857, 2857 1/2 Thorndyke Ave.	R			X		A: 1902-Present: Residence; 1931-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2771103030	2837, 2853 Thorndyke Ave.	R			X		A: 1901-Present: 2-Family Residence	No, oil heat only, not adjacent to alignment
N/A	2771103040	2835, 2849 Thorndyke Ave.	R			X		A: 1925-Present: Residence	No, oil heat only, not adjacent to alignment

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N/A	2771103070	2843 Thorndyke	R			X		A: 1926-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2771103080	2839 Thorndyke Ave. W.	C			X		A: 1914-1972 - Residence; 1972-Present: Apartments	No, oil heat only, not adjacent to alignment
N/A	2771103090	2833 Thorndyke Ave.	C			X		A: 1909-1960 - Residence; 1960-Present: Apartments	No, oil heat only, not adjacent to alignment
N/A	2771104120	2653 W. Thorndyke	R			X		A: 1915-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2771104130	(2651 W. Thorndyke), 2644 22nd Ave. W.	C			X		A: 1904-1972 - Residence; 1984-Present: Apartment	No, oil heat only, not adjacent to alignment
N/A	2771104190	2628 22nd W.	R			X		A: 1947-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2771104205	2621 Thorndyke	R			X		A: 1947-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770600895	2601 22nd Ave. W.	c			X		A: 1950-Present: Triplex	No, oil heat only, not adjacent to alignment

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N/A	2770600900	2605 22nd Ave. W.	c			X		A: 1950-Present: Triplex	No, oil heat only, not adjacent to alignment
N/A	2770600905	2611-13 22nd Ave. W.	C			X		A: 1908-1964 - Residence; 1964-Present: Fourplex	No, oil heat only, not adjacent to alignment
N/A	2771104290	2620-24 Thorndyke Ave. W.	C			X		A: 1947-1967 - Residence; 1967-Present: Apartment Building	No, oil heat only, not adjacent to alignment
N/A	2771104280	2618 Thorndyke	R			X		A: 1947-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602445	2001, 2003, 2005, 2005 1/2 W. Dravus St.	C			X		A: 1923-Present: Restaurant, Tavern and apartment	No, oil heat only, not adjacent to alignment
N/A	2771602600	2020 15th Ave. W.	C				X	P - 1956 - 1960: Boat builders, Currently GM Nameplate, Inc.; EDR - GM Nameplate Inc. - UST	No, too far from alignment
N/A	2771600925	2201 15th Ave. W.	C/I				X	formerly mattress factory, currently GM Nameplate, Inc.; EDR - GM Nameplate Inc. - UST	No, too far from alignment
N/A	2771602600	2046 15th Ave. W.	C	X				P - 1938 - 1956: Auto repair shop, Currently GM Nameplate, Inc.	No, too far from alignment
N/A	2771602645	2004 15th Ave. W.	C	X				P - 1938 - 1965: Gas station, currently U.S.	No, too far from alignment

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								Postal Service	
N/A	2771602645	2010 15th Ave. W.	C					P - 1951 - 1965: used car lot, currently U.S. Postal Service	No, too far from alignment
N/A	2771602645	2012 15th Ave. W.	C					P - 1944 - 1951: Painting contractors, currently U.S. Postal Service	No, too far from alignment
N/A	2771101800	3600-30 W. Gilman Ave., 3400 20th W., 1809 W. Emerson St.	C					Interbay BNSF: A - Historical: pumphouse (blt. 1971); machine shop (blt. 1949-1950); garage (blt. 1916); tank farm (blt. 1950, torn down); tool and locker shed (blt. 1941, torn down 1969). Current: 8 buildings are present including a roundhouse (built 1950), warehouse and office buildings (built 1950, 1989), a power plant for fuel pump (built 1950), a maintenance building (built 1979), a storage warehouse and load cell building (built 1990), a cold storage building (built 1980), and a wash rack storage building (built 1990)	No, too far from alignment
N/A	2771601100	2242 15th Ave. W.	C	X				P - 1996 - Present: NBC Auto retail store, residence (building built 1918)	No, too far from alignment

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N/A	2771601305	2237 14th Ave. W.	R/C					A - 1962 - Present: Fourplex	No, too far from alignment
N/A	2771601120	2232 15th Ave. W.	C					A - 1914 - Present: 2-story warehouse (Sports Exchange)	No, too far from alignment
N/A	2771601085	2250 15th Ave. W.	R					A - 1905 - present: Residence	No, too far from alignment
N/A	2771601375	1403 W. Wheeler St.	R					A - 1901 - Present: Single-family residence	No, too far from alignment
N/A	2771600980	2231, 2233 15th Ave. W.	I					A/P - 1944 - ??: Wax, soap and chemical manufacturing, Currently Queen Magnolia Interiors	No, too far from alignment
N/A	2771600945	2213 15th Ave. W.	C					A - 1955 - Present: Burbank textiles commercial warehouse	No, too far from alignment
N/A	2771602825	2189 15th Ave. W.	C/I					A - 1890 - 1959: Water, sewer, and pipe mfg. Factory and warehouse located here. Torn down in 1959. 1981-present: animal hospital	No, too far from alignment
N/A	2771601060	2264 15th Ave. W.	C					A - Office and shop with paint and buffing room	No, too far from alignment
N/A	2770602305	2015 Dravus	C		X			P: 1958-83 - Cleaners	No, too far from alignment
N/A	2770602525	3217 20th Ave. W.				X		P: 1958-83 - Petroleum inspectors; A: Office and lab, inspectors of petroleum	No, too far from alignment

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Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
N/A	2770602511	2006, 2008 Dravus; 3201, 3207, 3213 20th Ave. W.	C	X				P: 1938-89/90 - Gas station; 1938 - Shoe Repair; 1943-44 - general repair; A: 1928-present gas station, oil heat, at least one 16,000-gallon UST	No, too far from alignment
N/A	2771600275	2553 21st Ave. W.						P: 1983 - Charter Bus Co. A: Former residence, currently vacant land	No, too far from alignment
N/A	2771104305	2634, 2636 Thorndyke	C			X		P: 1958 - Paint contractor; 1958-83 - Building contractor, architect; 1968- Electronic compounds; 1968 - Manufacturers; 1973 - Mechanical Contractors; 1983 - Terminal Shipping Corp.	No, too far from alignment
N/A	2770602440	3053 20th Ave. W.				X		P: 1953-73 - Smith Cove Oil Co.; 1968-96 - Chemi-Serv Inc. Sprayers; A: Residence and office, stove heat	No, too far from alignment
N/A	2770602430	3045 20th Ave. W.						P: 1953-68 - Contractor; A: garage - torn down 1948; cabinet shop built 1947, torn down after 1972; Apartment built 1988	No, too far from alignment

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N/A	2771104020	2821, 2823 Thorndyke	C		X			P: 1958-68 - Laundromat; 1963 - Northwest Water Heater Co.; 1958 - Paint Mart; 1983 - Bridge Club; 1983 - Crown Hill Martinizing (Annex); 1989/90-96 - Crown Cleaners; A: Built 1911 and 1953-54, Cleaners and Apartments	No, too far from alignment
N/A	2771102960	2824 Thorndyke	C					P: 1983 - West Central Fabricators and Erectors Ltd.; 1989/90-96 - Pac Rim Consultants	No, too far from alignment
N/A	2771102972	2816, 2822 Thorndyke; 2821 20th Ave. W.	C					P: 1973 - Keen Engineers; 1973-78 - Northwest Engineered Products; 1978 - equipment manufacturers; 1983 - Northwest Video Center television prod; 1989-90 - Tultex manufacturers	No, too far from alignment
N/A	2771102980	2800 Thorndyke	C				X	P: 1958 - Air Equipment Rental; 1968-73 - Sand Blasters, mining engineering; 1968-96 - Northwest Water Heater Co.; 1989-90 - Northwest Rooter and Plumbing; A: Present: Northwest Water Heater Co.; EDR - UST	No, too far from alignment
N/A	2771104392	2600 21st Ave. W.						P: 1958 - Taxidermist; 1968 - Kiewit Peter Son's Co. (Stge)	No, too far from alignment

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N/A	2771603490	2312-2318 W. Boston St.	R/C			X		A - 1955 - Present: Apartments with 3 oil burning furnaces	No, oil heat only, not adjacent to alignment
N/A	7666201815	1430 - 1436 Elliott Ave. W.						P - 1944 - 1980: Pacific Chemical Laboratories	No, too far away from alignment
N/A	5553300381	2709 W. Galer	R			X		A - Built 1953, oil heat	No, oil heat only, not adjacent to alignment
N/A	5553300389	2703 W. Galer	R			X		A - Built 1985, oil heat	No, oil heat only, not adjacent to alignment
N/A	5553300395	2625 W. Galer	R			X		A - Built 1953, oil heat	No, oil heat only, not adjacent to alignment
N/A	5553300405	2619 W. Galer	R			X		A - Built 1953, oil heat	No, oil heat only, not adjacent to alignment
N/A	5553300195	2807 W. Galer	R			X		A - Built 1915, oil heat	No, oil heat only, not adjacent to alignment
N/A	5037300065	2720 W. Galer	R			X		A - Built 1909, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771108085	2531 Gilman Ave. W.	R			X		A - Built 1910, oil heat	No, oil heat only, not adjacent to alignment

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N/A	2771602856	2302 W. Lynn St.	R			X		A - 1953 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771603445	2315 W. Lynn St.	R			X		A - 1914 - ??: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	5553300640	2601 W. Marina Pl.	V					A/D - Emergency shoreline repair was conducted and suspect fill may have been used along the shore; Appears on the UST list	No, not adjacent to alignment, contaminated material reportedly replaced with clean material
N/A	5037300235	1511 Magnolia Way	R			X		A - 1941 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	5037300300	1512 Magnolia Way	R			X		A - 1952 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	5037300241	1517 Magnolia Way	R			X		A - 1947 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	5037300295	1518 Magnolia Way	R			X		A - 1951 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment

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N/A	2325039040	1528 Magnolia Way	R			X		A - 1939 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771600800	2315 W. Smith St.	R			X		A - Built 1958, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771600825	2325 W. Smith St.	R			X		A - Built 1910, oil heat	No, oil heat only, not adjacent to alignment
N/A	5037300190	1512 Thorndyke Ave. W.	R			X		A - 1926 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	5037300085	1515 Thorndyke Ave. W.	R			X		A - 1952 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	5037300185	1516 Thorndyke Ave. W.	R			X		A - 1951 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771603400	2212 - 2214 Thorndyke Ave. W.	R/C			X		A - 1926 to 1951: Store and apartment, oil heat, 1951 to present: duplex with 2 oil burning furnaces	No, oil heat only, not adjacent to alignment
N/A	2771602865	2306 Thorndyke Ave. W.	R			X		A - 1949 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment

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N/A	2771602875	2314 Thorndyke Ave. W.	R			X		A - Built 1950, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771602885	2322 Thorndyke Ave. W.	R			X		A - Built 1950, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771600675	2314 W. Wheeler	R			X		A - Built 1964, oil heat	No, oil heat only, not adjacent to alignment
N/A	2771600815	2319 W. Wheeler	R			X		A - Built 1952, oil heat	No, oil heat only, not adjacent to alignment
N/A	Unknown	2507 14th Ave. W.	O					P - 1944 - 1951: Seattle Fire Department	No, no history of industrial uses
N/A	7666201700	1515 15th Ave. W.	I					A - 1946 - 1993: Frozen food plant, 1993 - Present: Warehouse	No, no reported releases
N/A	2771108010	2512 15th Ave. W.	R			X		A - 1902 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	Unknown	2555 15th Ave. W.	C	X				P - 1960 - 1975: Gas station	No, not adjacent to alignment
N/A	2770604000	2600 15th Ave. W.	C	X				P - 1989 - Present: Auto repair shop	No, not adjacent to alignment

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N/A	2771605161	2310 20th Ave. W.	I					A - BNSF railroad	No, too far from alignment
N/A	2771600660	2440 24th Ave. W.	R	X		X		A - 1940 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	5037300060	1512 28th Ave. W.	R			X		A - 1938 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	2021201065	1515 28th Ave. W.	R			X		A - 1948 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	5037300055	1518 28th Ave. W.	C			X		P - 1938 - 1944: Twin Disc Clutch Co., also residence with oil heat	No, not adjacent to alignment
N/A	2021200685	1555 28th Ave. W.	R			X		A - 1948 - Present: Residence, oil heat	No, oil heat only, not adjacent to alignment
N/A	2770602505	2010 Dravus	C					P: 1958 - Mfg trailers	No, too far away from alignment
N/A	2770602551	3243 20th Ave. W.						P: 1968 - Olympic Plastics Co. Inc. Finishing and Repair; 1973-96 - Magnolia Collision Repair auto; 1996 - Photography	No, too far from alignment
N/A	2770602555	3247 20th Ave. W.						P: 1973-1996: Printing; 1978: Poly Bag Co.	No, too far from alignment
N/A	2770602075	2120 Barrett St.						P: 1983 - Film Consortium, Inc.; 1989-90 - Lynx Automation	No, too far from alignment

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N/A	2770602565	3259 20th Ave. W.						P: 1963 - Ford Van Lines, Inc. Movers; 1978-83 - American Scientific and Chemical; 1989/90-96 - Design label manufacturing	No, too far from alignment
N/A	2770602530	3219 20th Ave. W.	C			X		A: 1908-Present: Residence (may currently be vacant)	No, oil heat only, not adjacent to alignment
N/A	2771104055	2854 21st Ave. W.	R			X		A: 1937-Present: Residence, duplex	No, oil heat only, not adjacent to alignment
N/A	2771104080	2019 W. Barrett St.	R			X		A: 1911-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2771104090	2015 W. Barrett St.	R			X		A: 1915-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2771104000	2830 21st Ave. W.	R			X		A: 1911-Present: Residence, duplex	No, oil heat only, not adjacent to alignment
N/A	2771103051	2838-40 21st Ave. W.	R			X		A: 1954-Present: 2-Family Residence	No, oil heat only, not adjacent to alignment

Appendix A
Potentially Contaminated Properties Identified During Historic Records Review

Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
N/A	2771104035	2842 21st Ave. W.				X		P: 1996 - Comptrack Systems	No, oil heat only, not adjacent to alignment
N/A	2771104045	2840, 2846 21st Ave. N.	R			X		A: 1908-Present: Residence, duplex	No, oil heat only, not adjacent to alignment
N/A	2770602285	2859 21st Ave. W.	R			X		A: 1914-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602280	2853 21st Ave. W.	R			X		A: 1925-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602265	2849 21st Ave. W.	R			X		A: 1908-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602250	2837, 2843 21st Ave. W.	R			X		A: 1910-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602245	2833 21st Ave. W.	R			X		A: 1907-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602235	2823 21st Ave. W.	R			X		A: 1922-Present: Residence	No, oil heat only, not adjacent to alignment

**Appendix A
Potentially Contaminated Properties Identified During Historic Records Review**

Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
N/A	2770602230	2819 21st Ave. W., 2819 1/2 21st Ave. W.	R			X		A: 1901-Present: Residence; 1919-Present: Residence (duplex)	No, oil heat only, not adjacent to alignment
N/A	2770602225	2813 21st Ave. W.	R			X		A: 1942-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602220	2807 21st Ave. W.	R			X		A: 1949-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770602215	2801 21st Ave. W.	R			X		A: 1952-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2771104230	2658 22nd Ave. W.	R			X		A: 1906-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2771104240	2117 W. Armour	R			X		A: 1946-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770600836	2215-17-19 W. Armour St.	C			X		A: 1959-Present: Triplex	No, oil heat only, not adjacent to alignment
N/A	2770600837	2650 23rd W.	R			X		A: 1920-1966: Residence; 1966-Present: Triplex	No, oil heat only, not adjacent to alignment

Appendix A
Potentially Contaminated Properties Identified During Historic Records Review

Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
N/A	2770600840	2644-46 23rd Ave. W.	R			X		A: 1952-Present: Duplex	No, oil heat only, not adjacent to alignment
N/A	2770600850	2638 23rd W.	R			X		A: 1908-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770600860	2622 23rd W.	R			X		A: 1909-1972 - Residence; 1994-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770600870	2620 23rd W.	C			X		A: 1909-1972 - Residence; 1984-Present: Apartment	No, oil heat only, not adjacent to alignment
N/A	2770600885	2608 23rd W.	R			X		A: 1944-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770600890	2600-02 23rd Ave. W.	R			X		A: 1955-Present: Duplex	No, oil heat only, not adjacent to alignment
N/A	2770600920	2627 22nd W.	R			X		A: 1930-Present: Residence (Duplex)	No, oil heat only, not adjacent to alignment
N/A	2770600925	2633 22nd Ave. W.	R			X		A: 1909-1972 - Residence; 1989-Present: Apartments	No, oil heat only, not adjacent to alignment

Appendix A
Potentially Contaminated Properties Identified During Historic Records Review

Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
N/A	2770600930	2637 22nd W.	R			X		A: 1906-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770600935	2643 22nd Ave. W.	R			X		A: 1911-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770600940	2647 22nd Ave. W.	R			X		A: 1908-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770600945	2653 22nd W.	R			X		A: 1903-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2770600950	2655-57-59 22nd Ave. W.	C			X		A: 1901-1960 - Residence; 1959-Present: Triplex	No, oil heat only, not adjacent to alignment
N/A	2771600595	2219 W. Halladay St.	R			X		A: 1953-Present: Residence	No, oil heat only, not adjacent to alignment
N/A	2771604400	2313 W Newton St	R			X		A, P: 1952-1990- Duplex; renovated to triplex in 1990	No, oil heat only, not adjacent to alignment

Appendix A
Potentially Contaminated Properties Identified During Historic Records Review

Property ID No.	Tax Parcel No(s).	Site Address	Site Use	Gas / Service Station	Laundromat / Dry Cleaners	Heating Oil/Waste Oil	EDR	Comments	Validated?
N/A	3547900370	1820 Amherst PI W	R			X		A, P 1964-present - Residence	No, oil heat only, not adjacent to alignment
N/A	3547900380	1812 Amherst PI W	R			X		A, P: 1940-present - Residence	No, oil heat only, not adjacent to alignment

Notes:

A = Tax assessor records

EDR = Environmental Data Resources, Inc. Report

P = Polk Directories

Appendix B



The EDR Area Study Report

**Study Area
Magnolia Bridge Replacement
Seattle, WA 98199**

September 22, 2003

Inquiry number 1051480.1s

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

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR).

TARGET PROPERTY INFORMATION

ADDRESS

MAGNOLIA BRIDGE REPLACEMENT
SEATTLE, WA 98199

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information 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
ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
US BROWNFIELDS..... A Listing of Brownfields Sites
DOD..... Department of Defense Sites
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
SSTS..... Section 7 Tracking Systems

STATE OR LOCAL ASTM SUPPLEMENTAL

EMI..... Washington Emissions Data System

BROWNFIELDS DATABASES

US BROWNFIELDS..... A Listing of Brownfields Sites

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

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

CERCLIS-NFRAP: 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.

A review of the CERC-NFRAP list, as provided by EDR, and dated 06/11/2003 has revealed that there are 4 CERC-NFRAP sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
<i>UNITED SERVICES</i>	<i>3450 16TH AV W</i>	<i>2</i>	<i>7</i>
SEATTLE, CY OF, INTERBAY-OLD L	W WHEELER & 15 TH AV W	13	19
<i>BURLINGTON ENVIRONMENTAL INC P</i>	<i>2001 W GARFIELD ST E SI</i>	<i>20</i>	<i>50</i>
<i>RUDD PAINT & VARNISH CO</i>	<i>1608-1630 15TH AVE W</i>	<i>20</i>	<i>59</i>

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 08/13/2003 has revealed that there is 1 CORRACTS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
<i>BURLINGTON ENVIRONMENTAL INC P</i>	<i>2001 W GARFIELD ST E SI</i>	<i>20</i>	<i>50</i>

RCRIS: 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). Conditionally exempt small quantity generators (CESQGs): generate

EXECUTIVE SUMMARY

less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-TSD list, as provided by EDR, and dated 07/11/2003 has revealed that there is 1 RCRIS-TSD site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
BURLINGTON ENVIRONMENTAL INC P	2001 W GARFIELD ST E SI	20	50

RCRIS: 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). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-LQG list, as provided by EDR, and dated 07/11/2003 has revealed that there are 3 RCRIS-LQG sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FOSS MARITIME CO	660 W EWING ST	1	3
GM NAMEPLATE INC	2040 15TH AVE W	17	26
IMMUNEX CORP W GALER ST	1600 W GALER ST	25	88

RCRIS: 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). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-SQG list, as provided by EDR, and dated 07/11/2003 has revealed that there are 37 RCRIS-SQG sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FOUR SEASONS CLEANERS 15TH AVE	2800 15TH AVE W	4	10
SEATTLE CITY ENG DEPT W ARMOUR	15TH AVE W & W ARMOUR S	5	10

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
U HAUL CO SEATTLE	2601 15TH AVE W	7	13
ACCUCRAFT COLLISION CENTER INC	2600 15TH AVE W	7	13
AARON FINE DRY CLEANING QUEEN	2402 QUEEN ANNE AVE N	14	21
WA ARMY NATIONAL GUARD OMS 6	1601 W ARMORY WAY	16	23
ALEXANDERS U RENT INC	1523 15TH AVE W	20	34
USN LEASING PIER 90 BERTH 5	W OFF ELLIOT AVE W & W	20	35
SEATTLE PORT TERMINAL 91	2001 W GARFIELD ST	20	38
BURLINGTON ENVIRONMENTAL INC P	2001 W GARFIELD ST E SI	20	50
UNITED DRAIN OIL PIER 91	2001 GARFIELD ST W SIDE	20	57
RUDD PAINT & VARNISH CO	1608-1630 15TH AVE W	20	59
TRIAD INTERBAY LLC	1631 15TH AVE W	20	64
CIRCLE K STORE 5516 BP OIL	1800 15TH AVE W	20	71
TSUBOTA INDUSTRIAL SUPPLY CO I	1837 15TH AVE W	20	74
DISTRIBUTION & AUTO SERVICE IN	2001 W GARFIELD BLDG 15	21	75
BOEING AEROSPACE CO PIER 90	2001 W GARFIELD PIER 90	21	75
PACIFIC TERMINAL SERVICES INC	2001 W GARFIELD ST BLDG	21	75
LYDIG CONSTRUCTION INC	2001 W GARFIELD BLDG C	21	76
KIA MOTORS AMERICA DIST AUTO	2001 W GARFIELD ST BLDG	21	76
NORTHERN VENTURES INC	1408 ELLIOTT AVE W	25	87
BURLINGTON NORTHERN RR TERMIN	1600 W GALER TERM 88 DO	25	91
UNIPAK CORP	1600 W GALER ST DOOR 51	25	92
ADAMS NEWS CO INC	1555 W GALER ST	25	93
SEATTLE FILMWORKS MANUFACTURIN	1260 16TH AVE W	27	94
GLACIER PARK CO PIER 88	1461 THRU 77 ALASKAN WA	27	95
ELLIOTT DRUM	1038 ELLIOTT AVE W	29	96
ACE TANK & EQUIPMENT 1143 ELLI	1143 ELLIOTT AVE W	29	98
KINNEAR APARTMENTS	905 OLYMPIC WAY W	30	99
NF CORP 16TH AVE W	1230 16TH AVE W PIER 89	32	101
SEATTLE PORT TERMINAL 88	955 ALASKAN WAY W PIER	33	101
LOUIS DREYFUSS CORP	955 ALASKAN WAY W PIER	33	101
PHILLIPS MORRIS SCALE CO	934 ELLIOTT AVE W	33	102
LEATHER CARE INC	901 ELLIOTT AVE W	33	102
QUEEN CITY INDUSTRIES	945 ELLIOT AVE W	33	103
FORMER TEXACO SERVICE STATION	631 QUEEN ANNE AVE N	35	104
MONTEREY APARTMENTS SITE	622 1ST AVE W & QUEEN A	35	106

