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Department of Ecology

March 6, 2007

Lisa Pearson, P.E.
Department Of Ecology
Southwest Regional Office
PO Box 47775
Olympia, WA 98504-7775

Dear Ms. Pearson,

Per our phone conversation earlier today, I am forwarding to you a copy of the Phase I Environmental Site Assessment of the Hardel Mutual Plywood waterfront property. In reviewing the Finding of Facts contained in the Draft Agreed Order for Hardel, apparently the Department of Ecology is not in possession of a copy.

Should you have any questions, please don't hesitate to contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "David Wild".

David Wild
Environmental and Safety Manager
Hardel Mutual Plywood Corp

P114801

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Department of Ecology

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
HARDEL MUTUAL PLYWOOD WATERFRONT PROPERTY
1210 N.W. WEST BAY DRIVE
OLYMPIA, WASHINGTON**

Prepared for

Gibbs and Olson, Inc.
2604 12th Court, Suite A
Olympia, WA 98502

July 1999

Prepared by

Tetra Tech EM Inc.
600 University Street, Suite 800
Seattle, WA 98101

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SECTION 1 INTRODUCTION

1.1 PURPOSE

Tetra Tech EM Inc. (Tetra Tech) was requested to perform a Phase I Environmental Site Assessment (ESA) of the Hardel Mutual Plywood Waterfront Property located in Olympia, Thurston County, Washington. This report describes the findings of the investigation regarding potential environmental impairment of the property due to current or historical activities at or near the property.

The purpose of a Phase I ESA is to examine a property for contamination that might have arisen from past or current uses of the subject property, or surrounding property uses. Tetra Tech's investigation was conducted in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Standard Practice E 1527-97 for Environmental Site Assessments (ASTM 1997), and generally accepted industry practices at the time the work was performed.

1.2 INVOLVED PARTIES

Tetra Tech contracted with Mr. Michael Wolfe, a representative of Gibbs & Olson, Inc., to perform a Phase I ESA for the subject property. Gibbs & Olson, Inc., has contracted with Hardel Mutual Plywood, Inc., to provide a variety of planning, engineering, and surveying services.

SECTION 2 SCOPE OF WORK

Tetra Tech's assessment of the HardeI Mutual Plywood Waterfront Property included several specific activities:

- A site walk-through to identify possible hazardous waste dumping or contamination; pathways for contamination to enter soil or ground water, such as leaking underground storage tanks (USTs), above ground storage tanks (ASTs), sumps, or drains; poor housekeeping of hazardous materials; suspected lead-containing paint and asbestos-containing building materials (if applicable); and the possible presence of polychlorinated biphenyls (PCBs);
- A review of historical information, including Sanborn fire insurance maps, plat maps, and city reverse phone directories
- Interviews of site personnel who have knowledge of past hazardous materials usage at the subject site; and
- A review of federal, state, regional, and local agency files concerning contamination reported within the search distances specified in ASTM Standard E 1527-97 (ASTM 1997).

SECTION 3 SITE OVERVIEW

The following sections provide an overview of the Hardel Mutual Plywood Waterfront Property location and adjacent properties.

3.1 LOCATION

The Hardel Mutual Plywood Waterfront Property is located at 1210 N.W. West Bay Drive in Olympia, Washington (Figure 1). The property is located within the southeast quarter of Section 10, Township 18 North, Range 2 West, Willamette Meridian. The property consists of five parcels occupying about 17.8 acres that extend from a railway right-of-way along West Bay Drive eastward into intertidal and subtidal areas of Budd Inlet, an embayment of Puget Sound (Gibbs & Olson 1999a). The portion of the property above mean sea level is approximately 6.7 acres. The subject property is currently in a mixed residential and industrial use area.