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2002 has revealed that there are 40 ERNS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
COASTAL TRANSPORTION 2502 13TH	COASTAL TRANSPORTION 25	12	19
1515 15TH AVE WEST	1515 15TH AVE WEST	20	33
2601 WEST MARINA PL	2601 WEST MARINA PL	22	77
2601 WEST MARINA PL	2601 WEST MARINA PL	22	77
2601 WEST MARINA PL	2601 WEST MARINA PL	22	77
2601 WEST MARINA PL	2601 WEST MARINA PL	22	77
2601 WEST MARINA PL	2601 WEST MARINA PL	22	77
2601 WEST MARINA PL	2601 WEST MARINA PL	22	77
2601 WEST MARINA PL	2601 WEST MARINA PL	22	77
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	80
2601 WEST MARINA PL	2601 WEST MARINA PL	22	80

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
2601 WEST MARINA PL	2601 WEST MARINA PL	22	80
2601 WEST MARINA PL	2601 WEST MARINA PL	22	80
2601 WEST MARINA PL	2601 WEST MARINA PL	22	80
2601 WEST MARINA PL	2601 WEST MARINA PL	22	84
2601 WEST MARINA PL	2601 WEST MARINA PL	22	84
2601 WEST MARINA PL	2601 WEST MARINA PL	22	84
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	84
2601 WEST MARINA PL	2601 WEST MARINA PL	22	84
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	85
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	85
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	85
2601 WEST MARINA PL	2601 WEST MARINA PL	22	85
2601 WEST MARINA PL	2601 WEST MARINA PL	22	85
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	85
2601 WEST MARINA PL	2601 WEST MARINA PL	22	85
2601 WEST MARINA PL	2601 WEST MARINA PL	22	85
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	85
2601 WEST MARINA PL	2601 WEST MARINA PL	22	85
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	85
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	85
2601 WEST MARINA PL	2601 WEST MARINA PL	22	85
2601 WEST MARINA PL	2601 WEST MARINA PL	22	86
2601 WEST MARINA PL	2601 WEST MARINA PL	22	86
2601 WEST MARINA PL.	2601 WEST MARINA PL.	22	86
2601 WEST MARINA PL	2601 WEST MARINA PL	22	86
2601 WEST MARINA PL	2601 WEST MARINA PL	22	86
2601 WEST MARINA PL	2601 WEST MARINA PL	22	86
2601 WEST MARINA PL	2601 WEST MARINA PL	22	86
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	86
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	86
2601 WEST MARINA PLACE	2601 WEST MARINA PLACE	22	86
2001 W. GARFIELD STREET PIER 9	2001 W. GARFIELD STREET	23	86

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 17 CSCSL sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FOSS MARITIME CO	660 W EWING ST	1	3
UNITED SERVICES	3450 16TH AV W	2	7
BURFIT PROPERTY CITY TOW	1500 W BERTONA	3	9
Not reported	2601 20TH AVE W	9	16
INTERBAY OLD LANDFILL	W WHEELER ST / 15TH A	13	19
AARON FINE DRY CLEANING QUEEN	2402 QUEEN ANNE AVE N	14	21
SAMIS COMPANY PROPERTY	1523 1535 1541 15TH AVE	20	36
SEATTLE PORT TERMINAL 91 TANK	2001 W GARFIELD ST	20	39

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PORT OF SEATTLE TERM 90 PIPELI	2001 W GARFIELD ST	20	41
TERMINAL 91	2001 W GARFIELD	20	42
RUDD PAINT & VARNISH CO	1608-1630 15TH AVE W	20	59
JOSEPH SMITH ESTATE	1641-1801 15TH AVE W	20	69
UNOCAL SS NO 0255 FORMER	700 QUEEN ANNE AVE N	34	103
FORMER TEXACO SERVICE STATION	631 QUEEN ANNE AVE N	35	104
MONTEREY APARTMENTS SITE	622 1ST AVE W & QUEEN A	35	106
Not reported	401 ELLIOTT AVE W	38	114
COLEMAN CREOSOTING WORKS	333 ELLIOTT AVE W	39	116

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 07/07/2003 has revealed that there are 17 LUST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FOSS MARITIME CO	660 W EWING ST	1	3
UHAUL CO OF 15TH AVENUE	2601 15TH AVE W	7	11
THE MOUNT PLEASANT CEMETERY CO	700 W RAYE	8	15
MEHRER DRYWALL INC	2657 20TH AVE W	9	18
NW CENTER INDUSTRIES	1600 W ARMORY WY	16	25
PLYMOUTH SQUARE APARTMENTS (EX	2320 W PLYMOUTH	18	33
TERMINAL 91	2001 W GARFIELD	20	42
INTERBAY PUMP STATION	1601 W GARFIELD	20	58
RUDD COMPANY, INC.	1630 15TH AVE W	20	64
CIRCLE K STORE 5516 BP OIL	1800 15TH AVE W	20	71
TSUBOTA STEEL AND PIPE	1805-1827 FIFTEENTH AVE	20	73
THE HOME OIL CO. CORPORATION	1110 ELLIOTT AVE W	29	97
PIER 88	GALER ST & N ALASKAN WA	31	99
SHELL OIL PRODUCTS	630 ELLIOTT AVE W	36	109
DARIGOLD INC	635 ELLIOTT AVE W	36	110
TOOL TOWN	652 ELLIOTT AVE W	36	112
ODEN INVESTMENT CONDOS	619 5TH AVE W	37	114

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 07/11/2003 has revealed that there are 34 UST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FOSS MARITIME CO	660 W EWING ST	1	3
NORTHWEST ROOTER & PLBG SERVIC	2800 W THORNDYKE	6	11
UHAUL CO OF 15TH AVENUE	2601 15TH AVE W	7	11
THE MOUNT PLEASANT CEMETERY CO	700 W RAYE	8	15
MEHRER DRYWALL INC	2657 20TH AVE W	9	18
RESIDENCE 29TH AVE W (EXEMPT)	2560 29TH AVE W	10	18
ORGANIZATIONAL MAINTENANCE SHO	1601 ARMORY WAY	16	24

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
NW CENTER INDUSTRIES	1600 W ARMORY WY	16	25
PLYMOUTH SQUARE APARTMENTS (EX	2320 W PLYMOUTH	18	33
HOWE STREET SOC 070757	1403 W HOWE STREET	19	33
LIGHTHOUSE UNIFORM CO	1532 15TH AVE W	20	35
TERMINAL 91	2001 W GARFIELD	20	42
INTERBAY PUMP STATION	1601 W GARFIELD	20	58
RUDD COMPANY, INC.	1630 15TH AVE W	20	64
EZ MINI STORAGE	1634 15TH AVE W	20	69
CIRCLE K STORE 5516 BP OIL	1800 15TH AVE W	20	71
TSUBOTA STEEL AND PIPE	1805-1827 FIFTEENTH AVE	20	73
ELLIOTT BAY MARINA, INC.	2601 W MARINA PL	22	81
HILTON SEAFOODS	1437 ELLIOTT AVE. W.	25	87
PENNZOIL PRODUCTS CO.	1451 ELLIOTT AVE W	25	88
BUDGET BATTERIES INC	1501 ELLIOT W	25	90
TRAILWAYS	1452 ELLIOTT AVE. W.	25	90
ADAMS NEWS CO., INC.	1555 W GALOR ST	25	92
PANOCO	PIER 91	26	94
GILBERT SCHERER	1260 16TH AVE W	27	95
PACIFIC COAST HEMPHILL OIL	1039 ELLIOTT AVE W	29	96
WILSON MACHINE WORKS INC	1038 ELLIOTT AVE W	29	96
THE HOME OIL CO. CORPORATION	1110 ELLIOTT AVE W	29	97
ACE TANK & EQUIPMENT CO.	1143 ELLIOTT AVE W. BOX	29	97
PIER 88	GALER ST & N ALASKAN WA	31	99
UEKI CORP	614 ELLIOTT AVE W	36	108
SHELL OIL PRODUCTS	630 ELLIOTT AVE W	36	109
DARIGOLD INC	635 ELLIOTT AVE W	36	110
TOOL TOWN	652 ELLIOTT AVE W	36	112

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 08/19/2003 has revealed that there are 9 VCP sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
UNITED SERVICES	3450 16TH AV W	2	7
SAMIS COMPANY PROPERTY	1523 1535 1541 15TH AVE	20	36
SEATTLE PORT TERMINAL 91	2001 W GARFIELD ST	20	38
PORT OF SEATTLE TERM 90 PIPELI	2001 W GARFIELD ST	20	41
RUDD PAINT & VARNISH CO	1608-1630 15TH AVE W	20	59
TRIAD INTERBAY LLC	1631 15TH AVE W	20	64
ADAMS NEWS CO INC	1555 W GALER ST	25	93
UEKI CORP	600-614 ELLIOTT AVE W	36	108
<i>Not reported</i>	401 ELLIOTT AVE W	38	114

FEDERAL ASTM SUPPLEMENTAL

EXECUTIVE SUMMARY

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 07/25/2003 has revealed that there are 41 FINDS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FOSS MARITIME CO	660 W EWING ST	1	3
FOUR SEASONS CLEANERS 15TH AVE	2800 15TH AVE W	4	10
SEATTLE CITY ENG DEPT W ARMOUR	15TH AVE W & W ARMOUR S	5	10
U HAUL CO SEATTLE	2601 15TH AVE W	7	13
ACCUCRAFT COLLISION CENTER INC	2600 15TH AVE W	7	13
AARON FINE DRY CLEANING QUEEN	2402 QUEEN ANNE AVE N	14	21
ULTRA COATINGS INC	2218 15TH AVE W	15	23
WA ARMY NATIONAL GUARD OMS 6	1601 W ARMORY WAY	16	23
GM NAMEPLATE INC	2040 15TH AVE W	17	26
ALEXANDERS U RENT INC	1523 15TH AVE W	20	34
USN LEASING PIER 90 BERTH 5	W OFF ELLIOT AVE W & W	20	35
SEATTLE PORT TERMINAL 91	2001 W GARFIELD ST	20	38
BURLINGTON ENVIRONMENTAL INC P	2001 W GARFIELD ST E SI	20	50
UNITED DRAIN OIL PIER 91	2001 GARFIELD ST W SIDE	20	57
RUDD PAINT & VARNISH CO	1608-1630 15TH AVE W	20	59
TRIAD INTERBAY LLC	1631 15TH AVE W	20	64
CIRCLE K STORE 5516 BP OIL	1800 15TH AVE W	20	71
TSUBOTA INDUSTRIAL SUPPLY CO I	1837 15TH AVE W	20	74
DISTRIBUTION & AUTO SERVICE IN	2001 W GARFIELD BLDG 15	21	75
BOEING AEROSPACE CO PIER 90	2001 W GARFIELD PIER 90	21	75
PACIFIC TERMINAL SERVICES INC	2001 W GARFIELD ST BLDG	21	75
LYDIG CONSTRUCTION INC	2001 W GARFIELD BLDG C	21	76
KIA MOTORS AMERICA DIST AUTO	2001 W GARFIELD ST BLDG	21	76
NORTHERN VENTURES INC	1408 ELLIOTT AVE W	25	87
IMMUNEX CORP W GALER ST	1600 W GALER ST	25	88
BURLINGTON NORTHERN RR TERMIN	1600 W GALER TERM 88 DO	25	91
UNIPAK CORP	1600 W GALER ST DOOR 51	25	92
ADAMS NEWS CO INC	1555 W GALER ST	25	93
SEATTLE FILMWORKS MANUFACTURIN	1260 16TH AVE W	27	94
GLACIER PARK CO PIER 88	1461 THRU 77 ALASKAN WA	27	95
ELLIOTT DRUM	1038 ELLIOTT AVE W	29	96
ACE TANK & EQUIPMENT 1143 ELLI	1143 ELLIOTT AVE W	29	98
KINNEAR APARTMENTS	905 OLYMPIC WAY W	30	99
NF CORP 16TH AVE W	1230 16TH AVE W PIER 89	32	101
SEATTLE PORT TERMINAL 88	955 ALASKAN WAY W PIER	33	101
LOUIS DREYFUSS CORP	955 ALASKAN WAY W PIER	33	101
PHILLIPS MORRIS SCALE CO	934 ELLIOTT AVE W	33	102
LEATHER CARE INC	901 ELLIOTT AVE W	33	102
QUEEN CITY INDUSTRIES	945 ELLIOT AVE W	33	103
FORMER TEXACO SERVICE STATION	631 QUEEN ANNE AVE N	35	104
MONTEREY APARTMENTS SITE	622 1ST AVE W & QUEEN A	35	106

EXECUTIVE SUMMARY

HMIRS: The Hazardous Materials Incident Report System contains hazardous material spill incidents reported to the Department of Transportation. The source of this database is the U.S. EPA.

A review of the HMIRS list, as provided by EDR, and dated 03/31/2003 has revealed that there is 1 HMIRS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
Not reported	2601 20TH AVENUE WEST	9	15

PADS: The PCB Activity Database identifies generators, transporters, commercial storers and/or brokers and disposers of PCBs who are required to notify the United States Environmental Protection Agency of such activities. The source of this database is the U.S. EPA.

A review of the PADS list, as provided by EDR, and dated 06/30/2003 has revealed that there is 1 PADS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FOSS MARITIME CO	660 W EWING ST	1	3

RAATS: The RCRA Administration Action Tracking System contains records based on enforcement actions issued under RCRA and pertaining to major violators. It includes administrative and civil actions brought by the United States Environmental Protection Agency. The source of this database is the U.S. EPA.

A review of the RAATS list, as provided by EDR, and dated 04/17/1995 has revealed that there is 1 RAATS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
BURLINGTON ENVIRONMENTAL INC P	2001 W GARFIELD ST E SI	20	50

FTTS: 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) over the previous five years. To maintain currency, EDR contacts the Agency on a quarterly basis.

A review of the FTTS list, as provided by EDR, and dated 04/15/2003 has revealed that there is 1 FTTS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
ULTRA COATINGS INC	2218 15TH AVE W	15	23

STATE OR LOCAL ASTM SUPPLEMENTAL

EXECUTIVE SUMMARY

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

A review of the CSCSL NFA list, as provided by EDR, and dated 07/25/2003 has revealed that there are 6 CSCSL NFA sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FUDS NW CENTER	1600 W ARMORY WAY	16	25
TRIAD INTERBAY LLC	1631 15TH AVE W	20	64
ADAMS NEWS CO., INC.	1555 W GALOR ST	25	92
SEATTLE LIGHTING STA	1177 ELLIOTT AVE W	29	99
BLACKSTOCK LUMBER	601 ELLIOTT AVE W	36	108
UEKI CORP	600-614 ELLIOTT AVE W	36	108

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 20 WA ICR sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FOSS MARITIME CO	660 W EWING ST	1	3
U HAUL CO SEATTLE	2601 15TH AVE W	7	13
BUTTERWORTH FUNERAL HOME	700 W. RAYE	8	14
MEHRER DRYWALL INC	2657 20TH AVE W	9	18
RESIDENCE 29TH AVE W (EXEMPT)	2560 29TH AVE W	10	18
AARON FINE DRY CLEANING QUEEN	2402 QUEEN ANNE AVE N	14	21
NORTHWEST CENTER INDUSTRIES	1600 NW ARMORY WAY	16	24
ELLIOTT INDUSTRIAL PARK	1523-1541 15TH AVE. W.	20	34
SAMMIS COMPANY (FOUR REPORTS)	1523-1545 15TH AVE. W.	20	35
SEATTLE PORT TERMINAL 91	2001 W GARFIELD ST	20	38
TERMINAL 91	2001 W GARFIELD	20	42
RUDD PAINT & VARNISH CO	1608-1630 15TH AVE W	20	59
CAR WASH ENTERPRISES (TWO REPO	1800 15TH AVE. W.	20	70
TSUBOTA STEEL AND PIPE	1805-1827 FIFTEENTH AVE	20	73
ADAMS NEWS COMPANY	1555 W. GALER ST.	25	93
UEKI CORP	614 ELLIOTT AVE W	36	108
TEXACO #63076 0400	630 ELLIOTT AVE. W.	36	110
DARIGOLD INC	635 ELLIOTT AVE W	36	110
TOOL TOWN	652 ELLIOTT AVE W	36	112
CITY OF SEATTLE - METRO BUS BA	W. MERCER ST. / 5TH A	37	113

SPILLS: 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.

A review of the SPILLS list, as provided by EDR, and dated 07/14/2003 has revealed that there are 30

EXECUTIVE SUMMARY

SPILLS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FOSS MARITIME CO	660 W EWING ST	1	3
Not reported	2601 20TH AVE W	9	16
Not reported	2515 THORNDYKE AVE	11	19
Not reported	1601 W ARMORY WY	16	24
Not reported	15 AVE W / W ARMORY W	17	26
Not reported	1523 15TH AVE W	20	34
Not reported	2001 W GARFIELD ST	20	42
Not reported	2601 W MARINA PL, ELLIO	22	77
Not reported	2601 WEST MARINA PLACE,	22	77
Not reported	2601 W MARINA PL	22	78
Not reported	2601 W MARINA PL	22	78
Not reported	2601 WEST MARINA PLACE	22	78
Not reported	2601 W. MARINA PL, SEAT	22	78
Not reported	2601 W MARINA PL, SLIP	22	79
Not reported	2601 W MARINA PLACE, BE	22	79
Not reported	2601 WEST MARINA PLACE,	22	79
Not reported	2601 W MARINA PL	22	79
Not reported	2601 W. MARINA PL, SUIT	22	80
Not reported	2601 WEST MARINA PLACE	22	80
Not reported	2601 W MARINA PL	22	81
Not reported	2601 W MARINA PL	22	81
Not reported	2601 W MARINA PL, ELLIO	22	82
Not reported	2601 W MARINA PL, ELLIO	22	82
Not reported	2601 W MARINA PLACE	22	82
Not reported	2601 W MARINA PL	22	83
Not reported	2601 W MARINA PL	22	83
Not reported	2601 W MARINA PL	22	83
Not reported	2601 W MARINA PLACE	22	84
Not reported	1560 29TH AVE W, DRAIN	24	87
Not reported	401 ELLIOTT AVE W	38	114

PROPRIETARY 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

A review of the Coal Gas list, as provided by EDR, has revealed that there is 1 Coal Gas site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SEATTLE LIGHTING CO.	1143 ELLIOTT AV. N.W.	28	95

BROWNFIELDS DATABASES

EXECUTIVE SUMMARY

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 08/19/2003 has revealed that there are 9 VCP sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
<i>UNITED SERVICES</i>	<i>3450 16TH AV W</i>	<i>2</i>	<i>7</i>
<i>SAMIS COMPANY PROPERTY</i>	<i>1523 1535 1541 15TH AVE</i>	<i>20</i>	<i>36</i>
<i>SEATTLE PORT TERMINAL 91</i>	<i>2001 W GARFIELD ST</i>	<i>20</i>	<i>38</i>
<i>PORT OF SEATTLE TERM 90 PIPELI</i>	<i>2001 W GARFIELD ST</i>	<i>20</i>	<i>41</i>
<i>RUDD PAINT & VARNISH CO</i>	<i>1608-1630 15TH AVE W</i>	<i>20</i>	<i>59</i>
<i>TRIAD INTERBAY LLC</i>	<i>1631 15TH AVE W</i>	<i>20</i>	<i>64</i>
<i>ADAMS NEWS CO INC</i>	<i>1555 W GALER ST</i>	<i>25</i>	<i>93</i>
<i>UEKI CORP</i>	<i>600-614 ELLIOTT AVE W</i>	<i>36</i>	<i>108</i>
<i>Not reported</i>	<i>401 ELLIOTT AVE W</i>	<i>38</i>	<i>114</i>

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
<u>FEDERAL ASTM STANDARD</u>	
NPL	0
Proposed NPL	0
CERCLIS	0
CERC-NFRAP	4
CORRACTS	1
RCRIS-TSD	1
RCRIS Lg. Quan. Gen.	3
RCRIS Sm. Quan. Gen.	37
ERNS	40
<u>STATE ASTM STANDARD</u>	
CSCSL	17
HSL	0
State Landfill	0
LUST	17
UST	34
VCP	9
INDIAN UST	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>	
CONSENT	0
ROD	0
Delisted NPL	0
FINDS	41
HMIRS	1
MLTS	0
MINES	0
NPL Liens	0
PADS	1
US BROWNFIELDS	0
DOD	0
RAATS	1
TRIS	0
TSCA	0
SSTS	0
FTTS	1
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>	
CSCSL NFA	6
WA ICR	20
SPILLS	30
WA Emissions	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>	
Coal Gas	1

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
<u>BROWNFIELDS DATABASES</u>	
US BROWNFIELDS	0
VCP	9

NOTES:

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**1 FOSS MARITIME CO
 660 W EWING ST
 SEATTLE, WA 98119**

**PADS 1000375162
 CSCSL WAD067172288
 FINDS
 LUST
 SPILLS
 WA ICR
 RCRIS-LQG
 UST**

RCRIS:

Owner: FOSS MARITIME CO
 (206) 281-3800
 EPA ID: WAD067172288
 Contact: FRANK WILLIAMSON
 (206) 281-3891
 Classification: Large Quantity Generator
 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	8897.00	D002	2640.00
D008	12247.00	F003	8897.00
F005	8897.00		

Violation Status: Violations exist

Regulation Violated: 640
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS
 Date Violation Determined: 06/04/1997
 Actual Date Achieved Compliance: 06/05/1997
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 06/04/1997
 Penalty Type: Not reported

Regulation Violated: 200(2)
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS
 Date Violation Determined: 06/04/1997
 Actual Date Achieved Compliance: 06/05/1997
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 06/04/1997
 Penalty Type: Not reported

There are 2 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19970605
	GENERATOR-GENERAL REQUIREMENTS	19970605

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 AIRS Facility System (AIRS/AFS)
 Biennial Reporting System (BRS)
 Facility Registry System (FRS)
 National Compliance Database (NCDB)
 National Emissions Trends (NET)
 National Toxics Inventory (NTI)
 Permit Compliance System (PCS)

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

FOSS MARITIME CO (Continued)

1000375162

Resource Conservation and Recovery Act Information system (RCRAINFO)

SHWS:

Facility ID: 2399
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 39 8.74
 Longitude: 122 21 57.7
 Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 Independent Site Status - those sites undergoing an independent cleanup:
 Independent Site Assessment of Interim Remedial Action Report received
 WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
 Affected Media: Ground Water
 Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Confirmed above MTCA cleanup levels
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 4
 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: 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: 2399
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 39 8.74
 Longitude: 122 21 57.7
 Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 Independent Site Status - those sites undergoing an independent cleanup:
 Independent Site Assessment of Interim Remedial Action Report received
 WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
 Affected Media: Soil
 Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Confirmed above MTCA cleanup levels
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 4
 EPA Priority Pollutants - Metals and Cyanide: Not reported
 Metals - Other non-priority pollutant medals: Not reported
 Polychlorinated biPhenyls (PCBs): Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

FOSS MARITIME CO (Continued)

1000375162

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):	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: 2399
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 39 8.74
 Longitude: 122 21 57.7

Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 Independent Site Status - those sites undergoing an independent cleanup:
 Independent Site Assessment of Interim Remedial Action Report received
 WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
 Affected Media: Sediments
 Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site

Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Suspected to be present
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	4
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
Polynuclear Aromatic Hydrocarbons (PAH):	Suspected to be present
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:	10863	Ecology Region:	NWRO
Release ID:	5192	Release Date:	03/25/94
Release Status:	Reported Cleaned Up	Status Date:	6/1/95
Alternate Name:	FOSS MARITIME CO		
Lat/Lon	47.65243 / 122.366029		
Affected Media:	Soil		

WA SPILL:

Facility ID:	515183
Material Desc :	PETROLEUM - DIESEL FUEL

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

FOSS MARITIME CO (Continued)

1000375162

Medium: SURFACE WATER-FRESH
 Material Qty: 2
 Material Units: GALLON
 Business Name: FOSS MARITIME
 IPRP Last Name: Not reported
 Date Received: Not reported

Facility ID: 515497
 Material Desc : OTHER HAZARDOUS
 Medium: SURFACE WATER-FRESH
 Material Qty: Not reported
 Material Units: Not reported
 Business Name: SHIPYARD
 IPRP Last Name: Not reported
 Date Received: Not reported

WA ICR:

Date Ecology Received Report: / /
 Contaminants Found at Site: Petroleum products
 Polynuclear aromatic hydrocarbons
 Media Contaminated: Groundwater, Soil
 Cause of Contamination: Not reported
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 92-18
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 12/08/1995
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 94-15
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 01/23/1996
 Contaminants Found at Site: Polynuclear aromatic hydrocarbons
 Media Contaminated: Soil
 Cause of Contamination: Not reported
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 94-22
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

FOSS MARITIME CO (Continued)

1000375162

UST:

Facility ID: 10863
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Closed in Place
 Tank Name: 3
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 10863
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 1
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 10863
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Closed in Place
 Tank Name: 2
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 10863
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 4
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

2

**UNITED SERVICES
 3450 16TH AV W
 SEATTLE, WA 98119**

**CSCSL 1003035050
 CERC-NFRAP WAD044605244
 VCP**

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
 Non NPL Code: NFRAP
 Ownership Status: Other

Federal Facility: Not a Federal Facility

NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
 Assessment: ARCHIVE SITE
 Assessment: PRELIMINARY ASSESSMENT

Completed: 01/01/1980
 Completed: 06/06/1985
 Completed: 06/06/1985

SHWS:

Facility ID: 2190
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 39 3.02
 Longitude: 122 22 39.07

Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action

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

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UNITED SERVICES (Continued)

1003035050

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
 Affected Media: Ground Water
 Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 3
 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: 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: 2190
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 39 3.02
 Longitude: 122 22 39.07
 Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 3
 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: 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

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UNITED SERVICES (Continued)

1003035050

Conventional Contaminants, Inorganic: Not reported

VCP:

Facility ID :	2190
WARM BIN # :	Not reported
Ecology Status :	Independent Remedial Action
NFA Code :	Not reported

3

**BURFIT PROPERTY CITY TOW
 1500 W BERTONA
 SEATTLE, WA 98119**

**CSCSL S103083916
 N/A**

SHWS:

Facility ID:	2581
MTBE Code:	Not reported
Responsible Unit:	Northwest Region
Latitude:	47 39 1.61
Longitude:	122 22 35.4
Ecology Site Status relative to the MTCA cleanup process:	Awaiting Site Hazard Assessment (SHA)
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:	C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Suspected to be present
Horizontal Collection Method:	4
EPA Priority Pollutants - Metals and Cyanide:	Suspected to be present
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:	Not reported
Conventional Contaminants, Inorganic:	Not reported

Facility ID:	2581
MTBE Code:	Not reported
Responsible Unit:	Northwest Region
Latitude:	47 39 1.61
Longitude:	122 22 35.4
Ecology Site Status relative to the MTCA cleanup process:	Awaiting Site Hazard Assessment (SHA)
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:	S (Suspected) - Due to preliminary investigations or the nature of business

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BURFIT PROPERTY CITY TOW (Continued)

S103083916

operations or manufacturing processes, certain contaminants are suspected to be present at the site

Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	4
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:	Suspected to be present
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

4

**FOUR SEASONS CLEANERS 15TH AVE
 2800 15TH AVE W
 SEATTLE, WA 98119**

**RCRIS-SQG 1001234025
 FINDS WAH000004341**

RCRIS:

Owner: FOUR SEASONS CLEANERS
 (206) 286-9696
 EPA ID: WAH000004341
 Contact: DICK PAKKO
 (206) 286-9696

Classification: Conditionally Exempt Small Quantity Generator
 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)

5

**SEATTLE CITY ENG DEPT W ARMOUR ST
 15TH AVE W & W ARMOUR ST NW CO
 SEATTLE, WA 98199**

**RCRIS-SQG 1000421965
 FINDS WAD988472825**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEATTLE CITY ENG DEPT W ARMOUR ST (Continued)

1000421965

RCRIS:

Owner: SEATTLE CITY
 (360) 555-1212
 EPA ID: WAD988472825
 Contact: PAMELA MILLER
 (206) 684-5179
 Classification: Small Quantity Generator
 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)

**6 NORTHWEST ROOTER & PLBG SERVICE
 2800 W THORNDYKE
 SEATTLE, WA 98199**

**UST U001122276
 N/A**

UST:

Facility ID: 1170
 Install Date: 12/31/1964 00:00:00
 Capacity: 1,101 TO 2,000 GALLONS
 Status: Removed
 Tank Name: 1
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

**7 UHAUL CO OF 15TH AVENUE
 2601 15TH AVE W
 SEATTLE, WA 98119**

**LUST U001777774
 UST N/A**

LUST:

Facility ID: 6060	Ecology Region: NWRO
Release ID: 4178	Release Date: 01/19/93
Release Status: Cleanup Started	Status Date: 1/19/93
Alternate Name: U-HAUL 15TH AVE	
Lat/Lon: 47.64288 / 122.377439	
Affected Media: Soil	

Facility ID: 6060	Ecology Region: NWRO
Release ID: 4178	Release Date: 01/19/93
Release Status: Reported Cleaned Up	Status Date: 6/1/95
Alternate Name: U-HAUL 15TH AVE	
Lat/Lon: 47.64288 / 122.377439	
Affected Media: Soil	

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

UHAUL CO OF 15TH AVENUE (Continued)

U001777774

UST:

Facility ID: 6060
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: N/A
 Substance: USED OIL/WASTE OIL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6060
 Install Date: 1/1/1976 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 2
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6060
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 6
 Substance: HEATING FUEL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6060
 Install Date: 1/1/1976 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 4
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6060
 Install Date: 1/1/1976 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 3
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6060
 Install Date: 1/1/1976 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 5
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UHAUL CO OF 15TH AVENUE (Continued)

U001777774

Facility ID: 6060
 Install Date: 1/1/1976 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 1
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

7

**U HAUL CO SEATTLE
 2601 15TH AVE W
 SEATTLE, WA 98119**

**RCRIS-SQG 1000659806
 FINDS WAD988494829
 WA ICR**

RCRIS:

Owner: U HAUL CO
 (206) 285-0860
 EPA ID: WAD988494829
 Contact: LAWRENCE DURARM
 (206) 723-1685
 Classification: Small Quantity Generator
 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 ICR:

Date Ecology Received Report: 09/22/1993
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 93-18
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

7

**ACCUCRAFT COLLISION CENTER INC
 2600 15TH AVE W
 SEATTLE, WA 98119**

**RCRIS-SQG 1004793729
 FINDS WAD980980858**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

ACCUCRAFT COLLISION CENTER INC (Continued)

1004793729

RCRIS:

Owner: ACCUCRAFT COLLISION CENTER INC
 (206) 283-4369
 EPA ID: WAD980980858
 Contact: DAVID YOON
 (206) 283-4369
 Classification: Conditionally Exempt Small Quantity Generator
 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)

8

**BUTTERWORTH FUNERAL HOME
 700 W. RAYE
 SEATTLE, WA 98119**

**WA ICR S104486131
 N/A**

WA ICR:

Date Ecology Received Report: 06/22/1992
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 92-38
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 06/22/1992
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 92-39
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 07/31/1992
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 92-30
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 05/08/1996
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BUTTERWORTH FUNERAL HOME (Continued)

S104486131

Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 94-26
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

**8 THE MOUNT PLEASANT CEMETERY COMPANY
 700 W RAYE
 SEATTLE, WA 98119**

**LUST U003024994
 UST N/A**

LUST:

Facility ID:	100869	Ecology Region:	NWRO
Release ID:	3343	Release Date:	06/01/95
Release Status:	Cleanup Started	Status Date:	6/1/95
Alternate Name:	Not reported		
Lat/Lon	47.64294 / 122.367519		
Affected Media:	Soil		

Facility ID:	100869	Ecology Region:	NWRO
Release ID:	3343	Release Date:	06/01/95
Release Status:	Reported Cleaned Up	Status Date:	9/24/98
Alternate Name:	Not reported		
Lat/Lon	47.64294 / 122.367519		
Affected Media:	Soil		

UST:

Facility ID: 100869
 Install Date: 5/2/1977 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 2
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 100869
 Install Date: 4/7/1971 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 1
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

**9 2601 20TH AVENUE WEST
 SEATTLE, WA**

**HMIRS 2002050438
 N/A**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

9

**2601 20TH AVE W
 SEATTLE, WA 98199**

**CSCSL S100079753
 SPILLS N/A**

SHWS:

Facility ID: 2330
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 36.24
 Longitude: 122 23 0.02
 Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: Unknown
 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: 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: 2330
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 36.24
 Longitude: 122 23 0.02
 Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: Unknown
 EPA Priority Pollutants - Metals and Cyanide: Not reported
 Metals - Other non-priority pollutant medals: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

(Continued)

S100079753

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: 2330
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 36.24
 Longitude: 122 23 0.02

Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)

Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	Unknown
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:	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

WA SPILL:

Facility ID: 523270
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SOIL
 Material Qty: 2000
 Material Units: GALLON
 Business Name: BURLINGTON NORTHERN RAILROAD
 IPRP Last Name: Not reported
 Date Received: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

(Continued)

S100079753

**9 MEHRER DRYWALL INC
 2657 20TH AVE W
 SEATTLE, WA 98199**

**LUST U000598010
 WA ICR N/A
 UST**

LUST:

Facility ID:	101000	Ecology Region:	NWRO
Release ID:	443643	Release Date:	03/30/98
Release Status:	Cleanup Started	Status Date:	3/30/98
Alternate Name:	Not reported		
Lat/Lon	47.6436 / 122.390159		
Affected Media:	Soil		

WA ICR:

Date Ecology Received Report:	05/20/1998
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-04
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

UST:

Facility ID:	101000
Install Date:	12/30/1981 00:00:00
Capacity:	5,000 TO 9,999 GALLONS
Status:	Operational
Tank Name:	REGULAR
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western

Facility ID:	101000
Install Date:	12/30/1981 00:00:00
Capacity:	2,001 TO 4,999 GALLONS
Status:	Operational
Tank Name:	UNLEADED
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western

**10 RESIDENCE 29TH AVE W (EXEMPT)
 2560 29TH AVE W
 SEATTLE, WA 98199**

**WA ICR U003710135
 UST N/A**

WA ICR:

Date Ecology Received Report:	07/21/1999
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	98-19
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

RESIDENCE 29TH AVE W (EXEMPT) (Continued)

U003710135

UST:
 Facility ID: 515715
 Install Date: 1/1/1900 00:00:00
 Capacity: 111 TO 1,000 GALLONS
 Status: Exempt
 Tank Name: 1
 Substance: HEATING FUEL
 Compartment #: 1
 Ecology Region: North Western

11

**2515 THORNDYKE AVE
 SEATTLE, WA**

**SPILLS S105686879
 N/A**

WA SPILL:
 Facility ID: 529524
 Material Desc : SEWAGE/SLUDGE
 Medium: SURFACE WATER-FRESH
 Material Qty: 0
 Material Units: Not reported
 Business Name: CONTRACTOR?
 IPRP Last Name: Not reported
 Date Received: Not reported

12

**COASTAL TRANSPORTION 2502 13TH AVE WEST
 COASTAL TRANSPORTION 2502 13TH AVE WEST
 SEATTLE, WA**

**ERNS 90185168
 N/A**

13

**SEATTLE, CY OF, INTERBAY-OLD LANDFILL
 W WHEELER & 15 TH AV W
 SEATTLE, WA 98119**

**CERC-NFRAP 1003880486
 WAD980974729**

CERCLIS-NFRAP Classification Data:		
Site Incident Category:	Not reported	Federal Facility: Not a Federal Facility
Non NPL Code:	NFRAP	
Ownership Status:	Other	NPL Status: Not on the NPL
CERCLIS-NFRAP Assessment History:		
Assessment:	DISCOVERY	Completed: 06/01/1984
Assessment:	PRELIMINARY ASSESSMENT	Completed: 06/22/1984
Assessment:	SITE INSPECTION	Completed: 09/01/1984
Assessment:	SITE INSPECTION	Completed: 08/18/1988
Assessment:	ARCHIVE SITE	Completed: 08/18/1988

13

**INTERBAY OLD LANDFILL
 W WHEELER ST / 15TH AVE W
 SEATTLE, WA 98119**

**CSCSL S100079812
 N/A**

SHWS:
 Facility ID: 2135
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 26.59
 Longitude: 122 22 34.46
 Ecology Site Status relative to the MTCA cleanup process:
 Awaiting Site Hazard Assessment (SHA)
 Independent Site Status - those sites undergoing an independent cleanup:
 Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

INTERBAY OLD LANDFILL (Continued)

S100079812

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

Affected Media: Ground Water
 Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site

Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Suspected to be present
Horizontal Collection Method:	3
EPA Priority Pollutants - Metals and Cyanide:	Suspected to be present
Metals - Other non-priority pollutant medals:	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):	Suspected to be present
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: 2135
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 26.59
 Longitude: 122 22 34.46

Ecology Site Status relative to the MTCA cleanup process:
 Awaiting Site Hazard Assessment (SHA)

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: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site

Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Suspected to be present
Horizontal Collection Method:	3
EPA Priority Pollutants - Metals and Cyanide:	Suspected to be present
Metals - Other non-priority pollutant medals:	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):	Suspected to be present
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

INTERBAY OLD LANDFILL (Continued)

S100079812

Conventional Contaminants, Inorganic: Not reported

Facility ID: 2135
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 26.59
 Longitude: 122 22 34.46
 Ecology Site Status relative to the MTCA cleanup process:
 Awaiting Site Hazard Assessment (SHA)
 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: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site

Arsenic Code: Not reported

Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Suspected to be present
 Horizontal Collection Method: 3
 EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
 Metals - Other non-priority pollutant medals: 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): Suspected to be present
 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

14

**AARON FINE DRY CLEANING QUEEN ANNE
 2402 QUEEN ANNE AVE N
 SEATTLE, WA 98109**

**RCRIS-SQG 1000659231
 CSCSL WAD988488987
 FINDS
 WA ICR**

RCRIS:
 Owner: DONALD KNIPE
 (206) 233-0483
 EPA ID: WAD988488987
 Contact: MICHAEL @ TM SE THORNES
 Classification: Small Quantity Generator
 TSDF Activities: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

AARON FINE DRY CLEANING QUEEN ANNE (Continued)

1000659231

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)

SHWS:

Facility ID: 34515715
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 22.81
 Longitude: 122 21 29.21
 Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 Independent Site Status - those sites undergoing an independent cleanup:
 Release report received, awaiting assessment by Potentially Liable Person (PLP)
 WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
 Affected Media: Soil
 Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 4
 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

WA ICR:

Date Ecology Received Report: 08/07/1998
 Contaminants Found at Site: Total petroleum hydrocarbons
 Media Contaminated: Groundwater, Soil
 Cause of Contamination: Not reported
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 98-06
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 08/07/1998
 Contaminants Found at Site: Total petroleum hydrocarbons
 Media Contaminated: Groundwater, Soil
 Cause of Contamination: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

AARON FINE DRY CLEANING QUEEN ANNE (Continued)

1000659231

Region:	North Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	98-07
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

**15 ULTRA COATINGS INC
2218 15TH AVE W
SEATTLE, WA 98119**

**FINDS 1004612673
FTTS 110011627828**

FTTS Insp:

Region:	10
Inspected Date:	11/30/1994
Insp Number:	199411302172 1
Violation occurred:	Not reported
Inspector:	DAVIS
Investigation Type:	General Product Review
Facility Function:	Marketplace
Investig Reason:	Neutral Scheme, Region
Legislation Code:	FIFRA

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
National Compliance Database (NCDB)

**16 WA ARMY NATIONAL GUARD OMS 6
1601 W ARMORY WAY
SEATTLE, WA 98119**

**RCRIS-SQG 1000241886
FINDS WA1211890040**

RCRIS:

Owner:	WA STATE (253) 512-8268
EPA ID:	WA1211890040
Contact:	BILL CONQUERGOOD (206) 270-7382
Classification:	Small Quantity Generator
TSD Activities:	Not reported
Violation Status:	No violations found

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

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

16 NORTHWEST CENTER INDUSTRIES WA ICR S104488179
1600 NW ARMORY WAY N/A
SEATTLE, WA 98119

WA ICR:
 Date Ecology Received Report: 02/02/1996
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 94-21
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

16 1601 W ARMORY WY SPILLS S105388274
SEATTLE, WA N/A

WA SPILL:
 Facility ID: 502474
 Material Desc : PETROLEUM - GASOLINE
 Medium: SOIL
 Material Qty: Not reported
 Material Units: Not reported
 Business Name: WA NATIONAL GUARD
 IPRP Last Name: Not reported
 Date Received: Not reported

16 ORGANIZATIONAL MAINTENANCE SHOP #6 UST U003028191
1601 ARMORY WAY N/A
SEATTLE, WA 98119

UST:
 Facility ID: 7564
 Install Date: 1/1/1987 00:00:00
 Capacity: 5,000 TO 9,999 GALLONS
 Status: Removed
 Tank Name: WA125-2
 Substance: DIESEL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 7564
 Install Date: 1/1/1987 00:00:00
 Capacity: 1,101 TO 2,000 GALLONS
 Status: Removed
 Tank Name: WA125-1
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

ORGANIZATIONAL MAINTENANCE SHOP #6 (Continued)

U003028191

Facility ID: 7564
 Install Date: 1/1/1987 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Closure in Process
 Tank Name: WA125-3
 Substance: USED OIL/WASTE OIL
 Compartment #: 1
 Ecology Region: North Western

**16 FUDS NW CENTER
 1600 W ARMORY WAY
 SEATTLE, WA 98119**

**CSCSL NFA S104971630
 N/A**

WA NFA:
 Facility/Site Id : 148
 Ecology Status : Independent Remedial Action
 Independent Status Code : Release report recvd, awaiting assesment by PLP
 WARM Bin Number : Not reported
 NFA Code : NFA after Assesment IRAP or VCP
 NFA Date : 2/1/97 0:00
 Program Plan Code : Not reported
 NFA Desc : NFA after assessment, IRAP, or VCP

**16 NW CENTER INDUSTRIES
 1600 W ARMORY WY
 SEATTLE, WA 98119**

**LUST U003528656
 UST N/A**

LUST:

Facility ID:	324141	Ecology Region:	NWRO
Release ID:	324143	Release Date:	10/27/95
Release Status:	Cleanup Started	Status Date:	11/27/95
Alternate Name:	NW CENTER INDUSTRIES		
Lat/Lon	47.63855 / 122.379353		
Affected Media:	Ground Water		

Facility ID:	324141	Ecology Region:	NWRO
Release ID:	324143	Release Date:	10/27/95
Release Status:	Reported Cleaned Up	Status Date:	2/2/96
Alternate Name:	NW CENTER INDUSTRIES		
Lat/Lon	47.63855 / 122.379353		
Affected Media:	Ground Water		

Facility ID:	324141	Ecology Region:	NWRO
Release ID:	324143	Release Date:	10/27/95
Release Status:	Cleanup Started	Status Date:	11/27/95
Alternate Name:	NW CENTER INDUSTRIES		
Lat/Lon	47.63855 / 122.379353		
Affected Media:	Soil		

Facility ID:	324141	Ecology Region:	NWRO
Release ID:	324143	Release Date:	10/27/95
Release Status:	Reported Cleaned Up	Status Date:	2/2/96
Alternate Name:	NW CENTER INDUSTRIES		
Lat/Lon	47.63855 / 122.379353		
Affected Media:	Soil		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

NW CENTER INDUSTRIES (Continued)

U003528656

UST:

Facility ID: 324141
 Install Date: 1/1/1900 00:00:00
 Capacity: 10,000 TO 19,999 GALLONS
 Status: Removed
 Tank Name: 1
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 324141
 Install Date: 1/1/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 2
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 324141
 Install Date: 1/1/1900 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 3
 Substance: DIESEL
 Compartment #: 1
 Ecology Region: North Western

17

**15 AVE W / W ARMORY WAY
 SEATTLE, WA**

**SPILLS S105393213
 N/A**

WA SPILL:

Facility ID: 511608
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SOIL
 Material Qty: 3500
 Material Units: GALLON
 Business Name: RAILROAD
 IPRP Last Name: Not reported
 Date Received: Not reported

17

**GM NAMEPLATE INC
 2040 15TH AVE W
 SEATTLE, WA 98119**

**FINDS 1000124929
 HAZNET WAD009255423
 RCRIS-LQG
 WA UST**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

GM NAMEPLATE INC (Continued)

1000124929

RCRIS:

Owner: DON ROOT
 (206) 284-2200
 EPA ID: WAD009255423
 Contact: KEN GROSS
 (206) 284-2200
 Classification: Large Quantity Generator
 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	3560.00	D007	1882.00
D035	1630.00	F002	3200.00
F003	17700.00	F005	1595.00
F006	7179.00		

Violation Status: Violations exist

Regulation Violated: -320(2)
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS
 Date Violation Determined: 11/22/2000
 Actual Date Achieved Compliance: 01/12/2001
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 12/05/2000
 Penalty Type: Not reported

Regulation Violated: -340(3)
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS
 Date Violation Determined: 11/22/2000
 Actual Date Achieved Compliance: 12/18/2000
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 12/05/2000
 Penalty Type: Not reported

Regulation Violated: -802(5)(a)
 Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
 Date Violation Determined: 11/05/1998
 Actual Date Achieved Compliance: 02/05/1999
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 12/03/1998
 Penalty Type: Not reported

Regulation Violated: -200(1)(b)ii & 640(4)
 Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
 Date Violation Determined: 11/05/1998
 Actual Date Achieved Compliance: 02/05/1999
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 12/03/1998
 Penalty Type: Not reported

Regulation Violated: -200(2), -200(1)(d) & -630(5)a
 Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
 Date Violation Determined: 11/05/1998
 Actual Date Achieved Compliance: 02/05/1999
 Enforcement Action: WRITTEN INFORMAL

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GM NAMEPLATE INC (Continued)

1000124929

Enforcement Action Date:	12/03/1998
Penalty Type:	Not reported
Regulation Violated:	-200(1)(b) & -630(5)a
Area of Violation:	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/05/1998
Actual Date Achieved Compliance:	02/05/1999
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	12/03/1998
Penalty Type:	Not reported
Regulation Violated:	-170, -070(3)
Area of Violation:	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/05/1998
Actual Date Achieved Compliance:	02/05/1999
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	12/03/1998
Penalty Type:	Not reported
Regulation Violated:	-200(1)(b) & REF -630(5)(c)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/25/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	-200(1)(b) & REF -630(b)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/25/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	-200(1)(c)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/25/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	-060(2)
Area of Violation:	GENERATOR-RECORDKEEPING REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/03/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	-082(3)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/31/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

GM NAMEPLATE INC (Continued)

1000124929

Penalty Type:	Not reported
Regulation Violated:	-145
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/03/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	200(1)(a)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/31/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	-200(1)(b) & REF -630(3)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/03/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	-200(1)(b) & BY REF -630(5)(a)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/03/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	200(1)(d)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/31/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	-200(1e)&BY REF-320(1)(2a,b)
Area of Violation:	GENERATOR-RECORDKEEPING REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	03/16/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported
Regulation Violated:	200(1e) & REF -330(1),(2),(3)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	03/03/1992
Actual Date Achieved Compliance:	07/12/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/03/1992
Penalty Type:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GM NAMEPLATE INC (Continued)