3.2 ADJACENT PROPERTIES

Figure 2 presents the site property boundaries and the locations of adjoining facilities. The subject property is bordered to the east by Budd Inlet, and to the west by the railroad right-of-way and West Bay Drive. The adjoining property to the south is Reliable Steel, Inc., a metal fabrication facility. The adjacent property to the north is vacant with the exception of a small boathouse that straddles the northern property boundary of the subject site.

Residential neighborhoods exist to the west of West Bay Drive. The former offices for the subject site also lie across West Bay Drive west of the subject property. These former offices were not evaluated as part of this Phase I ESA.

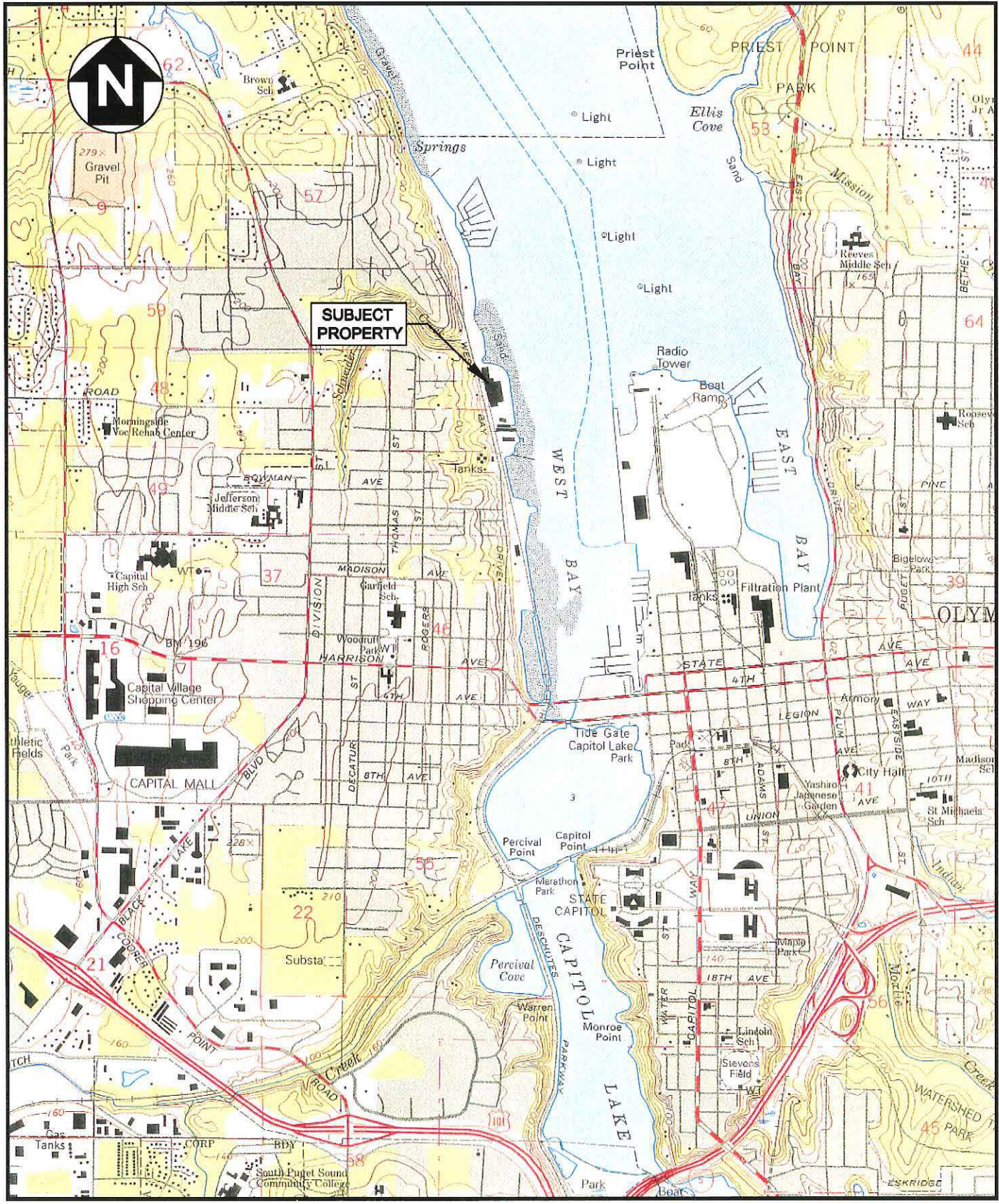


FIGURE 1

**SITE LOCATION MAP
 HARDEL MUTUAL PLYWOOD WATERFRONT PROPERTY
 OLYMPIA, WASHINGTON**

TETRA TECH EM INC.

SOURCE: USGS 7.5 MINUTE TUMWATER, WASHINGTON QUADRANGLE.

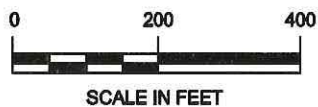
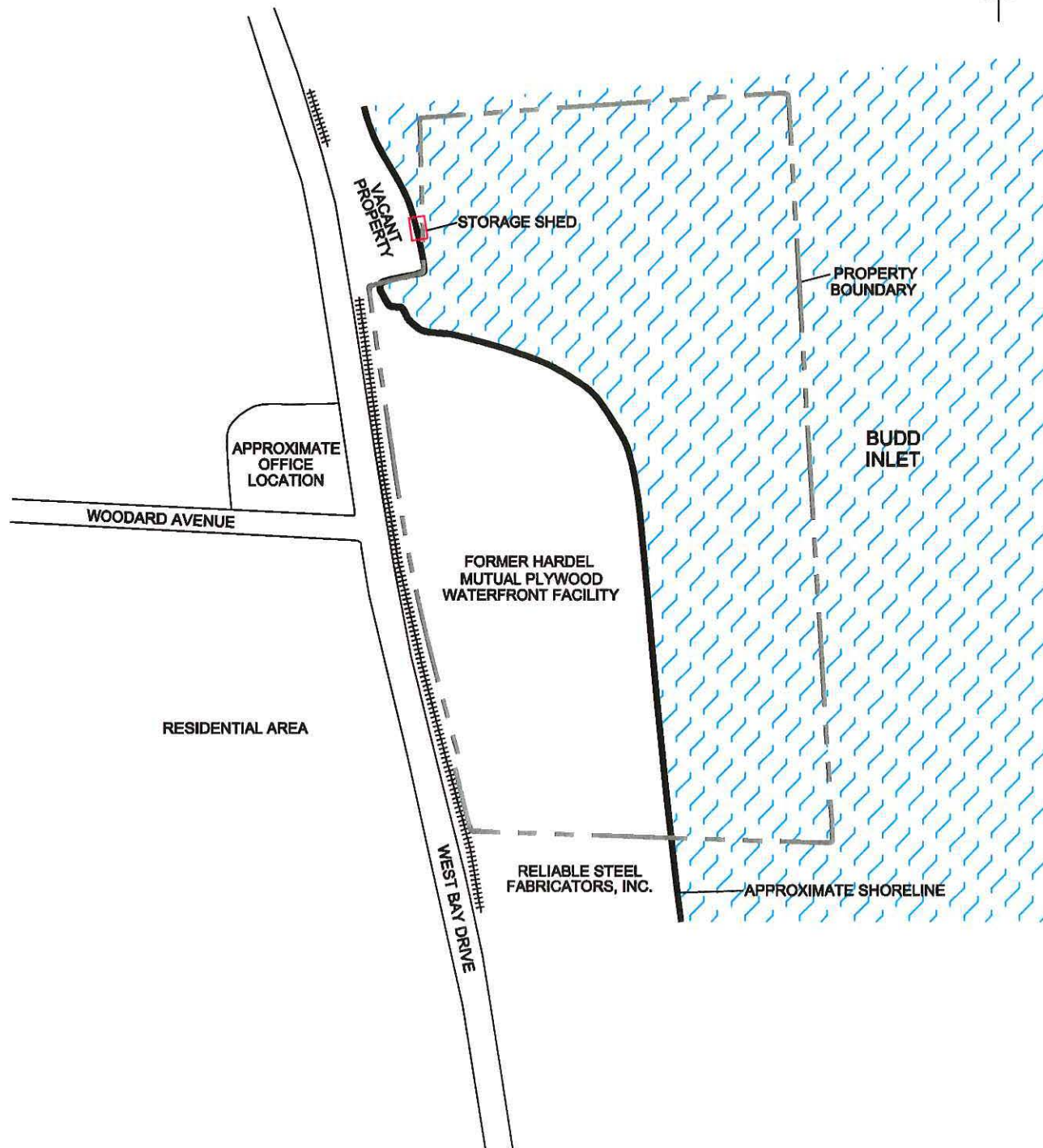