1000124929

Regulation Violated: -350(2)(3)(4)
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS
 Date Violation Determined: 03/03/1992
 Actual Date Achieved Compliance: 05/15/1992

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 03/03/1992
 Penalty Type: Not reported

Regulation Violated: -210(1)
 Area of Violation: GENERATOR-MANIFEST REQUIREMENTS
 Date Violation Determined: 03/03/1992
 Actual Date Achieved Compliance: 03/03/1992

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 03/03/1992
 Penalty Type: Not reported

Regulation Violated: -802(1)(5a)
 Area of Violation: GENERATOR-RECORDKEEPING REQUIREMENTS
 Date Violation Determined: 03/03/1992
 Actual Date Achieved Compliance: 05/15/1992

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 03/03/1992
 Penalty Type: Not reported

Regulation Violated: 40 CFR 268.7(a)(1)
 Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
 Date Violation Determined: 03/03/1992
 Actual Date Achieved Compliance: 05/15/1992

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 03/03/1992
 Penalty Type: Not reported

There are 23 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	20010112
	GENERATOR-GENERAL REQUIREMENTS	20001218
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19990205
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19990205
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19990205
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19990205
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19990205
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19920325
	GENERATOR-GENERAL REQUIREMENTS	19920325
	GENERATOR-GENERAL REQUIREMENTS	19920325
	GENERATOR-RECORDKEEPING REQUIREMENTS	19920303
	GENERATOR-GENERAL REQUIREMENTS	19920331
	GENERATOR-GENERAL REQUIREMENTS	19920303
	GENERATOR-GENERAL REQUIREMENTS	19920331
	GENERATOR-GENERAL REQUIREMENTS	19920303
	GENERATOR-GENERAL REQUIREMENTS	19920303
	GENERATOR-GENERAL REQUIREMENTS	19920303
	GENERATOR-GENERAL REQUIREMENTS	19920331
	GENERATOR-RECORDKEEPING REQUIREMENTS	19920316
	GENERATOR-GENERAL REQUIREMENTS	19920712
GENERATOR-GENERAL REQUIREMENTS	19920515	
GENERATOR-MANIFEST REQUIREMENTS	19920303	
GENERATOR-RECORDKEEPING REQUIREMENTS	19920515	

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

GM NAMEPLATE INC (Continued)

1000124929

GENERATOR-LAND BAN REQUIREMENTS

19920515

FINDS:

Other Pertinent Environmental Activity Identified at Site:

- AIRS Facility System (AIRS/AFS)
- Biennial Reporting System (BRS)
- Facility Registry System (FRS)
- NEI
- National Toxics Inventory (NTI)
- Resource Conservation and Recovery Act Information system (RCRAINFO)
- Toxic Chemical Release Inventory System (TRIS)

HAZNET:

- Gepaid: WAD009255423
 TSD EPA ID: CAD008488025
 Gen County: 99
 Tsd County: Los Angeles
 Tons: .2085
 Waste Category: Liquids with pH <UN-> 2 with metals
 Disposal Method: Treatment, Tank
 Contact: G M NAMPLATE INC
 Telephone: (206) 284-2200
 Mailing Address: 2040 15TH AVE W
 SEATTLE, WA 98119 - 2728
 County: 99
- Gepaid: WAD009255423
 TSD EPA ID: CAD044429835
 Gen County: 99
 Tsd County: Los Angeles
 Tons: .5878
 Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
 Disposal Method: Treatment, Incineration
 Contact: G M NAMPLATE INC
 Telephone: (206) 284-2200
 Mailing Address: 2040 15TH AVE W
 SEATTLE, WA 98119 - 2728
 County: 99
- Gepaid: WAD009255423
 TSD EPA ID: CAD044429835
 Gen County: 99
 Tsd County: Los Angeles
 Tons: .2500
 Waste Category: Other organic solids
 Disposal Method: Treatment, Incineration
 Contact: G M NAMPLATE INC
 Telephone: (206) 284-2200
 Mailing Address: 2040 15TH AVE W
 SEATTLE, WA 98119 - 2728
 County: 99

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GM NAMEPLATE INC (Continued)

1000124929

Gepaid: WAD009255423
 TSD EPA ID: CAD044429835
 Gen County: 99
 Tsd County: Los Angeles
 Tons: .1251
 Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
 Disposal Method: Recycler
 Contact: G M NAMPLATE INC
 Telephone: (206) 284-2200
 Mailing Address: 2040 15TH AVE W
 SEATTLE, WA 98119 - 2728
 County 99

Gepaid: WAD009255423
 TSD EPA ID: CAD008488025
 Gen County: 99
 Tsd County: Los Angeles
 Tons: .4587
 Waste Category: Liquids with pH <UN-> 2 with metals
 Disposal Method: Treatment, Tank
 Contact: G M NAMPLATE INC
 Telephone: (206) 284-2200
 Mailing Address: 2040 15TH AVE W
 SEATTLE, WA 98119 - 2728
 County 99

The CA HAZNET database contains 23 additional records for this site.
 Please contact your EDR Account Executive for more information.

UST:

Facility ID: 1332
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 1
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 1332
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 2
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 1332
 Install Date: 10/29/1990 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 3
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

GM NAMEPLATE INC (Continued)

1000124929

**18 PLYMOUTH SQUARE APARTMENTS (EXEMPT)
2320 W PLYMOUTH
SEATTLE, WA 98199**

**LUST U003750035
UST N/A**

LUST:

Facility ID:	200285	Ecology Region:	NWRO
Release ID:	3921	Release Date:	10/12/92
Release Status:	Cleanup Started	Status Date:	5/21/95
Alternate Name:	PLYMOUTH SQUARE APARTMENTS (EXEMPT)		
Lat/Lon	47.63604 / 122.388739		
Affected Media:	Soil		

UST:

Facility ID:	200285
Install Date:	1/1/1900 00:00:00
Capacity:	111 TO 1,000 GALLONS
Status:	Exempt
Tank Name:	1
Substance:	HEATING FUEL
Compartment #:	1
Ecology Region:	North Western

**19 HOWE STREET SOC 070757
1403 W HOWE STREET
SEATTLE, WA 98119**

**UST U000712636
N/A**

UST:

Facility ID:	101247
Install Date:	1/1/1967 00:00:00
Capacity:	111 to 1,100 Gallons
Status:	Removed
Tank Name:	2
Substance:	USED OIL/WASTE OIL
Compartment #:	1
Ecology Region:	North Western

Facility ID:	101247
Install Date:	1/1/1967 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	1
Substance:	LEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western

**20 1515 15TH AVE WEST
1515 15TH AVE WEST
SEATTLE, WA**

**ERNS 90159235
N/A**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

20 ALEXANDERS U RENT INC **RCRIS-SQG 1004793374**
1523 15TH AVE W **FINDS WAD019289610**
SEATTLE, WA 98119

RCRIS:
 Owner: THOMAS ALEXANDER
 (206) 282-1966
 EPA ID: WAD019289610
 Contact: THOMAS ALEXANDER
 (206) 282-1966
 Classification: Conditionally Exempt Small Quantity Generator
 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)

20 ELLIOTT INDUSTRIAL PARK **WA ICR S105063526**
1523-1541 15TH AVE. W. **N/A**
SEATTLE, WA 98119

WA ICR:
 Date Ecology Received Report: 02/22/2001
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Groundwater
 Cause of Contamination: Not reported
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 98-39
 County Code: 17.00000
 Contact: Not reported
 Report Title: Ground Water Sampling Survey - November 2000

20 1523 15TH AVE W **SPILLS S105400162**
SEATTLE, WA **N/A**

WA SPILL:
 Facility ID: 523900
 Material Desc : PETROLEUM - OIL OTHER
 Medium: IMPERMEABLE CONTAINMENT
 Material Qty: Not reported
 Material Units: Not reported
 Business Name: ALEXANDER RENTAL
 IPRP Last Name: Not reported
 Date Received: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

20	SAMMIS COMPANY (FOUR REPORTS) 1523-1545 15TH AVE. W. SEATTLE, WA 98119	WA ICR	S104485902 N/A
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WA ICR:

Date Ecology Received Report:	02/07/2000
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Spill, Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-24
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

20	LIGHTHOUSE UNIFORM CO 1532 15TH AVE W SEATTLE, WA 98119	UST	U003732840 N/A
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UST:

Facility ID:	519353
Install Date:	1/1/1900 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	A
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western
Facility ID:	519353
Install Date:	1/1/1964 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	B
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western
Facility ID:	519353
Install Date:	1/1/1900 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	C
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western

20	USN LEASING PIER 90 BERTH 5 W OFF ELLIOT AVE W & W GARFLD SEATTLE, WA 98119	RCRIS-SQG FINDS	1000474056 WAD988481404
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MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

USN LEASING PIER 90 BERTH 5 (Continued)

1000474056

RCRIS:

Owner: USN REGION NW
 (360) 555-1212
 EPA ID: WAD988481404
 Contact: WARREN WALTON
 (206) 526-3396
 Classification: Small Quantity Generator
 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)

20

**SAMIS COMPANY PROPERTY
 1523 1535 1541 15TH AVE W
 SEATTLE, WA 98119**

**CSCSL S104918032
 VCP N/A**

SHWS:

Facility ID: 41667164
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 59
 Longitude: 122 22 35
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Suspected to be present
 Horizontal Collection Method: 4
 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: Confirmed above MTCA cleanup levels
 Phenolic Compounds: Not reported
 Non-Halogenated Solvents: Suspected to be present
 Dioxin: Not reported
 Polynuclear Aromatic Hydrocarbons (PAH): Suspected to be present
 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: 41667164
 MTBE Code: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SAMIS COMPANY PROPERTY (Continued)

S104918032

Responsible Unit: Northwest Region
 Latitude: 47 37 59
 Longitude: 122 22 35
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Suspected to be present
 Horizontal Collection Method: 4
 EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
 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: Suspected to be present
 Dioxin: Not reported
 Polynuclear Aromatic Hydrocarbons (PAH): Suspected to be present
 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: 41667164
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 59
 Longitude: 122 22 35
 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: Surface Water
 Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Suspected to be present
 Horizontal Collection Method: 4
 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: Suspected to be present
 Phenolic Compounds: Not reported
 Non-Halogenated Solvents: Suspected to be present

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SAMIS COMPANY PROPERTY (Continued)

S104918032

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

VCP:

Facility ID :	41667164
WARM BIN # :	4
Ecology Status :	Independent Remedial Action
NFA Code :	Not reported

20

**SEATTLE PORT TERMINAL 91
 2001 W GARFIELD ST
 SEATTLE, WA 98119**

**RCRIS-SQG 1000421925
 FINDS WAD980982706
 WA ICR
 VCP**

RCRIS:

Owner:	SEATTLE PORT (206) 728-3201
EPA ID:	WAD980982706
Contact:	LEAH ALCYON (206) 728-3562

Classification: Small Quantity Generator
 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 ICR:

Date Ecology Received Report:	11/21/1991
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report, Final cleanup report
Site Register Issue:	92-12
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	11/13/1991
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	92-11
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEATTLE PORT TERMINAL 91 (Continued)

1000421925

VCP:

Facility ID : 24768
 WARM BIN # : 1
 Ecology Status : Independent Remedial Action
 NFA Code : Not reported

20

**SEATTLE PORT TERMINAL 91 TANK FARM
 2001 W GARFIELD ST
 SEATTLE, WA 98119**

**CSCSL S100270341
 N/A**

SHWS:

Facility ID: 2300
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 2.29
 Longitude: 122 22 58.13
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Confirmed above MTCA cleanup levels
 Halogenated Organic Compounds: Confirmed above MTCA cleanup levels
 Horizontal Collection Method: 4
 EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
 Metals - Other non-priority pollutant medals: Suspected to be present
 Polychlorinated biPhenyls (PCBs): Confirmed above MTCA cleanup levels
 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): Suspected to be present
 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: 2300
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 2.29
 Longitude: 122 22 58.13
 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: Sediments
 Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEATTLE PORT TERMINAL 91 TANK FARM (Continued)

S100270341

	petroleum contamination)	
Arsenic Code:	Not reported	
Base/Neutral/Acid Organics:		Suspected to be present
Halogenated Organic Compounds:		Not reported
Horizontal Collection Method:		4
EPA Priority Pollutants - Metals and Cyanide:		Suspected to be present
Metals - Other non-priority pollutant medals:		Suspected to be present
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):		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:	2300	
MTBE Code:	Not reported	
Responsible Unit:	Northwest Region	
Latitude:	47 38 2.29	
Longitude:	122 22 58.13	
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:	C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)	
Arsenic Code:	Not reported	
Base/Neutral/Acid Organics:		Suspected to be present
Halogenated Organic Compounds:		Confirmed above MTCA cleanup levels
Horizontal Collection Method:		4
EPA Priority Pollutants - Metals and Cyanide:		Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant medals:		Suspected to be present
Polychlorinated biPhenyls (PCBs):		Confirmed above MTCA cleanup levels
Pesticides:		Not reported
Petroleum Products:		Confirmed above MTCA cleanup levels
Phenolic Compounds:		Suspected to be present
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
Facility ID:	2300	
MTBE Code:	Not reported	

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEATTLE PORT TERMINAL 91 TANK FARM (Continued)

S100270341

Responsible Unit: Northwest Region
 Latitude: 47 38 2.29
 Longitude: 122 22 58.13
 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: Air
 Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 4
 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: Suspected to be present
 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

20

**PORT OF SEATTLE TERM 90 PIPELINE RELEASE
 2001 W GARFIELD ST
 SEATTLE, WA 98119**

**CSCSL S104918019
 VCP N/A**

SHWS:
 Facility ID: 47664123
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 59.3
 Longitude: 122 22 44.3
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 4
 EPA Priority Pollutants - Metals and Cyanide: Not reported
 Metals - Other non-priority pollutant medals: Not reported
 Polychlorinated biPhenyls (PCBs): Not reported
 Pesticides: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PORT OF SEATTLE TERM 90 PIPELINE RELEASE (Continued)

S104918019

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

VCP:

Facility ID :	47664123
WARM BIN # :	Not reported
Ecology Status :	Independent Remedial Action
NFA Code :	Not reported

20

**2001 W GARFIELD ST
 SEATTLE, WA**

**SPILLS S105789410
 N/A**

WA SPILL:

Facility ID:	531182
Material Desc :	PETROLEUM - HYDRAULIC OIL
Medium:	SURFACE WATER-MARINE
Material Qty:	15
Material Units:	GALLON
Business Name:	MANSON CONSTRUCTION
IPRP Last Name:	MADDOX
Date Received:	01/07/2003

20

**TERMINAL 91
 2001 W GARFIELD
 SEATTLE, WA 98119**

**CSCSL U000590926
 LUST N/A
 WA ICR
 UST**

SHWS:

Facility ID:	24768
MTBE Code:	Not reported
Responsible Unit:	Northwest Region
Latitude:	47 37 59.3
Longitude:	122 22 44.3
Ecology Site Status relative to the MTCA cleanup process:	Independent Remedial Action
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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)

Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	4
EPA Priority Pollutants - Metals and Cyanide:	Not reported
Metals - Other non-priority pollutant medals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TERMINAL 91 (Continued)

U000590926

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: 24768
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 59.3
 Longitude: 122 22 44.3

Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)

Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	4
EPA Priority Pollutants - Metals and Cyanide:	Suspected to be present
Metals - Other non-priority pollutant medals:	Suspected to be present
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):	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: 24768
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 59.3
 Longitude: 122 22 44.3

Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 Independent Site Status - those sites undergoing an independent cleanup:
 Not reported

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

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TERMINAL 91 (Continued)

U000590926

Affected Media: Soil
 Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 4
 EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
 Metals - Other non-priority pollutant medals: Suspected to be present
 Polychlorinated biPhenyls (PCBs): Confirmed above MTCA cleanup levels
 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

Facility ID: 24768
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 59.3
 Longitude: 122 22 44.3
 Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 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: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site

Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 4
 EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
 Metals - Other non-priority pollutant medals: Suspected to be present
 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
 Polynuclear Aromatic Hydrocarbons (PAH): Suspected to be present
 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 FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TERMINAL 91 (Continued)

U000590926

LUST:

Facility ID:	6271	Ecology Region:	NWRO
Release ID:	2834	Release Date:	08/27/90
Release Status:	Cleanup Started	Status Date:	6/1/95
Alternate Name:	PORT OF SEATTLE TERMINAL 91		
Lat/Lon	47.633968 / 122.382813		
Affected Media:	Ground Water		

Facility ID:	6271	Ecology Region:	NWRO
Release ID:	2834	Release Date:	08/27/90
Release Status:	Cleanup Started	Status Date:	6/1/95
Alternate Name:	PORT OF SEATTLE TERMINAL 91		
Lat/Lon	47.633968 / 122.382813		
Affected Media:	Soil		

WA ICR:

Date Ecology Received Report:	08/14/1989
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-21
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	06/26/2000
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Spill
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-27
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	08/15/1990
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	90-10
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	09/18/1995
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	94-15
County Code:	17.00000

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TERMINAL 91 (Continued)

U000590926

Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	05/01/1997
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	95-16
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	10/09/1996
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	95-16
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	02/22/1996
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	95-16
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	01/04/1996
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-28
County Code:	17.00000
Contact:	Not reported
Report Title:	Site Assessment
Date Ecology Received Report:	06/26/1992
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-28
County Code:	17.00000
Contact:	Not reported
Report Title:	Investigation - City Ice Building

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TERMINAL 91 (Continued)

U000590926

UST:

Facility ID: 6271
 Install Date: 5/9/1995 00:00:00
 Capacity: 20,000 TO 29,999 GALLONS
 Status: Operational
 Tank Name: T91T
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 5/9/1995 00:00:00
 Capacity: 20,000 TO 29,999 GALLONS
 Status: Operational
 Tank Name: T91T
 Substance: UNLEADED GASOLINE
 Compartment #: 2
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 5/9/1995 00:00:00
 Capacity: 20,000 TO 29,999 GALLONS
 Status: Operational
 Tank Name: T91T
 Substance: DIESEL
 Compartment #: 3
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91D
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Exempt
 Tank Name: T-91L
 Substance: USED OIL/WASTE OIL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: T-91I
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TERMINAL 91 (Continued)

U000590926

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91G
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91O
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: T-91H
 Substance: HEATING FUEL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91N
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91F
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 1/1/1956 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91B
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TERMINAL 91 (Continued)

U000590926

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Exempt
 Tank Name: T-91J
 Substance: USED OIL/WASTE OIL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 1/1/1956 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91C
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Exempt
 Tank Name: T-91K
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 1/1/1978 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91A
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91M
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6271
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: T-91E
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

TERMINAL 91 (Continued)

U000590926

**20 BURLINGTON ENVIRONMENTAL INC PIER 91
2001 W GARFIELD ST E SIDE OF BLDG
SEATTLE, WA 98119**

**RCRIS-SQG 1000299416
FINDS WAD000812917
RCRIS-TSD
RAATS
CORRACTS
CERC-NFRAP**

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported	Federal Facility: Not a Federal Facility
Non NPL Code: NFRAP	
Ownership Status: Indian Lands	NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY	Completed: 08/18/1980
Assessment: PRELIMINARY ASSESSMENT	Completed: 04/30/1985
Assessment: ARCHIVE SITE	Completed: 07/11/1988
Assessment: PRELIMINARY ASSESSMENT	Completed: 07/11/1988

CERCLIS-NFRAP Alias Name(s):

CHEMPRO-WASTE OIL TRMT PLT
CHEM PRO INC - PIER 91

CORRACTS Data:

EPA Id:	WAD000812917
Region:	10
Area Name:	SWMU 1-29 AOC 12,13,14,15
Original Scheduled Date:	09/30/1994
Actual Date:	09/15/1994
Corrective Action:	CA600GW - Stabilization Measures Implemented , Groundwater extraction and treatment
2002 NAICS Title:	Waste Management and Remediation Services

EPA Id:	WAD000812917
Region:	10
Area Name:	ENTIRE FACILITY
Original Scheduled Date:	Not reported
Actual Date:	08/05/1996
Corrective Action:	CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
2002 NAICS Title:	Waste Management and Remediation Services

EPA Id:	WAD000812917
Region:	10
Area Name:	ENTIRE FACILITY
Original Scheduled Date:	Not reported
Actual Date:	07/11/1988
Corrective Action:	CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
2002 NAICS Title:	Waste Management and Remediation Services

EPA Id:	WAD000812917
Region:	10
Area Name:	ENTIRE FACILITY
Original Scheduled Date:	Not reported
Actual Date:	04/03/1996
Corrective Action:	CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
2002 NAICS Title:	Waste Management and Remediation Services

EPA Id:	WAD000812917
Region:	10
Area Name:	ENTIRE FACILITY

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BURLINGTON ENVIRONMENTAL INC PIER 91 (Continued)

1000299416

Original Scheduled Date: 9/30/1994
 Actual Date: 10/04/1994
 Corrective Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
 2002 NAICS Title: Waste Management and Remediation Services

The CORRACTS database contains 18 additional records for this site.
 Please contact your EDR Account Executive for more information.

RCRIS Corrective Action Summary:

- Event: Current Human Exposures under Control, More information is needed to make a determination.
 Event Date: 01/15/2002
- Event: Igration of Contaminated Groundwater under Control, More information is needed to make a determination.
 Event Date: 01/15/2002
- Event: Current Human Exposures under Control, More information is needed to make a determination.
 Event Date: 07/25/2001
- Event: Igration of Contaminated Groundwater under Control, More information is needed to make a determination.
 Event Date: 07/25/2001
- Event: RFI Imposition, Focused data collection required for stabilization evaluation.
 Event Date: 04/10/1998
- Event: Current Human Exposures under Control, More information is needed to make a determination.
 Event Date: 09/26/1997
- Event: Igration of Contaminated Groundwater under Control, More information is needed to make a determination.
 Event Date: 09/26/1997
- Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
 Event Date: 12/10/1996
- Event: RFA Determination Of Need For An RFI, RFI is Necessary;
 Event Date: 08/05/1996
- Event: RFI Imposition, Focused data collection required for stabilization evaluation.
 Event Date: 07/03/1996
- Event: RFA Determination Of Need For An RFI, RFI is Necessary;
 Event Date: 04/03/1996
- Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
 Event Date: 10/04/1994
- Event: Stabilization Measures Implemented, Groundwater extraction and treatment (e.g., to achieve groundwater containment, to achieve MCL).
 Event Date: 09/15/1994

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

BURLINGTON ENVIRONMENTAL INC PIER 91 (Continued)

1000299416

Event: Stabilization Measures Evaluation, This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.
 Event Date: 09/29/1993
 Event: RFI Workplan Approved
 Event Date: 07/09/1992
 Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
 Event Date: 10/08/1991
 Event: RFI Imposition
 Event Date: 05/12/1990
 Event: RFI Imposition
 Event Date: 05/07/1990
 Event: RFI Approved
 Event Date: 11/06/1989
 Event: RFA Determination Of Need For An RFI, RFI is Necessary;
 Event Date: 07/11/1988
 Event: RFI Imposition
 Event Date: 07/11/1988
 Event: RFI Imposition
 Event Date: 06/30/1988

RCRIS:

Owner: BURLINGTON ENVIRONMENTAL INC
 (425) 227-0311
 EPA ID: WAD000812917
 Contact: CAROLYN MAYER
 (425) 227-6121

Classification: TSDF
 TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: 200(1)(b)
 Area of Violation: TSD-CONTAINERS REQUIREMENTS
 Date Violation Determined: 04/13/1995
 Actual Date Achieved Compliance: 06/02/1995
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 02/24/1995
 Penalty Type: Not reported
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 04/13/1995
 Penalty Type: Not reported
 Regulation Violated: 200(1)(b)
 Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
 Date Violation Determined: 04/13/1995
 Actual Date Achieved Compliance: 08/15/1995
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 02/24/1995
 Penalty Type: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BURLINGTON ENVIRONMENTAL INC PIER 91 (Continued)

1000299416

Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	04/13/1995
Penalty Type:	Not reported
Regulation Violated:	210(2)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	05/05/1993
Actual Date Achieved Compliance:	05/06/1993
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	08/13/1993
Penalty Type:	Not reported
Regulation Violated:	200(1)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	05/05/1993
Actual Date Achieved Compliance:	09/01/1993
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	08/13/1993
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-LAND BAN REQUIREMENTS
Date Violation Determined:	02/24/1993
Actual Date Achieved Compliance:	04/19/1993
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/18/1993
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS
Date Violation Determined:	02/24/1993
Actual Date Achieved Compliance:	04/19/1993
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/18/1993
Penalty Type:	Not reported
Regulation Violated:	-200(1)(d)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	05/15/1992
Actual Date Achieved Compliance:	05/30/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	08/18/1992
Penalty Type:	Not reported
Regulation Violated:	-303-512(2)(A)(I)
Area of Violation:	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	05/23/1991
Actual Date Achieved Compliance:	09/09/1991
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/13/1991
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/11/1991
Penalty Type:	Not reported
Regulation Violated:	-303060(A)
Area of Violation:	TSD-GENERAL STANDARDS

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BURLINGTON ENVIRONMENTAL INC PIER 91 (Continued)

1000299416

Date Violation Determined: 05/23/1991
 Actual Date Achieved Compliance: 09/09/1991

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
 Enforcement Action Date: 01/02/1986
 Penalty Type: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
 Enforcement Action Date: 06/30/1986
 Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 06/13/1991
 Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 07/11/1991
 Penalty Type: Not reported

Regulation Violated: -303(2)(C)(3)
 Area of Violation: TSD-GENERAL STANDARDS
 Date Violation Determined: 05/23/1991
 Actual Date Achieved Compliance: 09/09/1991

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 06/13/1991
 Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 07/11/1991
 Penalty Type: Not reported

Regulation Violated: Not reported
 Area of Violation: GENERATOR-OTHER REQUIREMENTS
 Date Violation Determined: 12/05/1990
 Actual Date Achieved Compliance: 12/20/1991

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 02/24/1995
 Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 04/13/1995
 Penalty Type: Not reported

Regulation Violated: Not reported
 Area of Violation: TSD-OTHER REQUIREMENTS
 Date Violation Determined: 12/05/1990
 Actual Date Achieved Compliance: 12/20/1991

Regulation Violated: Not reported
 Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
 Date Violation Determined: 05/12/1988
 Actual Date Achieved Compliance: 09/30/1988

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 02/24/1995
 Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 04/13/1995
 Penalty Type: Not reported

Regulation Violated: Not reported
 Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

BURLINGTON ENVIRONMENTAL INC PIER 91 (Continued)

1000299416

Date Violation Determined:	09/28/1987
Actual Date Achieved Compliance:	09/30/1988
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	08/18/1992
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	09/28/1987
Actual Date Achieved Compliance:	09/30/1988
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	08/13/1993
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	09/28/1987
Actual Date Achieved Compliance:	09/30/1988
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	08/13/1993
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined:	05/06/1987
Actual Date Achieved Compliance:	07/04/1994
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/22/1987
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined:	05/06/1987
Actual Date Achieved Compliance:	08/05/1987
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/22/1987
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	05/06/1987
Actual Date Achieved Compliance:	07/04/1994
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/22/1987
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	03/06/1986
Actual Date Achieved Compliance:	09/30/1988
Enforcement Action:	EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date:	04/14/1986
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined:	01/16/1986

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BURLINGTON ENVIRONMENTAL INC PIER 91 (Continued)

1000299416

Actual Date Achieved Compliance:	09/30/1986
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	06/30/1986
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	01/16/1986
Actual Date Achieved Compliance:	09/30/1986
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	06/30/1986
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	12/30/1985
Actual Date Achieved Compliance:	09/30/1988
Enforcement Action:	EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date:	01/27/1986
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined:	12/04/1985
Actual Date Achieved Compliance:	09/30/1988
Enforcement Action:	EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date:	01/02/1986
Penalty Type:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	06/30/1986
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/13/1991
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/11/1991
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined:	12/04/1985
Actual Date Achieved Compliance:	09/30/1988
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/13/1991
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/11/1991
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	02/01/1984
Actual Date Achieved Compliance:	03/30/1984
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/13/1991

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

BURLINGTON ENVIRONMENTAL INC PIER 91 (Continued)

1000299416

Penalty Type: Not reported
 Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 07/11/1991
 Penalty Type: Not reported

There are 26 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	TSD-CONTAINERS REQUIREMENTS	19950602
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19950815
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19930506
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19930901
Compliance Evaluation Inspection	TSD-LAND BAN REQUIREMENTS	19930419
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS	19930419
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19920530
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19910909
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19910909
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19910909
Compliance Evaluation Inspection	GENERATOR-OTHER REQUIREMENTS	19911220
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS	19911220
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19880930
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19880930
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19880930
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19880930
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940704
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19940704
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19870805
Non-Financial Record Review	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19880930
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19860930
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19860930
Non-Financial Record Review	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19880930
Non-Financial Record Review	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19880930
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19880930
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19840330

FINDS:

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

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**UNITED DRAIN OIL PIER 91
 2001 GARFIELD ST W SIDE
 SEATTLE, WA 98119**

**RCRIS-SQG 1000473992
 FINDS WAD988480703**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UNITED DRAIN OIL PIER 91 (Continued)

1000473992

RCRIS:

Owner: UNITED DRAIN OIL
 (360) 555-1212
 EPA ID: WAD988480703
 Contact: PETER RESSLER
 (206) 223-0500
 Classification: Small Quantity Generator
 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)

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**INTERBAY PUMP STATION
 1601 W GARFIELD
 SEATTLE, WA 98112**

**LUST U000594230
 UST N/A**

LUST:

Facility ID:	10082	Ecology Region:	NWRO
Release ID:	1907	Release Date:	01/10/91
Release Status:	Cleanup Started	Status Date:	6/1/95
Alternate Name:	METRO INTERBAY PUMP STATION		
Lat/Lon	47.6333 / 122.378679		
Affected Media:	Soil		

Facility ID:	10082	Ecology Region:	NWRO
Release ID:	1907	Release Date:	01/10/91
Release Status:	Reported Cleaned Up	Status Date:	7/25/02
Alternate Name:	METRO INTERBAY PUMP STATION		
Lat/Lon	47.6333 / 122.378679		
Affected Media:	Soil		

UST:

Facility ID: 10082
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 TO 1,000 GALLONS
 Status: Exempt
 Tank Name: INTBYPS-1
 Substance: BUNKER C
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 10082
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: INTBYPS-2
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

INTERBAY PUMP STATION (Continued)

U000594230

Facility ID: 10082
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: INTBYP3-3
 Substance: USED OIL/WASTE OIL
 Compartment #: 1
 Ecology Region: North Western

20

**RUDD PAINT & VARNISH CO
 1608-1630 15TH AVE W
 SEATTLE, WA 98119**

**RCRIS-SQG 1000183797
 CSCSL WAD009261769
 FINDS
 WA ICR
 CERC-NFRAP
 VCP**

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
 Non NPL Code: NFRAP
 Ownership Status: Other
 Federal Facility: Not a Federal Facility
 NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
 Assessment: ARCHIVE SITE
 Assessment: PRELIMINARY ASSESSMENT
 Completed: 01/01/1983
 Completed: 12/07/1984
 Completed: 12/07/1984

RCRIS:

Owner: RUDD CO INC
 (206) 789-1000
 EPA ID: WAD009261769
 Contact: LAUREL JAMISON
 (206) 789-1000

Classification: Small Quantity Generator
 TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: 200(2)(c)
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS
 Date Violation Determined: 01/25/1996
 Actual Date Achieved Compliance: 01/29/1996

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 01/25/1996
 Penalty Type: Not reported

Regulation Violated: 200(1)(b)ref630(7)
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS
 Date Violation Determined: 01/25/1996
 Actual Date Achieved Compliance: 01/29/1996

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 01/25/1996
 Penalty Type: Not reported

There are 2 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19960129
	GENERATOR-GENERAL REQUIREMENTS	19960129

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

RUDD PAINT & VARNISH CO (Continued)

1000183797

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Biennial Reporting System (BRS)
 Facility Registry System (FRS)
 National Compliance Database (NCDB)
 Resource Conservation and Recovery Act Information system (RCRAINFO)
 Toxic Chemical Release Inventory System (TRIS)

SHWS:

Facility ID: 2170
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 1.86
 Longitude: 122 22 34.39
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 3
 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: 2170
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 1.86
 Longitude: 122 22 34.39
 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: R (Remediated) - Contaminants have been treated, removed, or contained to meet cleanup levels established for the site. (This status determination may only be made by Ecology)

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

RUDD PAINT & VARNISH CO (Continued)

1000183797

Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	3
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:	Treated, removed, or contained
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 ICR:

Date Ecology Received Report:	11/02/1999
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-19
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	09/23/1999
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-19
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	08/05/1999
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-22
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	02/14/2000
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

RUDD PAINT & VARNISH CO (Continued)

1000183797

Region:	North Western
Type of Report Ecology Received:	Not reported
Site Register Issue:	98-23
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	08/14/2001
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-39
County Code:	17.00000
Contact:	Not reported
Report Title:	Ground Water Monitoring 7/9/01
Date Ecology Received Report:	12/11/1991
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	92-26
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	11/21/2002
Contaminants Found at Site:	Not reported
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-54
County Code:	17.00000
Contact:	Not reported
Report Title:	First Quarter Ground Water Monitoring 2002
Date Ecology Received Report:	11/21/2002
Contaminants Found at Site:	Not reported
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-54
County Code:	17.00000
Contact:	Not reported
Report Title:	Third Quarter Ground Water Monitoring 2001
Date Ecology Received Report:	11/21/2002
Contaminants Found at Site:	Not reported
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

RUDD PAINT & VARNISH CO (Continued)

1000183797

Site Register Issue: 98-54
 County Code: 17.00000
 Contact: Not reported
 Report Title: Fourth Quarter Ground Water Monitoring 2001

Date Ecology Received Report: 06/18/1992
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Groundwater, Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 92-29
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 09/14/1999
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 98-17
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 09/26/2000
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 98-29
 County Code: 17.00000
 Contact: Not reported
 Report Title: Ground Water Monitoring and Sampling

Date Ecology Received Report: 03/14/2001
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Groundwater, Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 98-35
 County Code: 17.00000
 Contact: Not reported
 Report Title: Monitoring - December 2000

Date Ecology Received Report: 05/30/2001
 Contaminants Found at Site: Not reported
 Media Contaminated: Groundwater, Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 98-37
 County Code: 17.00000

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

RUDD PAINT & VARNISH CO (Continued)

1000183797

Contact: Not reported
 Report Title: Ground Water Monitoring - First Quarter 2001
 VCP:
 Facility ID : 2170
 WARM BIN # : Not reported
 Ecology Status : Independent Remedial Action
 NFA Code : Not reported

**20 TRIAD INTERBAY LLC
 1631 15TH AVE W
 SEATTLE, WA 98119**

**RCRIS-SQG 1005445130
 FINDS WAH000013854
 CSCSL NFA
 VCP**

RCRIS:
 Owner: TRIAD INTERBAY LLC
 (206) 374-0414
 EPA ID: WAH000013854
 Contact: ROSS WOODS
 (206) 374-0414
 Classification: Small Quantity Generator
 TSD 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)

WA NFA:
 Facility/Site Id : 85657897
 Ecology Status : Independent Remedial Action
 Independent Status Code : Not reported
 WARM Bin Number : Not reported
 NFA Code : NFA after Assesment IRAP or VCP
 NFA Date : 9/5/01 0:00
 Program Plan Code : 4
 NFA Desc : NFA after assessment, IRAP, or VCP

VCP:
 Facility ID : 85657897
 WARM BIN # : Not reported
 Ecology Status : Independent Remedial Action
 NFA Code : NFA after assessment, IRAP, or VCP

**20 RUDD COMPANY, INC.
 1630 15TH AVE W
 SEATTLE, WA 98119**

**LUST U003025945
 UST N/A**

LUST:
 Facility ID: 12743 Ecology Region: NWRO
 Release ID: 2197 Release Date: 04/26/91
 Release Status: Cleanup Started Status Date: 6/1/95
 Alternate Name: RUDD PAINT
 Lat/Lon 47.63385 / 122.37622
 Affected Media: Ground Water

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

RUDD COMPANY, INC. (Continued)

U003025945

Facility ID: 12743 Ecology Region: NWRO
 Release ID: 2197 Release Date: 04/26/91
 Release Status: Monitoring Status Date: 11/3/99
 Alternate Name: RUDD PAINT
 Lat/Lon 47.63385 / 122.37622
 Affected Media: Ground Water

Facility ID: 12743 Ecology Region: NWRO
 Release ID: 2197 Release Date: 04/26/91
 Release Status: Reported Cleaned Up Status Date: 9/14/99
 Alternate Name: RUDD PAINT
 Lat/Lon 47.63385 / 122.37622
 Affected Media: Ground Water

Facility ID: 12743 Ecology Region: NWRO
 Release ID: 2197 Release Date: 04/26/91
 Release Status: Cleanup Started Status Date: 6/1/95
 Alternate Name: RUDD PAINT
 Lat/Lon 47.63385 / 122.37622
 Affected Media: Soil

Facility ID: 12743 Ecology Region: NWRO
 Release ID: 2197 Release Date: 04/26/91
 Release Status: Monitoring Status Date: 11/3/99
 Alternate Name: RUDD PAINT
 Lat/Lon 47.63385 / 122.37622
 Affected Media: Soil

Facility ID: 12743 Ecology Region: NWRO
 Release ID: 2197 Release Date: 04/26/91
 Release Status: Reported Cleaned Up Status Date: 9/14/99
 Alternate Name: RUDD PAINT
 Lat/Lon 47.63385 / 122.37622
 Affected Media: Soil

UST:

Facility ID: 12743
 Install Date: 1/1/1947 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 1
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 1/1/1950 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 3
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

RUDD COMPANY, INC. (Continued)

U003025945

Facility ID: 12743
 Install Date: 1/1/1950 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 2
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 5/6/1985 00:00:00
 Capacity: 1,101 TO 2,000 GALLONS
 Status: Removed
 Tank Name: 4
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 6/30/1991 00:00:00
 Capacity: 111 TO 1,000 GALLONS
 Status: Removed
 Tank Name: 20
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 6/30/1991 00:00:00
 Capacity: 111 TO 1,000 GALLONS
 Status: Removed
 Tank Name: 21
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 6/30/1991 00:00:00
 Capacity: 2,001 TO 4,999 GALLONS
 Status: Removed
 Tank Name: 22
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 6/30/1991 00:00:00
 Capacity: 2,001 TO 4,999 GALLONS
 Status: Removed
 Tank Name: 23
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

RUDD COMPANY, INC. (Continued)

U003025945

Facility ID: 12743
 Install Date: 6/30/1991 00:00:00
 Capacity: 2,001 TO 4,999 GALLONS
 Status: Removed
 Tank Name: 24
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 6/30/1991 00:00:00
 Capacity: 2,001 TO 4,999 GALLONS
 Status: Removed
 Tank Name: 25
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 5/6/1985 00:00:00
 Capacity: 5,000 TO 9,999 GALLONS
 Status: Removed
 Tank Name: 5
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 5/6/1985 00:00:00
 Capacity: 5,000 TO 9,999 GALLONS
 Status: Removed
 Tank Name: 6
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 5/3/1985 00:00:00
 Capacity: 5,000 TO 9,999 GALLONS
 Status: Removed
 Tank Name: 7
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 5/3/1985 00:00:00
 Capacity: 5,000 TO 9,999 GALLONS
 Status: Removed
 Tank Name: 8
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

RUDD COMPANY, INC. (Continued)

U003025945

Facility ID: 12743
 Install Date: 5/2/1985 00:00:00
 Capacity: 5,000 TO 9,999 GALLONS
 Status: Removed
 Tank Name: 9
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 1/1/1950 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 0
 Substance: HEATING FUEL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 1/1/1959 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 11
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 1/1/1959 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 12
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 1/1/1950 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 13
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 12743
 Install Date: 1/1/1959 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 10
 Substance: HAZARDOUS SUBSTANCE
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

RUDD COMPANY, INC. (Continued)

U003025945

**20 EZ MINI STORAGE
1634 15TH AVE W
SEATTLE, WA 98119**

**UST U003026119
N/A**

UST:

Facility ID: 1818
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 1
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 1818
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 2
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

**20 JOSEPH SMITH ESTATE
1641-1801 15TH AVE W
SEATTLE, WA 98119**

**CSCSL S102258163
N/A**

SHWS:

Facility ID: 2345
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 38 3.16
 Longitude: 122 22 34.5
 Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 Independent Site Status - those sites undergoing an independent cleanup:
 Independent Site Assessment of Interim Remedial Action Report received
 WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
 Affected Media: Ground Water
 Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 3
 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: Confirmed above MTCA cleanup levels
 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

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

JOSEPH SMITH ESTATE (Continued)

S102258163

Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported
Facility ID:	2345
MTBE Code:	Not reported
Responsible Unit:	Northwest Region
Latitude:	47 38 3.16
Longitude:	122 22 34.5
Ecology Site Status relative to the MTCA cleanup process:	Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:	Independent Site Assessment of Interim Remedial Action Report received
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):	
Affected Media:	Soil
Media Status:	C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	3
EPA Priority Pollutants - Metals and Cyanide:	Suspected to be present
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:	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

20

**CAR WASH ENTERPRISES (TWO REPORTS)
 1800 15TH AVE. W.
 SEATTLE, WA 98119**

**WA ICR S104484821
 N/A**

WA ICR:

Date Ecology Received Report:	08/25/1998
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-13
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

20	CIRCLE K STORE 5516 BP OIL 1800 15TH AVE W SEATTLE, WA 98119	RCRIS-SQG FINDS LUST UST	1000838826 WAD988516308
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RCRIS:

Owner: GUY STANDARD
 (206) 442-7378

EPA ID: WAD988516308

Contact: TOM DUMONT
 (510) 277-2319

Classification: Small Quantity Generator
 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)

LUST:

Facility ID: 6893	Ecology Region: NWRO
Release ID: 4938	Release Date: 11/11/93
Release Status: Cleanup Started	Status Date: 6/1/95
Alternate Name: CAR WASH ENTERPRISES 15TH W	
Lat/Lon: 47.63458 / 122.377177	
Affected Media: Soil	

Facility ID: 6893	Ecology Region: NWRO
Release ID: 4938	Release Date: 11/11/93
Release Status: Monitoring	Status Date: 9/24/98
Alternate Name: CAR WASH ENTERPRISES 15TH W	
Lat/Lon: 47.63458 / 122.377177	
Affected Media: Soil	

UST:

Facility ID: 6893

Install Date: 6/6/1956 00:00:00

Capacity: 5,000 TO 9,999 GALLONS

Status: Removed

Tank Name: SUPREME

Substance: UNLEADED GASOLINE

Compartment #: 1

Ecology Region: North Western

Facility ID: 6893

Install Date: 6/6/1972 00:00:00

Capacity: 5,000 TO 9,999 GALLONS

Status: Removed

Tank Name: REGULAR #3

Substance: LEADED GASOLINE

Compartment #: 1

Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

CIRCLE K STORE 5516 BP OIL (Continued)

1000838826

Facility ID: 6893
 Install Date: 6/6/1956 00:00:00
 Capacity: 10,000 TO 19,999 GALLONS
 Status: Removed
 Tank Name: REGULAR #1
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6893
 Install Date: 6/6/1972 00:00:00
 Capacity: 10,000 TO 19,999 GALLONS
 Status: Removed
 Tank Name: UNLEADED
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6893
 Install Date: 9/1/1995 00:00:00
 Capacity: 20,000 TO 29,999 GALLONS
 Status: Operational
 Tank Name: 1
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6893
 Install Date: 9/1/1995 00:00:00
 Capacity: 20,000 TO 29,999 GALLONS
 Status: Operational
 Tank Name: 2
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 6893
 Install Date: 9/1/1995 00:00:00
 Capacity: 20,000 TO 29,999 GALLONS
 Status: Operational
 Tank Name: 2
 Substance: UNLEADED GASOLINE
 Compartment #: 2
 Ecology Region: North Western

Facility ID: 6893
 Install Date: 12/31/1964 00:00:00
 Capacity: 5,000 TO 9,999 GALLONS
 Status: Removed
 Tank Name: 6
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CIRCLE K STORE 5516 BP OIL (Continued)

1000838826

Facility ID: 6893
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 5
 Substance: USED OIL/WASTE OIL
 Compartment #: 1
 Ecology Region: North Western

20

**TSUBOTA STEEL AND PIPE
 1805-1827 FIFTEENTH AVE WEST
 SEATTLE, WA 98119**

**LUST 1000164445
 WA ICR N/A
 UST**

LUST:

Facility ID: 7121 Ecology Region: NWRO
 Release ID: 1712 Release Date: 02/06/90
 Release Status: Cleanup Started Status Date: 6/1/95
 Alternate Name: TSUBOTA INDUSTRIAL STEEL
 Lat/Lon 47.63486 / 122.377577
 Affected Media: Ground Water

Facility ID: 7121 Ecology Region: NWRO
 Release ID: 1712 Release Date: 02/06/90
 Release Status: Cleanup Started Status Date: 6/1/95
 Alternate Name: TSUBOTA INDUSTRIAL STEEL
 Lat/Lon 47.63486 / 122.377577
 Affected Media: Soil

WA ICR:

Date Ecology Received Report: 08/18/1998
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Groundwater, Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 98-07
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

UST:

Facility ID: 7121
 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: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TSUBOTA STEEL AND PIPE (Continued)

1000164445

Facility ID: 7121
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 3
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 7121
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 2
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 7121
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 4
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

20

**TSUBOTA INDUSTRIAL SUPPLY CO INC
 1837 15TH AVE W
 SEATTLE, WA 98119**

**RCRIS-SQG 1004793670
 FINDS WAD153714852**

RCRIS:

Owner: CRAIG TSUBOTA
 (206) 282-1844
 EPA ID: WAD153714852
 Contact: DUANE KAMIHARA
 (206) 282-1844

Classification: Small Quantity Generator
 TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

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

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

21 DISTRIBUTION & AUTO SERVICE INC **RCRIS-SQG 1000419738**
2001 W GARFIELD BLDG 156 **FINDS WAD980665004**
SEATTLE, WA 98119

RCRIS:
 Owner: DISTRIBUTION & AUTO SVC INC
 (310) 835-6000
 EPA ID: WAD980665004
 Contact: MIKE GAGNER
 (206) 283-6300
 Classification: Small Quantity Generator
 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)

21 BOEING AEROSPACE CO PIER 90 **RCRIS-SQG 1000257118**
2001 W GARFIELD PIER 90 **FINDS WAD981766496**
SEATTLE, WA 98119

RCRIS:
 Owner: BOEING CO
 (360) 555-1212
 EPA ID: WAD981766496
 Contact: ROBERT DALIN
 (253) 773-5711
 Classification: Small Quantity Generator
 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)

21 PACIFIC TERMINAL SERVICES INC BLDG 19 **RCRIS-SQG 1000252113**
2001 W GARFIELD ST BLDG 19 **FINDS WAD981760762**
SEATTLE, WA 98119

RCRIS:
 Owner: PACIFIC NORTHERN OIL INC
 (206) 282-4421
 EPA ID: WAD981760762
 Contact: TROY GOODMAN
 (206) 938-6500
 Classification: Conditionally Exempt Small Quantity Generator
 TSD Activities: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

PACIFIC TERMINAL SERVICES INC BLDG 19 (Continued)