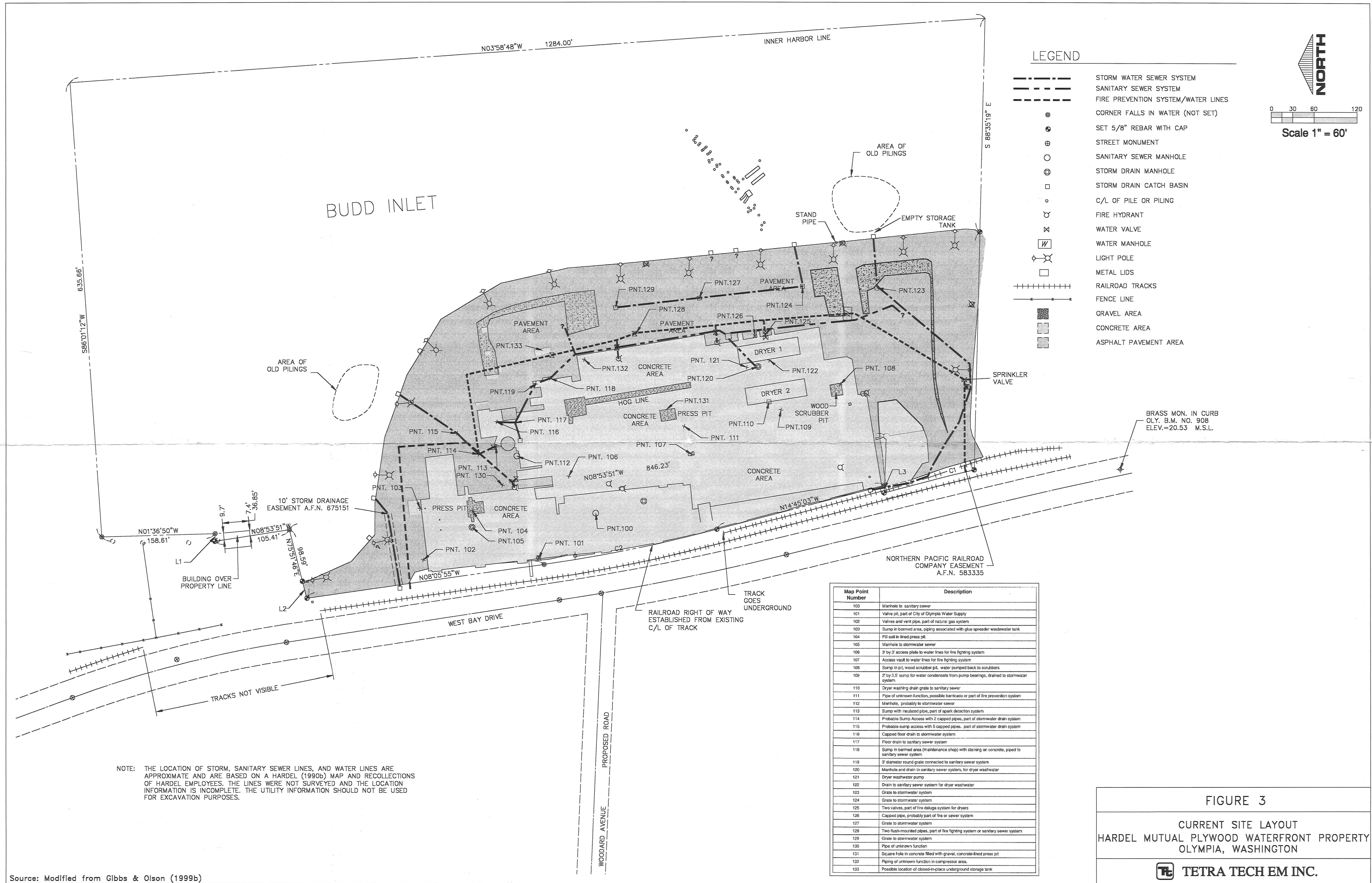


FIGURE 2
PROPERTY BOUNDARIES HARDEL MUTUAL PLYWOOD WATERFRONT PROPERTY OLYMPIA, WASHINGTON
 TETRA TECH EM INC.

3.3 SITE DESCRIPTION

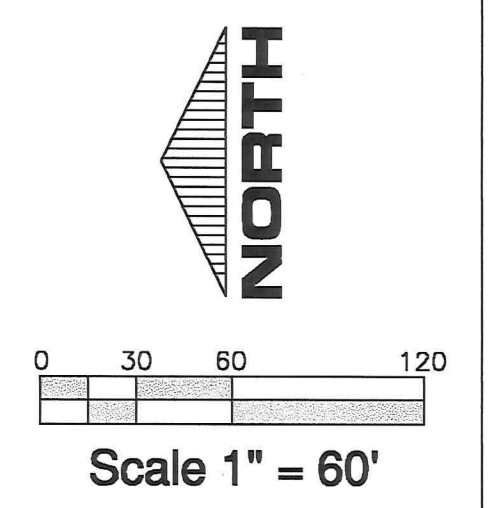
The land portion of the subject property currently consists primarily of a series of concrete building foundations and adjoining asphalt areas (Figure 3). About two-thirds of the 17.8 acre subject property consists of intertidal and subtidal areas east of the former plywood facility. An old abandoned pier and pilings is located in Budd Inlet in the eastern part of the site.

The Hardel Mutual Plywood waterfront facility ceased operations following a fire on September 1, 1996. The layout of the facility before the fire during the 1990's is presented in Figure 4.



LEGEND

- STORM WATER SEWER SYSTEM
- SANITARY SEWER SYSTEM
- FIRE PREVENTION SYSTEM/WATER LINES
- ⊙ CORNER FALLS IN WATER (NOT SET)
- ⊙ SET 5/8" REBAR WITH CAP
- ⊙ STREET MONUMENT
- ⊙ SANITARY SEWER MANHOLE
- ⊙ STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN
- C/L OF PILE OR PILING
- ⊗ FIRE HYDRANT
- ⊗ WATER VALVE
- ⊗ WATER MANHOLE
- ⊗ LIGHT POLE
- ⊗ METAL LIDS
- ++++ RAILROAD TRACKS
- FENCE LINE
- GRAVEL AREA
- CONCRETE AREA
- ASPHALT PAVEMENT AREA

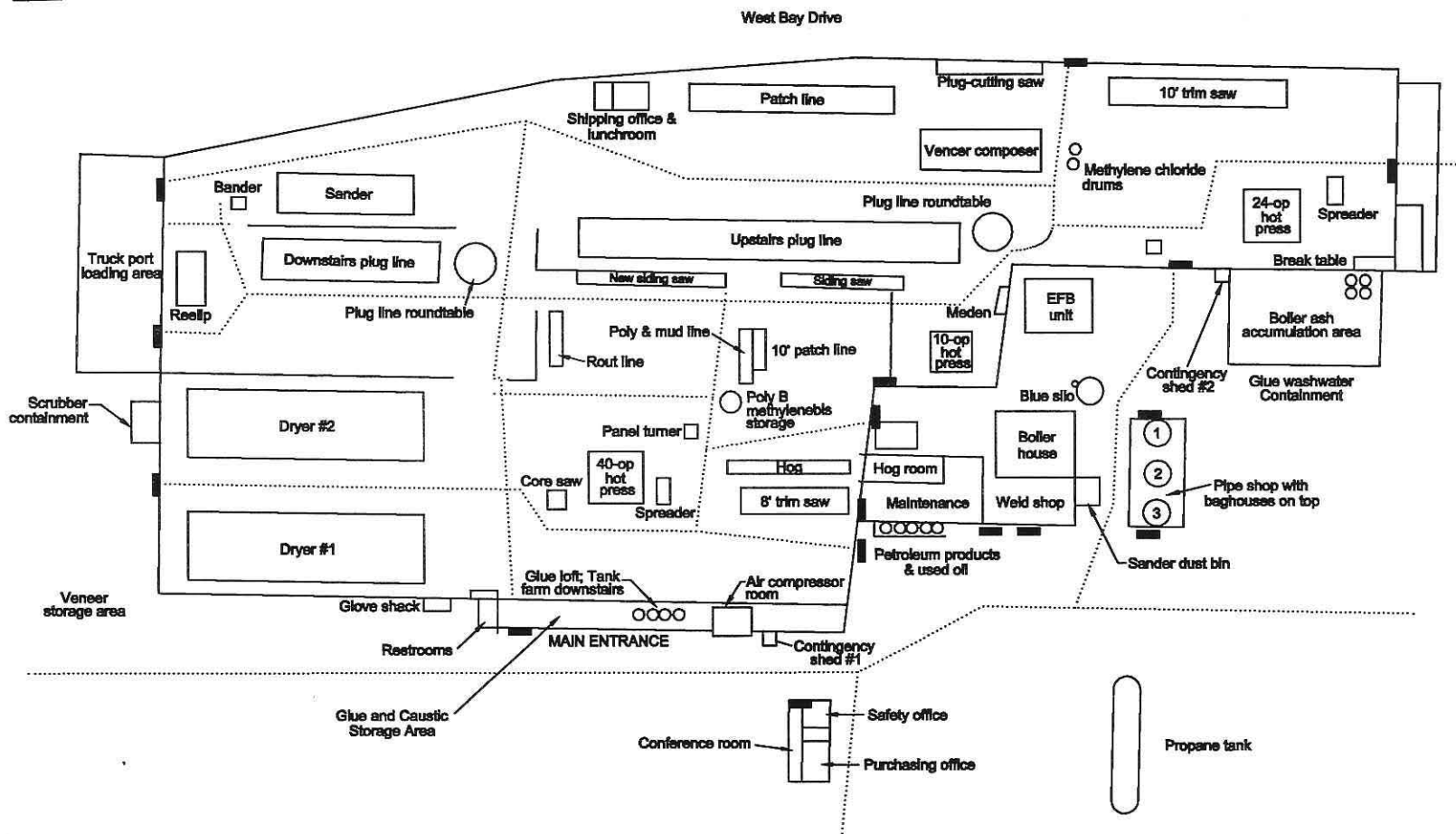


Map Point Number	Description
100	Manhole to sanitary sewer
101	Valve pit, part of City of Olympia Water Supply
102	Valves and vent pipe, part of natural gas system
103	Sump in bermed area, piping associated with glue spreader wastewater tank
104	Fill soil in lined press pit
105	Manhole to stormwater sewer
106	3' by 3' access plate to water lines for fire fighting system
107	Access vault to water lines for fire fighting system
108	Sump in pit, wood scrubber pit, water pumped back to scrubbers
109	2' by 2.5' sump for water condensate from pump bearings, drained to stormwater system
110	Dryer washing drain grate to sanitary sewer
111	Pipe of unknown function, possible barricade or part of fire prevention system
112	Manhole, probably to stormwater sewer
113	Sump with insulated pipes, part of spark detection system
114	Probable Sump Access with 2 capped pipes, part of stormwater drain system
115	Probable sump access with 5 capped pipes, part of stormwater drain system
116	Capped floor drain to stormwater system
117	Floor drain to sanitary sewer system
118	Sump in bermed area (maintenance shop) with staining on concrete, piped to sanitary sewer system
119	3' diameter round grate connected to sanitary sewer system
120	Manhole and drain to sanitary sewer system, for dryer washwater
121	Dryer washwater pump
122	Drain to sanitary sewer system for dryer washwater
123	Grate to stormwater system
124	Grate to stormwater system
125	Two valves, part of fire deluge system for dryers
126	Capped pipe, probably part of fire or sewer system
127	Grate to stormwater system
128	Two flush-mounted pipes, part of fire fighting system or sanitary sewer system
129	Grate to stormwater system
130	Pipe of unknown function
131	Square hole in concrete filled with gravel, concrete-lined press pit
132	Piping of unknown function in compressor area
133	Possible location of closed-in-place underground storage tank



NOTE: THE LOCATION OF STORM, SANITARY SEWER LINES, AND WATER LINES ARE APPROXIMATE AND ARE BASED ON A HARDEL (1990b) MAP AND RECOLLECTIONS OF HARDEL EMPLOYEES. THE LINES WERE NOT SURVEYED AND THE LOCATION INFORMATION IS INCOMPLETE. THE UTILITY INFORMATION SHOULD NOT BE USED FOR EXCAVATION PURPOSES.