1000252113

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)

21

**LYDIG CONSTRUCTION INC
 2001 W GARFIELD BLDG C 175
 SEATTLE, WA 98119**

**RCRIS-SQG 1000878998
 FINDS WAD988523387**

RCRIS:

Owner: LYDIG CONSTRUCTION INC
 (360) 555-1212
 EPA ID: WAD988523387
 Contact: DOUG LYDIG
 (509) 534-0451

Classification: Small Quantity Generator
 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)

21

**KIA MOTORS AMERICA DIST AUTO
 2001 W GARFIELD ST BLDG 155 SE
 SEATTLE, WA 98119**

**RCRIS-SQG 1001031526
 FINDS WAR000002311**

RCRIS:

Owner: KIA MOTORS AMERICA
 (360) 555-1212
 EPA ID: WAR000002311
 Contact: DAVID LARSON
 (253) 922-0395

Classification: Small Quantity Generator
 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)

MAP FINDINGS

Map ID	Direction	Distance	Distance (ft.)	Site	Database(s)	EPA ID Number	EDR ID Number
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2002629924 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 0	ERNS	2002626489 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2002612666 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2002628391 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 0	ERNS	2002620284 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2002621528 N/A	
22				2601 W MARINA PL, ELLIOTT BAY FUEL DOCK SEATTLE, WA	SPILLS	S105393340 N/A	
				WA SPILL: Facility ID: 511727 Material Desc : PETROLEUM - DIESEL FUEL Medium: SURFACE WATER-MARINE Material Qty: 1 Material Units: OUNCE Business Name: UNKNOWN IPRP Last Name: Not reported Date Received: Not reported			
22				2601 WEST MARINA PLACE, SEATTLE WA 98199 SEATTLE, WA	SPILLS	S105393506 N/A	
				WA SPILL: Facility ID: 512004 Material Desc : PETROLEUM - GASOLINE Medium: SURFACE WATER-FRESH Material Qty: 1 Material Units: CUP Business Name: FUEL DOCK IPRP Last Name: Not reported Date Received: Not reported			

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site Database(s) EDR ID Number
 EPA ID Number

(Continued)

S105393506

22

2601 W MARINA PL
 SEATTLE, WA

SPILLS S105393578
 N/A

WA SPILL:
 Facility ID: 512155
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: GALLON
 Business Name: UNKNOWN
 IPRP Last Name: Not reported
 Date Received: Not reported

22

2601 W MARINA PL
 SEATTLE, WA

SPILLS S105685908
 N/A

WA SPILL:
 Facility ID: 530398
 Material Desc : PETROLEUM - UNKNOWN
 Medium: SURFACE WATER-MARINE
 Material Qty: 2
 Material Units: QUART
 Business Name: CAPTAIN OF BOAT
 IPRP Last Name: Not reported
 Date Received: Not reported

22

2601 WEST MARINA PLACE
 SEATTLE, WA

SPILLS S105686051
 N/A

WA SPILL:
 Facility ID: 530089
 Material Desc : PETROLEUM - UNKNOWN
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: SHEEN
 Business Name: Not reported
 IPRP Last Name: Not reported
 Date Received: Not reported

22

2601 W. MARINA PL, SEATTLE. ELLIOTT BAY
 SEATTLE, WA

SPILLS S105394274
 N/A

WA SPILL:
 Facility ID: 513435
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: CUP
 Business Name: PLEASURE CRAFT OWNER
 IPRP Last Name: Not reported
 Date Received: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site Database(s) EDR ID Number
 EPA ID Number

(Continued)

S105394274

22

2601 W MARINA PL, SLIP G9
 SEATTLE, WA

SPILLS S105394368
 N/A

WA SPILL:
 Facility ID: 513527
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: GALLON
 Business Name: COMPANY SERVICED VESSEL
 IPRP Last Name: Not reported
 Date Received: Not reported

22

2601 W MARINA PLACE, BETWEEN B / C DOCKS
 SEATTLE, WA

SPILLS S105396560
 N/A

WA SPILL:
 Facility ID: 517173
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: SHEEN
 Business Name: UNKNOWN
 IPRP Last Name: Not reported
 Date Received: Not reported

22

2601 WEST MARINA PLACE, ELLIOTT BAY MARI
 SEATTLE, WA

SPILLS S105398316
 N/A

WA SPILL:
 Facility ID: 520341
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 4
 Material Units: OUNCE
 Business Name: ELLIOTT BAY MARINA FUEL DOCK
 IPRP Last Name: Not reported
 Date Received: Not reported

22

2601 W MARINA PL
 SEATTLE, WA

SPILLS S105393991
 N/A

WA SPILL:
 Facility ID: 512872
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 8
 Material Units: OUNCE
 Business Name: BOAT OPERATOR
 IPRP Last Name: Not reported
 Date Received: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site Database(s) EDR ID Number
 EPA ID Number

(Continued)

S105393991

22 2601 WEST MARINA PLACE ERNS 2002598328
 2601 WEST MARINA PLACE N/A
 SEATTLE, WA 98199

22 2601 WEST MARINA PL ERNS 2002598327
 2601 WEST MARINA PL N/A
 SEATTLE, WA 98199

22 2601 WEST MARINA PL ERNS 2002605640
 2601 WEST MARINA PL N/A
 SEATTLE, WA 0

22 2601 WEST MARINA PL ERNS 2002601649
 2601 WEST MARINA PL N/A
 SEATTLE, WA 98199

22 2601 WEST MARINA PL ERNS 2002591488
 2601 WEST MARINA PL N/A
 SEATTLE, WA 0

22 2601 W. MARINA PL, SUITE K SPILLS S105392804
 SEATTLE, WA N/A

WA SPILL:
 Facility ID: 510788
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: SHEEN
 Business Name: OPERATOR OF VESSEL?
 IPRP Last Name: Not reported
 Date Received: Not reported

22 2601 WEST MARINA PLACE SPILLS S105392411
 SEATTLE, WA N/A

WA SPILL:
 Facility ID: 510045
 Material Desc : PETROLEUM - HYDRAULIC OIL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: OUNCE
 Business Name: VESSEL OWNER
 IPRP Last Name: Not reported
 Date Received: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

22 **2601 W MARINA PL** **SPIILLS** **S105686624**
SEATTLE, WA **N/A**

WA SPILL:
 Facility ID: 529633
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 0
 Material Units: Not reported
 Business Name: Not reported
 IPRP Last Name: Not reported
 Date Received: Not reported

22 **2601 W MARINA PL** **SPIILLS** **S105788585**
SEATTLE, WA **N/A**

WA SPILL:
 Facility ID: 531827
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: SHEEN
 Business Name: Not reported
 IPRP Last Name: UNK
 Date Received: 02/08/2003

22 **ELLIOTT BAY MARINA, INC.** **UST** **U003025208**
2601 W MARINA PL **N/A**
SEATTLE, WA 98199

UST:
 Facility ID: 101713
 Install Date: 3/9/1992 00:00:00
 Capacity: 10,000 TO 19,999 GALLONS
 Status: Operational
 Tank Name: 1
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 101713
 Install Date: 3/9/1992 00:00:00
 Capacity: 10,000 TO 19,999 GALLONS
 Status: Operational
 Tank Name: 1
 Substance: Not reported
 Compartment #: 2
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

22 **2601 W MARINA PL, ELLIOTT BAY MARINA SEATTLE, WA** **SPILLS S105393075 N/A**

WA SPILL:
 Facility ID: 511264
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: OUNCE
 Business Name: UNKNOWN
 IPRP Last Name: Not reported
 Date Received: Not reported

22 **2601 W MARINA PL, ELLIOTT BAY MARINA SEATTLE, WA** **SPILLS S105394763 N/A**

WA SPILL:
 Facility ID: 514228
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 2
 Material Units: QUART
 Business Name: YACHT CARE
 IPRP Last Name: Not reported
 Date Received: Not reported

22 **2601 W MARINA PLACE SEATTLE, WA** **SPILLS S105386782 N/A**

WA SPILL:
 Facility ID: 527292
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: SHEEN
 Business Name: Not reported
 IPRP Last Name: Not reported
 Date Received: Not reported

Facility ID: 430084
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 5
 Material Units: GALLON
 Business Name: UNK
 IPRP Last Name: Not reported
 Date Received: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EDR ID Number
 EPA ID Number

22 2601 W MARINA PL SEATTLE, WA SPILLS S105394457 N/A

WA SPILL:
 Facility ID: 513697
 Material Desc : PETROLEUM - WASTE/USED OIL
 Medium: SURFACE WATER-FRESH
 Material Qty: 1
 Material Units: GALLON
 Business Name: VEHICLE DRIVER
 IPRP Last Name: Not reported
 Date Received: Not reported

22 2601 W MARINA PL SEATTLE, WA SPILLS S105686806 N/A

WA SPILL:
 Facility ID: 531130
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: PINT
 Business Name: OWNER
 IPRP Last Name: Not reported
 Date Received: Not reported

Facility ID: 531130
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: PINT
 Business Name: OWNER
 IPRP Last Name: GILLIS
 Date Received: 01/06/2003

22 2601 W MARINA PL SEATTLE, WA SPILLS S105392923 N/A

WA SPILL:
 Facility ID: 511102
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 2
 Material Units: GALLON
 Business Name: VESSEL OWNER
 IPRP Last Name: Not reported
 Date Received: Not reported

Facility ID: 526373
 Material Desc : PETROLEUM - DIESEL FUEL
 Medium: SURFACE WATER-MARINE
 Material Qty: 1
 Material Units: QUART
 Business Name: Not reported
 IPRP Last Name: Not reported
 Date Received: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

(Continued)

S105392923

Facility ID:	533943
Material Desc :	PETROLEUM - DIESEL FUEL
Medium:	SURFACE WATER-MARINE
Material Qty:	1
Material Units:	SHEEN
Business Name:	Not reported
IPRP Last Name:	UNK
Date Received:	05/22/03

22	2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2002592101 N/A
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22	2601 W MARINA PLACE SEATTLE, WA	SPILLS	S105555003 N/A
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WA SPILL:

Facility ID:	528532
Material Desc :	PETROLEUM - DIESEL FUEL
Medium:	SURFACE WATER-MARINE
Material Qty:	1
Material Units:	GALLON
Business Name:	KAI TORA VESSEL OWNER
IPRP Last Name:	Not reported
Date Received:	Not reported

22	2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2000536539 N/A
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22	2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2001567769 N/A
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22	2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 98199	ERNS	2001569660 N/A
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22	2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 0	ERNS	2001561942 N/A
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MAP FINDINGS

Map ID	Direction	Distance	Distance (ft.)	Site	Database(s)	EPA ID Number	EDR ID Number
22				2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 98199	ERNS	93335267 N/A	
22				2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 98199	ERNS	2001569384 N/A	
22				2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 98199	ERNS	2000524594 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2000532138 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2001561754 N/A	
22				2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 98199	ERNS	2000528967 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2000542713 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2000528121 N/A	
22				2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 98271	ERNS	2000548255 N/A	
22				2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 0	ERNS	2000542031 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2001561619 N/A	

MAP FINDINGS

Map ID	Direction	Distance	Distance (ft.)	Site	Database(s)	EPA ID Number	EDR ID Number
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 0	ERNS	2000546142 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2000535046 N/A	
22				2601 WEST MARINA PL. 2601 WEST MARINA PL. SEATTLE, WA 98199	ERNS	2000538772 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2001553073 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 98199	ERNS	2000534265 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 0	ERNS	2000543488 N/A	
22				2601 WEST MARINA PL 2601 WEST MARINA PL SEATTLE, WA 0	ERNS	2000547352 N/A	
22				2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 98199	ERNS	94371381 N/A	
22				2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 98199	ERNS	2000532703 N/A	
22				2601 WEST MARINA PLACE 2601 WEST MARINA PLACE SEATTLE, WA 98199	ERNS	94375159 N/A	
23				2001 W. GARFIELD STREET PIER 90 BARGE KITSAP 2001 W. GARFIELD STREET PIER 90 BARGE KITSAP SEATTLE, WA	ERNS	98419609 N/A	

MAP FINDINGS

Map ID		EDR ID Number
Direction		
Distance		
Distance (ft.)Site	Database(s)	EPA ID Number

24	1560 29TH AVE W, DRAIN AT CORNER OR 29TH SEATTLE, WA	SPILLS S105391761 N/A
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WA SPILL:

Facility ID:	509021
Material Desc :	OTHER HAZARDOUS
Medium:	SURFACE WATER-FRESH
Material Qty:	Not reported
Material Units:	Not reported
Business Name:	CONTRACTOR
IPRP Last Name:	Not reported
Date Received:	Not reported

25	NORTHERN VENTURES INC 1408 ELLIOTT AVE W SEATTLE, WA 98119	RCRIS-SQG 1000409258 FINDS WAD049983570
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RCRIS:

Owner:	NORTHERN VENTURES INC (360) 555-1212
EPA ID:	WAD049983570
Contact:	RODERICK SAUNDERS (206) 363-9545
Classification:	Small Quantity Generator
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)

25	HILTON SEAFOODS 1437 ELLIOTT AVE. W. SEATTLE, WA 98119	UST U003025577 N/A
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UST:

Facility ID:	11415
Install Date:	12/31/1964 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	1
Substance:	Not reported
Compartment #:	1
Ecology Region:	North Western
Facility ID:	11415
Install Date:	12/31/1964 00:00:00
Capacity:	111 to 1,100 Gallons
Status:	Removed
Tank Name:	2
Substance:	LEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EPA ID Number
 EDR ID Number

HILTON SEAFOODS (Continued)

U003025577

**25 IMMUNEX CORP W GALER ST
 1600 W GALER ST
 SEATTLE, WA 98119**

**FINDS 1005445171
 RCRIS-LQG WAH000014308**

RCRIS:

Owner: IMMUNEX CORP
 (206) 389-4091
 EPA ID: WAH000014308
 Contact: JAMES PALMER
 (206) 389-4091

Classification: Large Quantity Generator
 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)

**25 PENNZOIL PRODUCTS CO.
 1451 ELLIOTT AVE W
 SEATTLE, WA 98119**

**UST U001122589
 N/A**

UST:

Facility ID: 2050
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 7
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 2050
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 2
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 2050
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 3
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

PENNZOIL PRODUCTS CO. (Continued)

U001122589

Facility ID: 2050
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 5
 Substance: USED OIL/WASTE OIL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 2050
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 1
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 2050
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 9
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 2050
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 4
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 2050
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 8
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 2050
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 6
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PENNZOIL PRODUCTS CO. (Continued)

U001122589

**25 BUDGET BATTERIES INC
 1501 ELLIOT W
 SEATTLE, WA 98119**

**UST U001125038
 N/A**

UST:

Facility ID: 7575
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 2
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 7575
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 1
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 7575
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Closed in Place
 Tank Name: 3
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

**25 TRAILWAYS
 1452 ELLIOTT AVE. W.
 SEATTLE, WA 98119**

**UST U001126776
 N/A**

UST:

Facility ID: 11401
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 4
 Substance: USED OIL/WASTE OIL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 11401
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 2
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TRAILWAYS (Continued)

U001126776

Facility ID: 11401
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 1
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 11401
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 3
 Substance: HEATING FUEL
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 11401
 Install Date: 12/31/1964 00:00:00
 Capacity: 111 to 1,100 Gallons
 Status: Removed
 Tank Name: 5
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

25

**BURLINGTON NORTHERN RR TERMIN
 1600 W GALER TERM 88 DOOR 35
 SEATTLE, WA 98119**

**RCRIS-SQG 1000455966
 FINDS WAD988476370**

RCRIS:
 Owner: BURLINGTON NORTHERN & SANTA FE RAILWAY
 (360) 555-1212
 EPA ID: WAD988476370
 Contact: ROBERT DRAGNICH
 (907) 564-3631
 Classification: Small Quantity Generator
 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)

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

25	UNIPAK CORP 1600 W GALER ST DOOR 51 SEATTLE, WA 98119	RCRIS-SQG FINDS	1000920494 WA0000350728
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RCRIS:

Owner: UNIPAK CORP
(360) 555-1212

EPA ID: WA0000350728

Contact: WALLACE JOHNSON
(206) 286-1819

Classification: Small Quantity Generator
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)

25	ADAMS NEWS CO., INC. 1555 W GALOR ST SEATTLE, WA 98119	UST CSCSL NFA	U003028378 N/A
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WA NFA:

Facility/Site Id : 96313273
 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 : 7/7/99 0:00
 Program Plan Code : 4
 NFA Desc : NFA after assessment, IRAP, or VCP

UST:

Facility ID: 816
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 1
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 816
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 2
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

ADAMS NEWS CO., INC. (Continued)

U003028378

Facility ID: 816
 Install Date: 7/10/1989 00:00:00
 Capacity: 5,000 TO 9,999 GALLONS
 Status: Removed
 Tank Name: R1
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 816
 Install Date: 7/10/1989 00:00:00
 Capacity: 10,000 TO 19,999 GALLONS
 Status: Removed
 Tank Name: R2
 Substance: DIESEL
 Compartment #: 1
 Ecology Region: North Western

25

**ADAMS NEWS COMPANY
 1555 W. GALER ST.
 SEATTLE, WA 98119**

**WA ICR 1001819906
 N/A**

WA ICR:

Date Ecology Received Report: 06/09/1999
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Not reported
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 98-16
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 06/09/1999
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 98-17
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

25

**ADAMS NEWS CO INC
 1555 W GALER ST
 SEATTLE, WA 98119**

**RCRIS-SQG 1004794265
 FINDS WAD988500344
 VCP**

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

ADAMS NEWS CO INC (Continued)

1004794265

RCRIS:

Owner: ADAMS NEWS CO INC
 (206) 284-7617
 EPA ID: WAD988500344
 Contact: TOM HUDEN
 (206) 284-7617
 Classification: Small Quantity Generator
 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)

VCP:

Facility ID : 96313273
 WARM BIN # : Not reported
 Ecology Status : Independent Remedial Action
 NFA Code : NFA after assessment, IRAP, or VCP

**26 PANOCO
 PIER 91
 SEATTLE, WA 98119**

**UST U003795302
 N/A**

UST:

Facility ID: 200515
 Install Date: Not reported
 Capacity: Not reported
 Status: Not reported
 Tank Name: Not reported
 Substance: Not reported
 Compartment #: Not reported
 Ecology Region: North Western

**27 SEATTLE FILMWORKS MANUFACTURING MAIN
 1260 16TH AVE W
 SEATTLE, WA 98119**

**RCRIS-SQG 1000659493
 FINDS WAD988491650**

RCRIS:

Owner: SEATTLE FILMWORKS MANUFACTURING
 (206) 281-1390
 EPA ID: WAD988491650
 Contact: JAMES PERRY
 (206) 281-1390
 Classification: Small Quantity Generator
 TSD Activities: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

SEATTLE FILMWORKS MANUFACTURING MAIN (Continued)

1000659493

Violation Status: No violations found

FINDS:

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

**27 GILBERT SCHERER
 1260 16TH AVE W
 SEATTLE, WA 98119**

**UST U000920624
 N/A**

UST:

Facility ID: 3891
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 1.
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

**27 GLACIER PARK CO PIER 88
 1461 THRU 77 ALASKAN WAY W
 SEATTLE, WA 98119**

**RCRIS-SQG 1000660651
 FINDS WAD988503389**

RCRIS:

Owner: GLACIER PARK CO
 (360) 555-1212
 EPA ID: WAD988503389
 Contact: PAUL MALTER
 (817) 347-2562
 Classification: Small Quantity Generator
 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)

**28 SEATTLE LIGHTING CO.
 1143 ELLIOTT AV. N.W.
 SEATTLE, WA 98121**

**Coal Gas G000001228
 N/A**

COAL GAS SITE DESCRIPTION:

1905, Seattle Lighting Co. North Gas Plant is located on the southeast side of S. Lee, between Railroad Av. and Elliott Av. N.W. 1917, site called Seattle Lighting Co. Bay Station.

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

29	PACIFIC COAST HEMPHILL OIL 1039 ELLIOTT AVE W SEATTLE, WA 98119	UST	U001777713 N/A
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UST:

Facility ID:	3007
Install Date:	1/1/1956 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	2R
Substance:	LEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western

Facility ID:	3007
Install Date:	1/1/1956 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	1U
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western

29	WILSON MACHINE WORKS INC 1038 ELLIOTT AVE W SEATTLE, WA 98119	UST	U000802183 N/A
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UST:

Facility ID:	10727
Install Date:	12/31/1964 00:00:00
Capacity:	111 to 1,100 Gallons
Status:	Closed in Place
Tank Name:	1
Substance:	Not reported
Compartment #:	1
Ecology Region:	North Western

29	ELLIOTT DRUM 1038 ELLIOTT AVE W SEATTLE, WA 98119	RCRIS-SQG FINDS	1000199641 WAD981770340
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RCRIS:

Owner:	WA ECY (360) 555-1212
EPA ID:	WAD981770340
Contact:	LORI LEVANDER (360) 867-7000

Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

ELLIOTT DRUM (Continued)

1000199641

FINDS:

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

**29 THE HOME OIL CO. CORPORATION
 1110 ELLIOTT AVE W
 SEATTLE, WA 98119**

**LUST U003029258
 UST N/A**

LUST:

Facility ID:	990	Ecology Region:	NWRO
Release ID:	1404	Release Date:	06/22/89
Release Status:	Cleanup Started	Status Date:	6/1/95
Alternate Name:	HOME OIL FUELING DEPOT		
Lat/Lon	47.6286 / 122.372249		
Affected Media:	Soil		

Facility ID:	990	Ecology Region:	NWRO
Release ID:	1404	Release Date:	06/22/89
Release Status:	Reported Cleaned Up	Status Date:	12/21/92
Alternate Name:	HOME OIL FUELING DEPOT		
Lat/Lon	47.6286 / 122.372249		
Affected Media:	Soil		

UST:

Facility ID:	990
Install Date:	12/31/1964 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	1
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western

Facility ID:	990
Install Date:	12/31/1964 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	2
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	North Western

**29 ACE TANK & EQUIPMENT CO.
 1143 ELLIOTT AVE W. BOX 9039
 SEATTLE, WA 98119**

**UST U003026083
 N/A**

UST:

Facility ID:	1715
Install Date:	12/31/1964 00:00:00
Capacity:	Not reported
Status:	Removed
Tank Name:	4
Substance:	Not reported
Compartment #:	1
Ecology Region:	North Western

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

ACE TANK & EQUIPMENT CO. (Continued)

U003026083

Facility ID: 1715
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 3
 Substance: Not reported
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 1715
 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: North Western

Facility ID: 1715
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 2
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

29

**ACE TANK & EQUIPMENT 1143 ELLIOTT W
 1143 ELLIOTT AVE W
 SEATTLE, WA 98119**

**RCRIS-SQG 1000455956
 FINDS WAD988475737**

RCRIS:

Owner: ACE TANK & EQUIPMENT CO
 (360) 555-1212
 EPA ID: WAD988475737
 Contact: STANLEY BURWELL
 (206) 281-5000

Classification: Small Quantity Generator
 TSD Activities: Not reported

Violation Status: No violations found

FINDS:

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

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

29	SEATTLE LIGHTING STA 1177 ELLIOTT AVE W SEATTLE, WA 98119	CSCSL NFA	S100475777 N/A
WA NFA: Facility/Site Id : 2436 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 : 2/6/02 0:00 Program Plan Code : Not reported NFA Desc : NFA after assessment, IRAP, or VCP			

30	KINNEAR APARTMENTS 905 OLYMPIC WAY W SEATTLE, WA 98119	RCRIS-SQG	1000155005
RCRIS: Owner: KINNEAR APARTMENTS (360) 555-1212 EPA ID: WAD981766678 Contact: EDWARD ESTER (206) 244-2619 Classification: Small Quantity Generator 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)			