FIGURE 3
CURRENT SITE LAYOUT
HARDEL MUTUAL PLYWOOD WATERFRONT PROPERTY
OLYMPIA, WASHINGTON
TETRA TECH EM INC.

Source: Modified from Gibbs & Olson (1999b)




LEGEND

-  DOORS AND EXITS
-  WALKWAYS AND AISLEWAYS

APPROXIMATE SCALE IN FEET
1"=60'

FIGURE 4

OPERATIONAL LAYOUT, 1990's
HARDEL MUTUAL PLYWOOD WATERFRONT PROPERTY
OLYMPIA, WASHINGTON

 TETRA TECH EM INC.

Source: Modified from Boateng & Associates (1996)

SECTION 4

SITE HISTORY AND OPERATIONS

The following sections provide an overview of the findings from the site background review and research conducted for the Hardel Mutual Plywood Corporation waterfront property.

4.1 RESULTS OF PERSONNEL INTERVIEWS

An overview of the personnel interviews conducted pursuant to this Phase I ESA is provided in the following sections.

4.1.1 May 18, 1999 Meeting at Waterfront Property

Kyle Heaton and Emanuel Piliarus of Hardel Mutual Plywood, Michael Wolfe of Gibbs & Olson, Inc. and Tetra Tech representatives Jim Wright and Ben Farrell met at the subject property on May 18, 1999 to inspect the property and examine the primary site features.

Mr. Piliarus, Assistant Plant Manager at the Hardel Mutual Plywood Corporation waterfront facility, described the overall plant operation during the time period from the 1980's to the 1996 fire. Green veneer was brought onsite either by rail or by boat. The veneer was stacked along the southern and eastern portions of the site. The veneer was then dried, glued, and pressed. Following gluing, the plywood was cut and irregularities in the wood were patched. The plywood was then stored and shipped offsite. Scrap wood was burned in the boiler that was used to generate heat for drying the veneer. Wash water from gluing operations was reportedly recycled by incorporating the wash water into the glue. According to Mr. Piliarus, baghouse fines from the particulate emissions control system were burnt in the boiler, and ash from the scrubbers and boilers was recycled through incorporation into the glues.