31	PIER 88 GALER ST & N ALASKAN WAY SEATTLE, WA 98119	LUST	U001128410																								
UST N/A																											
LUST: <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Facility ID: 101550</td> <td style="width: 30%;">Ecology Region: NWRO</td> </tr> <tr> <td>Release ID: 3123</td> <td>Release Date: 03/09/92</td> </tr> <tr> <td>Release Status: Cleanup Started</td> <td>Status Date: 3/9/92</td> </tr> <tr> <td colspan="2">Alternate Name: PORT OF SEATTLE PIER 88</td> </tr> <tr> <td colspan="2">Lat/Lon 47.63154 / 122.356446</td> </tr> <tr> <td colspan="2">Affected Media: Soil</td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Facility ID: 101550</td> <td style="width: 30%;">Ecology Region: NWRO</td> </tr> <tr> <td>Release ID: 3123</td> <td>Release Date: 03/09/92</td> </tr> <tr> <td>Release Status: Reported Cleaned Up</td> <td>Status Date: 6/1/95</td> </tr> <tr> <td colspan="2">Alternate Name: PORT OF SEATTLE PIER 88</td> </tr> <tr> <td colspan="2">Lat/Lon 47.63154 / 122.356446</td> </tr> <tr> <td colspan="2">Affected Media: Soil</td> </tr> </table>				Facility ID: 101550	Ecology Region: NWRO	Release ID: 3123	Release Date: 03/09/92	Release Status: Cleanup Started	Status Date: 3/9/92	Alternate Name: PORT OF SEATTLE PIER 88		Lat/Lon 47.63154 / 122.356446		Affected Media: Soil		Facility ID: 101550	Ecology Region: NWRO	Release ID: 3123	Release Date: 03/09/92	Release Status: Reported Cleaned Up	Status Date: 6/1/95	Alternate Name: PORT OF SEATTLE PIER 88		Lat/Lon 47.63154 / 122.356446		Affected Media: Soil	
Facility ID: 101550	Ecology Region: NWRO																										
Release ID: 3123	Release Date: 03/09/92																										
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Lat/Lon 47.63154 / 122.356446																											
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Facility ID: 101550	Ecology Region: NWRO																										
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Release Status: Reported Cleaned Up	Status Date: 6/1/95																										
Alternate Name: PORT OF SEATTLE PIER 88																											
Lat/Lon 47.63154 / 122.356446																											
Affected Media: Soil																											

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

PIER 88 (Continued)

U001128410

UST:

Facility ID: 101550
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 6
Substance: Not reported
Compartment #: 1
Ecology Region: North Western

Facility ID: 101550
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 2
Substance: Not reported
Compartment #: 1
Ecology Region: North Western

Facility ID: 101550
Install Date: 12/31/1964 00:00:00
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 4
Substance: Not reported
Compartment #: 1
Ecology Region: North Western

Facility ID: 101550
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 3
Substance: Not reported
Compartment #: 1
Ecology Region: North Western

Facility ID: 101550
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 5
Substance: Not reported
Compartment #: 1
Ecology Region: North Western

Facility ID: 101550
Install Date: 12/31/1964 00:00:00
Capacity: Not reported
Status: Removed
Tank Name: 1
Substance: Not reported
Compartment #: 1
Ecology Region: North Western

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

PIER 88 (Continued)

U001128410

32	NF CORP 16TH AVE W 1230 16TH AVE W PIER 89 SEATTLE, WA 98119	RCRIS-SQG FINDS	1000229375 WAD980974802
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RCRIS:

Owner: NF CORP
(360) 555-1212

EPA ID: WAD980974802

Contact: CLIFFORD KELSEY
(206) 282-4184

Classification: Small Quantity Generator
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)

33	SEATTLE PORT TERMINAL 88 955 ALASKAN WAY W PIER 88 SEATTLE, WA 98119	RCRIS-SQG FINDS	1001806972 WAD988513222
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RCRIS:

Owner: SEATTLE PORT
(206) 728-3201

EPA ID: WAD988513222

Contact: LEAH ALCYON
(206) 728-3562

Classification: Small Quantity Generator
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)

33	LOUIS DREYFUSS CORP 955 ALASKAN WAY W PIER 86 SEATTLE, WA 98119	RCRIS-SQG FINDS	1000235348 WAD980380158
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MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

LOUIS DREYFUSS CORP (Continued)

1000235348

RCRIS:

Owner: CARGILL INC
 (360) 555-1212
 EPA ID: WAD980380158
 Contact: MARK BONK
 (503) 286-0678
 Classification: Small Quantity Generator
 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)

33 PHILLIPS MORRIS SCALE CO
934 ELLIOTT AVE W
SEATTLE, WA 98026

RCRIS-SQG 1001092026
FINDS WAR000006726

RCRIS:

Owner: PHILLIPS MORRIS SCALE CO
 (360) 555-1212
 EPA ID: WAR000006726
 Contact: TODD MACKIE
 (206) 284-6090
 Classification: Small Quantity Generator
 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)

33 LEATHER CARE INC
901 ELLIOTT AVE W
SEATTLE, WA 98119

RCRIS-SQG 1004613983
FINDS WAD980983621

RCRIS:

Owner: STEVEN RITT
 (206) 285-2225
 EPA ID: WAD980983621
 Contact: STEVEN RITT
 (206) 285-2225
 Classification: Conditionally Exempt Small Quantity Generator
 TSDF Activities: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

LEATHER CARE INC (Continued)

1004613983

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 AIRS Facility System (AIRS/AFS)
 Facility Registry System (FRS)
 NEI
 National Toxics Inventory (NTI)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

33

**QUEEN CITY INDUSTRIES
 945 ELLIOT AVE W
 SEATTLE, WA 98119**

**RCRIS-SQG 1000206406
 FINDS WAD009483819**

RCRIS:

Owner: QUEEN CITY INDUSTRIES
 (360) 555-1212
 EPA ID: WAD009483819
 Contact: HARVEY GIFFORD
 (206) 284-6222

Classification: Small Quantity Generator
 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)

34

**UNOCAL SS NO 0255 FORMER
 700 QUEEN ANNE AVE N
 SEATTLE, WA 98119**

**CSCSL S105613395
 N/A**

SHWS:

Facility ID: 59972834
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 31.26
 Longitude: 122 21 28.25
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 4
 EPA Priority Pollutants - Metals and Cyanide: Not reported
 Metals - Other non-priority pollutant metals: Not reported
 Polychlorinated biPhenyls (PCBs): Not reported
 Pesticides: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UNOCAL SS NO 0255 FORMER (Continued)

S105613395

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:	59972834
MTBE Code:	Not reported
Responsible Unit:	Northwest Region
Latitude:	47 37 31.26
Longitude:	122 21 28.25
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:	C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	4
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:	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

35

**FORMER TEXACO SERVICE STATION 211577
 631 QUEEN ANNE AVE N
 SEATTLE, WA 98109**

**RCRIS-SQG 1000658687
 CSCSL WAD988483384
 FINDS**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

FORMER TEXACO SERVICE STATION 211577 (Continued)

1000658687

RCRIS:

Owner: WA ECY
 (360) 555-1212
 EPA ID: WAD988483384
 Contact: BRIAN SATO
 (360) 867-7265
 Classification: Small Quantity Generator
 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)

SHWS:

Facility ID: 77774779
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 30.18
 Longitude: 122 21 23.9
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: Unknown
 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: 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

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

35	MONTEREY APARTMENTS SITE 622 1ST AVE W & QUEEN AVE N SEATTLE, WA 98119	RCRIS-SQG CSCSL FINDS	1000199654 WAD981772858
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RCRIS:

Owner: WA ECY
(360) 555-1212

EPA ID: WAD981772858

Contact: DANIEL CARGILL
(360) 867-7023

Classification: Small Quantity Generator
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)

SHWS:

Facility ID: 2047
MTBE Code: Not reported
Responsible Unit: Northwest Region
Latitude: 47 37 30.04
Longitude: 122 21 28.04
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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)

Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	3
EPA Priority Pollutants - Metals and Cyanide:	Suspected to be present
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:	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: 2047
MTBE Code: Not reported
Responsible Unit: Northwest Region
Latitude: 47 37 30.04

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MONTEREY APARTMENTS SITE (Continued)

1000199654

Longitude: 122 21 28.04
 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: Air
 Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 3
 EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
 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: 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: 2047
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 30.04
 Longitude: 122 21 28.04
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 Arsenic Code: Not reported
 Base/Neutral/Acid Organics: Not reported
 Halogenated Organic Compounds: Not reported
 Horizontal Collection Method: 3
 EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
 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: Confirmed above MTCA cleanup levels
 Dioxin: Not reported
 Polynuclear Aromatic Hydrocarbons (PAH): Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

MONTEREY APARTMENTS SITE (Continued)

1000199654

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

**36 BLACKSTOCK LUMBER
601 ELLIOTT AVE W
SEATTLE, WA 98119**

**CSCSL NFA S104971571
N/A**

WA NFA:

Facility/Site Id :	2540
Ecology Status :	Independent Remedial Action
Independent Status Code :	Final Independant RA Report received
WARM Bin Number :	Not reported
NFA Code :	Restrictive Covenant, Institutional Controls
NFA Date :	9/27/95 0:00
Program Plan Code :	3
NFA Desc :	Restrictive Covenant, Institutional Controls

**36 UEKI CORP
600-614 ELLIOTT AVE W
SEATTLE, WA 98119**

**CSCSL NFA S104971794
VCP N/A**

WA NFA:

Facility/Site Id :	51828819
Ecology Status :	Independent Remedial Action
Independent Status Code :	Final Independant RA Report received
WARM Bin Number :	Not reported
NFA Code :	NFA after Assesment IRAP or VCP
NFA Date :	4/14/98 0:00
Program Plan Code :	4
NFA Desc :	NFA after assessment, IRAP, or VCP

VCP:

Facility ID :	51828819
WARM BIN # :	Not reported
Ecology Status :	Independent Remedial Action
NFA Code :	NFA after assessment, IRAP, or VCP

**36 UEKI CORP
614 ELLIOTT AVE W
SEATTLE, WA 98119**

**WA ICR U003311123
UST N/A**

WA ICR:

Date Ecology Received Report:	01/07/1998
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	95-16
County Code:	17.00000
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report: 01/07/1998

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UEKI CORP (Continued)

U003311123

Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 98-03
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

UST:

Facility ID: 443962
 Install Date: 1/1/1900 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 1
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 443962
 Install Date: 1/1/1900 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 4
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 443962
 Install Date: 1/1/1964 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 3
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 443962
 Install Date: 1/1/1900 00:00:00
 Capacity: Not reported
 Status: Removed
 Tank Name: 2
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

36

**SHELL OIL PRODUCTS
 630 ELLIOTT AVE W
 SEATTLE, WA 98119**

**LUST U003028258
 UST N/A**

LUST:

Facility ID: 7735	Ecology Region: NWRO
Release ID: 309307	Release Date: 06/14/95
Release Status: Awaiting Cleanup	Status Date: 8/15/95
Alternate Name: TEXACO 63 076 0400	
Lat/Lon: 47.62472 / 122.36581	
Affected Media: Ground Water	

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SHELL OIL PRODUCTS (Continued)

U003028258

UST:

Facility ID: 7735
 Install Date: 1/1/1984 00:00:00
 Capacity: 10,000 TO 19,999 GALLONS
 Status: Operational
 Tank Name: 1
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 7735
 Install Date: 1/1/1984 00:00:00
 Capacity: 10,000 TO 19,999 GALLONS
 Status: Operational
 Tank Name: 4
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 7735
 Install Date: 1/1/1984 00:00:00
 Capacity: 10,000 TO 19,999 GALLONS
 Status: Operational
 Tank Name: 2
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

**36 TEXACO #63076 0400
 630 ELLIOTT AVE. W.
 SEATTLE, WA 98199**

**WA ICR S104487722
 N/A**

WA ICR:

Date Ecology Received Report: 06/14/1995
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Groundwater
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 94-05
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

**36 DARIGOLD INC
 635 ELLIOTT AVE W
 SEATTLE, WA 98119**

**LUST U001125905
 WA ICR N/A
 UST**

LUST:

Facility ID: 9477 Ecology Region: NWRO
 Release ID: 2629 Release Date: 07/03/90
 Release Status: Cleanup Started Status Date: 7/3/90
 Alternate Name: DARIGOLD SEATTLE ELLIOTT
 Lat/Lon 47.62454 / 122.367068
 Affected Media: Soil

Facility ID: 9477 Ecology Region: NWRO
 Release ID: 2629 Release Date: 07/03/90

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

DARIGOLD INC (Continued)

U001125905

Release Status: Reported Cleaned Up Status Date: 6/1/95
 Alternate Name: DARIGOLD SEATTLE ELLIOTT
 Lat/Lon: 47.62454 / 122.367068
 Affected Media: Soil

Facility ID: 9477 Ecology Region: NWRO
 Release ID: 309671 Release Date: 08/22/95
 Release Status: Awaiting Cleanup Status Date: 8/29/95
 Alternate Name: DARIGOLD SEATTLE ELLIOTT (1995)
 Lat/Lon: 47.62454 / 122.367068
 Affected Media: Ground Water

Facility ID: 9477 Ecology Region: NWRO
 Release ID: 309671 Release Date: 08/22/95
 Release Status: Cleanup Started Status Date: 8/24/98
 Alternate Name: DARIGOLD SEATTLE ELLIOTT (1995)
 Lat/Lon: 47.62454 / 122.367068
 Affected Media: Ground Water

Facility ID: 9477 Ecology Region: NWRO
 Release ID: 309671 Release Date: 08/22/95
 Release Status: Awaiting Cleanup Status Date: 8/29/95
 Alternate Name: DARIGOLD SEATTLE ELLIOTT (1995)
 Lat/Lon: 47.62454 / 122.367068
 Affected Media: Soil

Facility ID: 9477 Ecology Region: NWRO
 Release ID: 309671 Release Date: 08/22/95
 Release Status: Cleanup Started Status Date: 8/24/98
 Alternate Name: DARIGOLD SEATTLE ELLIOTT (1995)
 Lat/Lon: 47.62454 / 122.367068
 Affected Media: Soil

WA ICR:

Date Ecology Received Report: 02/26/1991
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 91-26
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 12/20/1991
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Groundwater, Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 91-20
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

Date Ecology Received Report: 09/14/1998
 Contaminants Found at Site: Petroleum products

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

DARIGOLD INC (Continued)

U001125905

Media Contaminated: Groundwater, Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 98-15
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

UST:

Facility ID: 9477
 Install Date: 12/31/1964 00:00:00
 Capacity: 2,001 TO 4,999 GALLONS
 Status: Removed
 Tank Name: 2 REG
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 9477
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 1 SOUTH
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 9477
 Install Date: 12/31/1964 00:00:00
 Capacity: Not reported
 Status: Closed in Place
 Tank Name: 1 NORTH
 Substance: UNLEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

36

**TOOL TOWN
 652 ELLIOTT AVE W
 SEATTLE, WA 98119**

**LUST U003665966
 WA ICR N/A
 UST**

LUST:

Facility ID:	512947	Ecology Region:	NWRO
Release ID:	512989	Release Date:	05/17/93
Release Status:	Cleanup Started	Status Date:	4/20/93
Alternate Name:	TOOL TOWN		
Lat/Lon	47.625848 / 122.368655		
Affected Media:	Soil		

Facility ID:	512947	Ecology Region:	NWRO
Release ID:	512989	Release Date:	05/17/93
Release Status:	Reported Cleaned Up	Status Date:	5/17/93
Alternate Name:	TOOL TOWN		
Lat/Lon	47.625848 / 122.368655		
Affected Media:	Soil		

WA ICR:

Date Ecology Received Report: 05/17/1993
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TOOL TOWN (Continued)

U003665966

Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Final cleanup report
 Site Register Issue: 98-18
 County Code: 17.00000
 Contact: Not reported
 Report Title: Not reported

UST:

Facility ID: 512947
 Install Date: 1/1/1964 00:00:00
 Capacity: 111 TO 1,000 GALLONS
 Status: Removed
 Tank Name: 1
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 512947
 Install Date: 1/1/1900 00:00:00
 Capacity: 111 TO 1,000 GALLONS
 Status: Removed
 Tank Name: 2
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 512947
 Install Date: 1/1/1900 00:00:00
 Capacity: 111 TO 1,000 GALLONS
 Status: Removed
 Tank Name: 3
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

Facility ID: 512947
 Install Date: 1/1/1900 00:00:00
 Capacity: 111 TO 1,000 GALLONS
 Status: Removed
 Tank Name: 4
 Substance: LEADED GASOLINE
 Compartment #: 1
 Ecology Region: North Western

37

**CITY OF SEATTLE - METRO BUS BARN
 W. MERCER ST. / 5TH AVE.
 SEATTLE, WA 98119**

**WA ICR S105454328
 N/A**

WA ICR:

Date Ecology Received Report: 07/11/1990
 Contaminants Found at Site: Petroleum products
 Media Contaminated: Soil
 Cause of Contamination: Tank
 Region: North Western
 Type of Report Ecology Received: Interim cleanup report
 Site Register Issue: 90-07
 County Code: 17.00000
 Contact: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

CITY OF SEATTLE - METRO BUS BARN (Continued)

S105454328

Report Title: Not reported

**37 ODEN INVESTMENT CONDOS
 619 5TH AVE W
 SEATTLE, WA 98119**

**LUST S101509297
 N/A**

LUST:

Facility ID: 200196 Ecology Region: NWRO
 Release ID: 2727 Release Date: 06/16/89
 Release Status: Cleanup Started Status Date: 6/16/89
 Alternate Name: ODEN INVESTMENT CONDOS
 Lat/Lon 47.625229 / 122.363238
 Affected Media: Soil

Facility ID: 200196 Ecology Region: NWRO
 Release ID: 2727 Release Date: 06/16/89
 Release Status: Reported Cleaned Up Status Date: 5/21/95
 Alternate Name: ODEN INVESTMENT CONDOS
 Lat/Lon 47.625229 / 122.363238
 Affected Media: Soil

**38 401 ELLIOTT AVE W
 SEATTLE, WA 98101**

**CSCSL S104780216
 SPILLS N/A
 VCP**

SHWS:

Facility ID: 61923958
 MTBE Code: Not reported
 Responsible Unit: Northwest Region
 Latitude: 47 37 21
 Longitude: 122 21 49
 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: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of
 petroleum contamination)
 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): 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

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

(Continued)

S104780216

Conventional Contaminants, Inorganic:	Not reported
Facility ID:	61923958
MTBE Code:	Not reported
Responsible Unit:	Northwest Region
Latitude:	47 37 21
Longitude:	122 21 49
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:	S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site
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):	Suspected to be present
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:	61923958
MTBE Code:	Not reported
Responsible Unit:	Northwest Region
Latitude:	47 37 21
Longitude:	122 21 49
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:	Surface Water
Media Status:	S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site
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

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

(Continued)

S104780216

Pesticides:	Not reported
Petroleum Products:	Suspected to be present
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 SPILL:

Facility ID:	507215
Material Desc :	PETROLEUM - GASOLINE
Medium:	SOIL
Material Qty:	Not reported
Material Units:	Not reported
Business Name:	KOEHLER MCFADYEN CO.
IPRP Last Name:	Not reported
Date Received:	Not reported

VCP:

Facility ID :	61923958
WARM BIN # :	Not reported
Ecology Status :	Independent Remedial Action
NFA Code :	Not reported

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COLEMAN CREOSOTING WORKS
333 ELLIOTT AVE W
SEATTLE, WA 98119

CSCSL S103398153
N/A

SHWS:

Facility ID:	77732426
MTBE Code:	Not reported
Responsible Unit:	Northwest Region
Latitude:	47 37 16.77
Longitude:	122 21 42.4
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:	C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	4
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:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Not reported
Dioxin:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

COLEMAN CREOSOTING WORKS (Continued)

S103398153

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:	77732426
MTBE Code:	Not reported
Responsible Unit:	Northwest Region
Latitude:	47 37 16.77
Longitude:	122 21 42.4
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:	C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
Horizontal Collection Method:	4
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:	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

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DES MOINES	S105063386	WESTERN HOMES PROPERTY	2108 N. PACIFIC ST.	98103	WA ICR
KING COUNTY	S105806023	MCMICKEN HEIGHTS	BETWEEN THE S. 175TH ST. DEAD-END AND INTERSTATE-5		SWF/LF
KING COUNTY	S105806029	RENTON JUNCTION (MONSTER ROAD)	BETWEEN MONSTER ROAD AND THE GREEN F		SWF/LF
KING COUNTY	S105806034	BOW LAKE ABANDONED LANDFILL	IMMEDIATELY EAST OF I-5, ACROSS FROM SOUTH 188TH S		SWF/LF
KING COUNTY	S105806035	CORLISS ABANDONED LANDFILL	IMMEDIATELY WEST OF I-5 BETWEEN NORTH 163RD PLACE		SWF/LF
KING COUNTY	S105806037	PUYALLUP/KIT CORNER ABANDONED LANDFILL	IMMEDIATELY EAST OF I-5 JUST SOUTH OF THE HIGHWAY		SWF/LF
KING COUNTY	S105806011	AUBURN (M & R STREET SITE)	NORTHWEST OF R STREET AND 25TH STREET S.E.		SWF/LF
KING COUNTY	S105806012	AUBURN (ROTARY PARK SITE)	NORTHWEST OF 27TH STREET S.E. AND ALPIN ST. S.E.		SWF/LF
KING COUNTY	S105806013	BOW LAKE	NORTHEAST OF S. 188TH ST. AND INTERSTATE-5		SWF/LF
KING COUNTY	S105806014	CARTON & BORTH	NORTHWEST OF 71ST AVE. N.E. AND N.E. 186TH STREET		SWF/LF
KING COUNTY	S105806015	CORLISS LANDFILL	NORTHEAST OF CORLISS AVE. N. AND N. 163RD STREET		SWF/LF
KING COUNTY	S105806016	EASTGATE ABANDONED LANDFILL	NORTHEAST OF 156TH AVE. S.E. AND I-90, NORTH END O		SWF/LF
KING COUNTY	S105806017	ENUMCLAW	SOUTHEAST OF 284TH AVE. S.E. AND S.E. 448TH STREET		SWF/LF
KING COUNTY	S105806018	FACTORIA PIT (SUNSET RAVINE PARK)	NORTHWEST OF 135TH AVE S.E. AND S.E. 40TH STREET		SWF/LF
KING COUNTY	S105806020	H.H. OLESON	NORTHEAST OF N.E. 172ND ST. AND 152 PL. N.E.		SWF/LF
KING COUNTY	S105806021	HOUGHTON	NORTHWEST OF N.E. 60TH ST. AND 120TH AVE. N.E.		SWF/LF
KING COUNTY	S105806022	KENT ABANDONED LANDFILL (MILL CREEK CANYON PARK)	NORTHEAST OF MAPLE ST. AND TILDEN AVEN		SWF/LF
KING COUNTY	S105806024	NORTH BEND	WEST OF THE MIDDLE FORK ROAD, ABOUT 1 MILE NORTH O		SWF/LF
KING COUNTY	S105806025	PACIFIC CITY	SOUTH OF 3RD AVE. S.E. AT THE WHITE RIVER		SWF/LF
KING COUNTY	S105806026	PUYALLUP/KIT CORNER	NORTHEAST OF S. 360TH ST. AND INTERSTATE-5		SWF/LF
KING COUNTY	S105806027	REDONDO PIT	SOUTHWEST OF S. DASH POINT ROAD AND PACIFIC HIGHWA		SWF/LF
KING COUNTY	S105806028	RENTON HIGHLANDS	SOUTHWEST OF N.E. 3RD ST. AND JEFFERSOI AVENUE N.E		SWF/LF
KING COUNTY	S105806030	SKYKOMISH	NORTH OF THE STEPHEN'S PASS HIGHWAY JL EAST OF S		SWF/LF

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KING COUNTY	S105806031	SUNSET PARK	SOUTHWEST OF 18TH AVE. S. AND S. 136TH STREET		SWF/LF
KING COUNTY	S105806032	TUKWILA	SOUTH OF 62ND AVE. S. AND S. 151ST STREET		SWF/LF
KING COUNTY	S105806033	VASHON ISLAND	WEST OF 130TH AVE. S.W. ACROSS FROM THE PRESENT LA		SWF/LF
KING COUNTY	S105806036	HOUGHTON ABANDONED LANDFILL	EAST OF I-405, IMMEDIATELY NORTH OF BRIDAL TRAILS		SWF/LF
KING COUNTY	S105806019	FALL CITY ABANDONED LANDFILL	OLD DUMP RD. AT FIRST ROAD BEND		SWF/LF
MERCER ISLAND	U000804413	WEST REPUBLICAN PLACE, INC	323 WEST REPUBLICAN	98119	LUST, UST
SEATTLE	S105454253	BLACKSTOCK LUMBER	545, 601 / 631 ELLIOTT AVE. W.	98119	WA ICR
SEATTLE	S105454254	BLACKSTOCK LUMBER (TWO REPORTS)	545, 601 / 631 ELLIOTT AVE. W.	98119	WA ICR
SEATTLE	S103508913	S & M ENTERPRISES	104TH AVE. SE	98109	WA ICR
SEATTLE	S103505014	NIX AUTO WRECKING	11TH AVE. NW AND LEARY WAY NW	98107	WA ICR
SEATTLE	1000455969	MAGNOLIA BRIDGE DRUM	15TH AVE W UNDER BRIDGE W SIDE	98119	RCRIS-SQG, FINDS
SEATTLE	S103510237	TSUBOTO INDUSTRIAL PROPERTY	15TH AVE. W./GARFIELD ST. OVERPASS	98119	WA ICR
SEATTLE	S105805988	INTERBAY	15TH AVENUE WEST SOUTH OF WEST DRAVU STREET, NORT		SWF/LF
SEATTLE	S103633926	RUDD CO INC	1608 TO 1630 15TH AVE W	98119	HAZNET
SEATTLE	1001490674	FRIEDMAN & BRUYA INC ENVIR CHEMISTS	3008 B 16TH AVE W	98119	RCRIS-SQG, FINDS
SEATTLE	S105613391	TIME OIL SEATTLE	2750 2737 2805 W COMMODORE WAY	98199	CSCSL
SEATTLE	S103508411	NORTH POINT - LAKE UNION	N. 34TH ST. AND MERIDIAN N.	98103	WA ICR
SEATTLE	S103512940	CALIFORNIA AVE. LAW APTS. PROP.	3703, 3705, 3707 CALIFORNIA AVE.		WA ICR
SEATTLE	1001491234	WA DOT AURORA BRIDGE 99 560	SR 99 MP 34.17 TO 34.73	98103	RCRIS-SQG, FINDS
SEATTLE	S104223669	SR 99 & FIRST AVE. BRIDGE SPILL/WSDOT	SR 99 / FIRST AVE. BRIDGE		WA ICR
SEATTLE	1000993205	KING CNTY TRANSIT SEATTLE WTRFT	ALASKAN WAY BTWN BROAD ST & YE	98121	RCRIS-SQG, FINDS
SEATTLE	1001600666	SEATTLE PORT TERM 66	2201 ALASKAN WAY TERM 66 PIERC	98121	RCRIS-SQG, FINDS
SEATTLE	1001491450	US DEA	1555 ALASKAN WAY PIER 36	98119	RCRIS-SQG, FINDS
SEATTLE	S103850789	KERN & GREENE PROPERTY	822 AND 824 NW 46TH ST.	98107	WA ICR
SEATTLE	1004793178	WA UW SALMON BAY	4025 13TH AVE W BLDGS 6 & 9	98119	RCRIS-SQG, FINDS
SEATTLE	S105686903	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105686919	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105686963	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105686969	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105686970	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105686978	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687036	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687052	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687053	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SEATTLE	S105687054	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687055	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687302	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687322	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687333	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687341	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687364	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687405	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687435	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S105687467	CAR WASH ENTERPRISES/CIRCLE K STORE 5516 BP OIL	1800 15TH AVE. W.	98119	WA ICR
SEATTLE	S104484977	MOBIL CANAL BULK PLANT	4401 11TH AVE. NW	98107	WA ICR
SEATTLE	S105454433	SIMPSON HOUSING SITE	BETWEEN W. HARRISON / W. THOMAS, E. OF 2ND AVE.	98119	WA ICR
SEATTLE	S103508557	PACIFIC HEIGHTS LTD. PARTNERSHIP BLDG.	BLOCK D - LOT 8, 2927 FIRST AVENUE	98109	WA ICR
SEATTLE	S105805999	SIXTH SOUTH AND SOUTH OF SPOKANE	2900 BLOCK OF SIXTH AVENUE SOUTH, SPOKANE STREET A		SWF/LF
SEATTLE	S105430786	UNOCAL SEATTLE MARKETING TERM	BROAD ST / WESTERN AV & BAY ST	98121	CSCSL
SEATTLE	92263691	BRYANT AREA	BRYANT AREA		ERNS
SEATTLE	99645521	2300 WEST COMMODORE WAY IN THE SLIP AREA	2300 WEST COMMODORE WAY IN THE SLIP AF	98199	ERNS
SEATTLE	S103511549	BNRR (FORMER GLACIER PARK PROPERTY)	SW CORNER OCCIDENTAL AVE./LANDER ST.		WA ICR
SEATTLE	S105454208	CHEVRON #9 7032	NE CORNER DENNY WAY / 5TH AVE.		WA ICR
SEATTLE	S103507471	FIRST FREE METHODIST EXPANSION	W. CREMONA AND W. 3RD AVE.	98119	WA ICR
SEATTLE	S103510272	US ARMY - FORT LAWTON	DISCOVERY PARK	98199	WA ICR
SEATTLE	S103511515	DISCOVERY PARK/SEATTLE PARKS DEPARTMENT	DISCOVERY PARK	98199	WA ICR
SEATTLE	S105454348	FRED HUTCHINSON CANCER CENTER	EASTLAKE AVE. E. / FAIRVIEW AVE. N.	98109	WA ICR
SEATTLE	S105454349	FRED HUTCHINSON CANCER CENTER	EASTLAKE AVE. E. / FAIRVIEW AVE. N.	98109	WA ICR
SEATTLE	S103505765	BURLINGTON NORTHERN RAILROAD - BALMER YAR	1809 N. EMERSON	98199	WA ICR
SEATTLE	S103504900	KOMO BLOCK CONSTRUCTION	FIFTH AVE. AND DENNY WAY	98109	WA ICR
SEATTLE	S103850816	DOUGLAS HOTEL (FORMER)	FIRST AND BELL	98121	WA ICR
SEATTLE	S104485163	BELLTOWN COURT CONDOMINIUM	2400 FIRST AVE.	98121	WA ICR
SEATTLE	S104485593	LEWISTON APARTMENTS (TWO REPORTS)	2201 FIRST AVE.	98121	WA ICR
SEATTLE	S104485306	FISHER PLAZA PHASE I	100 FOURTH AVE. N.	98109	WA ICR
SEATTLE	1001491280	BARGE NESTUCCA	2001 GARFIELD BERTH E PIER 90	98119	RCRIS-SQG, FINDS
SEATTLE	1004794653	AMERICAN SEAFOODS CO	2001 W GARFIELD PIER 91 BLDG 3	98119	RCRIS-SQG, FINDS
SEATTLE	1004794919	PACIFIC TERMINAL SERVICES INC BLDG 24	2001 W GARFIELD BLDG 24	98119	RCRIS-SQG, FINDS
SEATTLE	1004794918	SEATTLE CITY MAGNOLIA BRIDGE	2001 W GARFIELD ST MAGNOLIA BR	98199	RCRIS-SQG, FINDS
SEATTLE	S103509779	TERMINAL 91	W. GARFIELD STREET	98119	WA ICR

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SEATTLE	1001969586	QUALEX AT SEATTLE CENTER	305 HARRISON CENTER HOUSE SEAT	98109	RCRIS-SQG, FINDS
SEATTLE	1004793669	FUN FOREST RIDE SHOP	305 HARRISON ST RIDE SHOP	98109	RCRIS-SQG, FINDS
SEATTLE	8858199	KINGSGATE AREA	KINGSGATE AREA		ERNS
SEATTLE	S103507744	HATCH AND KIRK INC.	51111 LEARY AVE. NW	98107	WA ICR
SEATTLE	S105124721	TIME OIL/BILL'S TIRES	4910 NW LEARY WAY	98107	SPILLS, WA ICR
SEATTLE	90191052	MADRONA AREA CORNER OF 34TH AND PIKE	MADRONA AREA CORNER OF 34TH AND PIKE		ERNS
SEATTLE	S105767065	FORT LAWTON	MAGNOLIA AREA	98199	WA ICR
SEATTLE	98468317	500 SOUTH MYRTLE STREET MOORING AREA	500 SOUTH MYRTLE STREET MOORING AREA		ERNS
SEATTLE	1001082025	NORTHLAND FISHERIES AT FISHERM	1900 W NICKERSON STE 207	98119	RCRIS-SQG, FINDS
SEATTLE	S105805989	GENESEE LANDFILL	NORTH OF SOUTH ALASKA STREET TO LAKE WASHINGTON.		SWF/LF
SEATTLE	S105805990	MONTLAKE DISPOSAL SITE	EAST OF MONTLAKE BOULEVARD, SOUTH OF NORTHEAST 45T		SWF/LF
SEATTLE	S105805991	NORTH AURORA DISPOSAL SITE	EAST OF STONE AVENUE NORTH, SOUTH OF NORTH 125TH S		SWF/LF
SEATTLE	S105805992	WEST SEATTLE - HARBOR AVENUE	EAST OF HARBOR AVENUE SOUTHWEST, SOUTH OF SOUTHWES		SWF/LF
SEATTLE	S105805993	SOUTH PARK	EAST OF FIRST AVENUE - SOUTH, SOUTH OF KENYON STREE		SWF/LF
SEATTLE	S105805995	JUDKINS STREET DISPOSAL SITE	WEST OF 22ND AVENUE SOUTH, SOUTH OF SOUTH CHARLES		SWF/LF
SEATTLE	S105805997	RAINIER LANDFILL	EAST OF RAINIER AVENUE SOUTH, SOUTH OF SOUTH OREGO		SWF/LF
SEATTLE	S105805998	SICKS STADIUM SITE	EAST OF RAINIER AVENUE SOUTH, SOUTH OF SOUTH BAY S		SWF/LF
SEATTLE	S103503262	IMAX THEATER/GALLERY SPACE ADDITION	PACIFIC SCIENCE CENTER	98109	WA ICR
SEATTLE	S104487198	PACIFIC NORTHERN OIL/FOAM TANK & MACHINE BUILDING	PIER 91	98119	WA ICR
SEATTLE	S103508620	PIER 66	PORT OF SEATTLE	98121	WA ICR
SEATTLE	S103509778	TERMINAL 91	PORT OF SEATTLE	98199	WA ICR
SEATTLE	1001491315	SEATTLE CITY QUEEN ANNE AVE NORTH BR	QUEEN ANNE DR BTWN KNOB HILL &	98109	RCRIS-SQG, FINDS
SEATTLE	S103507823	INTERMARK - QUEEN ANNE PROPERTY	ROY ST. AND TAYLOR ST.	98109	WA ICR
SEATTLE	94405701	SEATTLE HBR AREA OF PIER 90-91	SEATTLE HBR AREA OF PIER 90-91		ERNS
SEATTLE	S103512773	PACIFIC SCIENCE CENTER IMAX PROJECT	SEATTLE CENTER	98109	WA ICR
SEATTLE	S104959652	PACIFIC NORTHWEST BALLET (SEATTLE CENTER)	SEATTLE CENTER	98109	WA ICR
SEATTLE	1000199670	SHILSHOLE 15TH AVE	SHILSHOLE & 15TH AVE NW	98119	RCRIS-SQG, FINDS
SEATTLE	S105805994	GREEN LAKE LANDFILL SITE	NORTH, SOUTH, EAST, WEST PERIMETER OF GREEN LAKE.		SWF/LF
SEATTLE	S104487173	OLDS OLYMPIC STONEWAY	3410 STONEWAY	98103	WA ICR
SEATTLE	S103509033	SEATTLE CITY LIGHT	9809 STOVE AVE. N.	98103	WA ICR
SEATTLE	S103506430	CHEVRON	707 TAYLOR WAY	98109	WA ICR
SEATTLE	S105735400	US ARMY USAR AMSA 79 FORT LAWTON	4570 TEXAS WAY W	98199	CSCSL
SEATTLE	S105726805	GENTIC SYSTEMS CORP SDP SEATTLE	1000 THOMAS ST	98109	HAZNET
SEATTLE	1000473993	SEATTLE MACHINE WORKS INC	1510 W THURMAN N SIDE BLDG	98119	RCRIS-SQG, FINDS
SEATTLE	1001806419	PORT OF SEATTLE FISHERMAN'S TERMINAL	1735 THURMAN ST.	98119	WA ICR
SEATTLE	S105805996	WASHINGTON PARK LANDFILL SITE	UNIVERSITY OF WASHINGTON ARBORETUM S OF UNION		SWF/LF

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SEATTLE	S104490842	COTTAGE PROPERTIES	VINE ST	98121	CSCSL
SEATTLE	93341546	WASHINGTON SHIP CANNEL SALMON BAY AREA NEAR THE	WASHINGTON SHIP CANNEL SALMON BAY ARI NEAR THE		ERNS
SEATTLE	S103503264	UNOCAL #535	3600 WESTLAKE N.	98109	WA ICR
SEATTLE	8712977	WOODED AREA W OF RIVERTON HOSP. NEAR	WOODED AREA W OF RIVERTON HOSP. NEAR		ERNS

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.
D007	CHROMIUM
D008	LEAD
D035	METHYL ETHYL KETONE
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
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.
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.
F006	WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON

EPA Waste Codes Addendum

Code	Description
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STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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: 07/22/03

Date Made Active at EDR: 08/26/03

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/04/03

Elapsed ASTM days: 22

Date of Last EDR Contact: 08/04/03

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 6

Telephone: 214-655-6659

EPA Region 8

Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 06/10/03

Date Made Active at EDR: 08/26/03

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/04/03

Elapsed ASTM days: 22

Date of Last EDR Contact: 08/04/03

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: 06/16/03

Date Made Active at EDR: 08/01/03

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/23/03

Elapsed ASTM days: 39

Date of Last EDR Contact: 06/23/03

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: 06/11/03
Date Made Active at EDR: 08/01/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/23/03
Elapsed ASTM days: 39
Date of Last EDR Contact: 06/23/03

CORRACTS: Corrective Action Report

Source: EPA
Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/13/03
Date Made Active at EDR: 09/18/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/22/03
Elapsed ASTM days: 27
Date of Last EDR Contact: 09/08/03

RCRIS: Resource Conservation and Recovery Information System

Source: EPA
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). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 07/11/03
Date Made Active at EDR: 08/18/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/30/03
Elapsed ASTM days: 19
Date of Last EDR Contact: 06/26/03

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard
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: 12/31/02
Date Made Active at EDR: 02/03/03
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/27/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 07/28/03

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: 06/16/03
Date of Next Scheduled EDR Contact: 09/15/03

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/09/03
Database Release Frequency: Annually

Date of Last EDR Contact: 07/07/03
Date of Next Scheduled EDR Contact: 10/06/03

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: 07/22/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/04/03
Date of Next Scheduled EDR Contact: 11/03/03

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: 07/25/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/02/03
Date of Next Scheduled EDR Contact: 10/06/03

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: 03/31/03
Database Release Frequency: Annually

Date of Last EDR Contact: 07/23/03
Date of Next Scheduled EDR Contact: 10/20/03

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: 04/23/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/02/03
Date of Next Scheduled EDR Contact: 10/06/03

MINES: Mines Master Index File

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

Date of Government Version: 06/07/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/30/03
Date of Next Scheduled EDR Contact: 09/29/03

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: 08/25/03
Date of Next Scheduled EDR Contact: 11/24/03

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: 06/30/03
Database Release Frequency: Annually

Date of Last EDR Contact: 08/13/03
Date of Next Scheduled EDR Contact: 11/10/03

DOD: Department of Defense Sites

Source: USGS
Telephone: 703-648-5920

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 04/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/15/03
Date of Next Scheduled EDR Contact: 11/10/03

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/15/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/15/03
Date of Next Scheduled EDR Contact: 12/15/03

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: 09/08/03
Date of Next Scheduled EDR Contact: 12/08/03

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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 06/27/03
Date of Next Scheduled EDR Contact: 09/22/03

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/02/03

Date of Next Scheduled EDR Contact: 12/08/03

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: 04/15/03

Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/23/03

Date of Next Scheduled EDR Contact: 09/22/03

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: 07/24/03

Date of Next Scheduled EDR Contact: 10/20/03

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: 04/15/03

Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/23/03

Date of Next Scheduled EDR Contact: 09/22/03

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: 07/25/03

Date Made Active at EDR: 09/04/03

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/19/03

Elapsed ASTM days: 16

Date of Last EDR Contact: 08/19/03

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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/25/03
Date Made Active at EDR: 04/08/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/10/03
Elapsed ASTM days: 29
Date of Last EDR Contact: 09/10/03

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: 07/07/03

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: 07/07/03
Date Made Active at EDR: 07/24/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 07/11/03
Elapsed ASTM days: 13
Date of Last EDR Contact: 09/15/03

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.

Date of Government Version: 07/11/03
Date Made Active at EDR: 08/06/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 07/23/03
Elapsed ASTM days: 14
Date of Last EDR Contact: 07/23/03

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: 08/19/03
Date Made Active at EDR: 09/04/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 08/19/03
Elapsed ASTM days: 16
Date of Last EDR Contact: 08/18/03

INDIAN UST: Underground Storage Tanks on Indian Land

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

Date of Government Version: 06/02/03
Date Made Active at EDR: 06/17/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 06/02/03
Elapsed ASTM days: 15
Date of Last EDR Contact: 08/25/03

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/25/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/19/03
Date of Next Scheduled EDR Contact: 11/17/03

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: 12/01/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/18/03
Date of Next Scheduled EDR Contact: 11/17/03

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: 07/14/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/07/03
Date of Next Scheduled EDR Contact: 10/06/03

EMI: Washington Emissions Data System

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

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 07/24/03
Date of Next Scheduled EDR Contact: 10/20/03

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/09/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/24/03
Date of Next Scheduled EDR Contact: 10/20/03

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.

Date of Government Version: 09/01/02
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/19/03
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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BROWNFIELDS DATABASES

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: 08/19/03
Database Release Frequency: Varies

Date of Last EDR Contact: 08/18/03
Date of Next Scheduled EDR Contact: 11/17/03

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Database Release Frequency: Semi-Annually

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

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Daycare Center Listing

Source: Department of Social & Health Services
Telephone: 253-383-1735

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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Appendix C



Date: November 17, 2004
To Seattle Department of Transportation
:
Seattle, Washington

IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL/ENVIRONMENTAL REPORT

CONSULTING SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

Consultants prepare reports to meet the specific needs of specific individuals. A report prepared for a civil engineer may not be adequate for a construction contractor or even another civil engineer. Unless indicated otherwise, your consultant prepared your report expressly for you and expressly for the purposes you indicated. No one other than you should apply this report for its intended purpose without first conferring with the consultant. No party should apply this report for any purpose other than that originally contemplated without first conferring with the consultant.

THE CONSULTANT'S REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

A geotechnical/environmental report is based on a subsurface exploration plan designed to consider a unique set of project-specific factors. Depending on the project, these may include: the general nature of the structure and property involved; its size and configuration; its historical use and practice; the location of the structure on the site and its orientation; other improvements such as access roads, parking lots, and underground utilities; and the additional risk created by scope-of-service limitations imposed by the client. To help avoid costly problems, ask the consultant to evaluate how any factors that change subsequent to the date of the report may affect the recommendations. Unless your consultant indicates otherwise, your report should not be used: (1) when the nature of the proposed project is changed (for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one, or chemicals are discovered on or near the site); (2) when the size, elevation, or configuration of the proposed project is altered; (3) when the location or orientation of the proposed project is modified; (4) when there is a change of ownership; or (5) for application to an adjacent site. Consultants cannot accept responsibility for problems that may occur if they are not consulted after factors which were considered in the development of the report have changed.

SUBSURFACE CONDITIONS CAN CHANGE.

Subsurface conditions may be affected as a result of natural processes or human activity. Because a geotechnical/environmental report is based on conditions that existed at the time of subsurface exploration, construction decisions should not be based on a report whose adequacy may have been affected by time. Ask the consultant to advise if additional tests are desirable before construction starts; for example, groundwater conditions commonly vary seasonally.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical/environmental report. The consultant should be kept apprised of any such events, and should be consulted to determine if additional tests are necessary.

MOST RECOMMENDATIONS ARE PROFESSIONAL JUDGMENTS.

Site exploration and testing identifies actual surface and subsurface conditions only at those points where samples are taken. The data were extrapolated by your consultant, who then applied judgment to render an opinion about overall subsurface conditions. The actual interface between materials may be far more gradual or abrupt than your report indicates. Actual conditions in areas not sampled may differ from those predicted in your report. While nothing can be done to prevent such situations, you and your consultant can work together to help reduce their impacts. Retaining your consultant to observe subsurface construction operations can be particularly beneficial in this respect.

A REPORT'S CONCLUSIONS ARE PRELIMINARY.

The conclusions contained in your consultant's report are preliminary because they must be based on the assumption that conditions revealed through selective exploratory sampling are indicative of actual conditions throughout a site. Actual subsurface conditions can be discerned only during earthwork; therefore, you should retain your consultant to observe actual conditions and to provide conclusions. Only the consultant who prepared the report is fully familiar with the background information needed to determine whether or not the report's recommendations based on those conclusions are valid and whether or not the contractor is abiding by applicable recommendations. The consultant who developed your report cannot assume responsibility or liability for the adequacy of the report's recommendations if another party is retained to observe construction.

THE CONSULTANT'S REPORT IS SUBJECT TO MISINTERPRETATION.

Costly problems can occur when other design professionals develop their plans based on misinterpretation of a geotechnical/environmental report. To help avoid these problems, the consultant should be retained to work with other project design professionals to explain relevant geotechnical, geological, hydrogeological, and environmental findings, and to review the adequacy of their plans and specifications relative to these issues.

BORING LOGS AND/OR MONITORING WELL DATA SHOULD NOT BE SEPARATED FROM THE REPORT.

Final boring logs developed by the consultant are based upon interpretation of field logs (assembled by site personnel), field test results, and laboratory and/or office evaluation of field samples and data. Only final boring logs and data are customarily included in geotechnical/environmental reports. These final logs should not, under any circumstances, be redrawn for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process.

To reduce the likelihood of boring log or monitoring well misinterpretation, contractors should be given ready access to the complete geotechnical engineering/environmental report prepared or authorized for their use. If access is provided only to the report prepared for you, you should advise contractors of the report's limitations, assuming that a contractor was not one of the specific persons for whom the report was prepared, and that developing construction cost estimates was not one of the specific purposes for which it was prepared. While a contractor may gain important knowledge from a report prepared for another party, the contractor should discuss the report with your consultant and perform the additional or alternative work believed necessary to obtain the data specifically appropriate for construction cost estimating purposes. Some clients hold the mistaken impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because geotechnical/environmental engineering is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in their contracts, reports and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

The preceding paragraphs are based on information provided by the
ASFE/Association of Engineering Firms Practicing in the Geosciences, Silver Spring, Maryland