Hardel Mutual Plywood personnel stated that no underground storage tanks (USTs) existed at the site to their knowledge, and that no PCB transformers were present at the site during the 1996 fire. According to Mr. Piliarus, all PCB transformers were phased out of plant operations before the 1996 fire.

4.1.2 June 7, 1999 Chehalis Facility Meeting

Ben Farrell also met with Ralph Tiffany, Plant Maintenance Superintendent, at the Hardel Mutual Plywood Corporation Chehalis facility on June 7, 1999 to obtain further details regarding the Olympia plant operations and site features. Mr. Tiffany worked at the waterfront facility from the mid-1980's to after the 1996 fire. Plans for the site were not available during the meeting. Several site features (such as piping and sumps), the function of which were not readily identifiable in field, were noted during the May 18, 1999 site visit. Using a circa-1988 photograph of the Hardel Plywood facility and a map of surveyed site features (Gibbs and Olson 1999b), most of these features were discussed and identified. The fire system, stormwater system, and sanitary sewer system were also discussed and approximately located. A map illustrating the approximate location of existing site figures is included as Figure 3. The location of a UST identified in Ecology's database during the site regulatory records research (see Appendix A and Section 6.3.2) was not identified with certainty. Mr. Tiffany stated that he thought it might be located east of the former welding shop.

Mr. Tiffany stated that no wood treating activities occurred on the site and that pentachlorophenol was not used at the property to his knowledge. He stated that he did not know of any historical spills at the site and that the storm drains were routinely blocked when shipments of caustic were received.

Mr. Tiffany also stated that following the September 1996 fire, water and wastes that had accumulated in low areas of the site, such as the press pits, were pumped into tanks and shipped offsite. He also stated that the press pits and hog line were lined with concrete and that these low areas were backfilled with gravel following the fire for safety reasons.

4.1.3 City of Olympia Fire Marshall

The City of Olympia Fire Marshall, George Ziesemer, was contacted on June 4, 1999, regarding the subject property. He stated that the Fire Marshall's office had no available records regarding the September 1996 fire at the Hardel Mutual Plywood waterfront property, and stated that Ecology or the facility would probably maintain such records. He also noted that the Fire Marshal's office has only stored UST-related records since 1996.

4.2 RESULTS OF REVERSE DIRECTORIES AND SANDBORN FIRE INSURANCE MAP REVIEWS

Research of reverse directories and Sandborn fire insurance maps for the subject property was conducted to document available information regarding past land uses at the site.

4.2.1 Reverse Directory Review

Polk reverse phone directories for the period 1930 through 1998 were reviewed at the City of Olympia Public Library. Listings for the subject and surrounding properties are summarized below:

Directory Year	Address on West Bay Drive
1995	1117 Not verified 1205 Seven Gables Restaurant 1210 Hardel Mutual Plywood 1218 Reliable Steel Fabricators 1325 Vacant
1990	1205 Seven Gables Restaurant 1210 Hardel Mutual Plywood 1218 Reliable Steel Fabricators 1325 CM3 Associates Product Marketing 1515 Hardel Mutual Plywood (office)
1985	205 Seven Gables Restaurant 1210 Hardel Mutual Plywood 1218 Reliable Steel Fabricators 1325 Residence
1980	1205 Seven Gables Restaurant 1210 Hardel Mutual Plywood 1218 Reliable Steel Fabricators 1325 Residence

Directory Year	Address on West Bay Drive
1975	1205 Seven Gables Alcoholics Rehabilitation 1210 Hardel Mutual Plywood 1218 Reliable Steel Fabricators 1325 Vacant
1970	1205 Seven Gables Alcoholics Rehabilitation 1210 Hardel Mutual Plywood Olympia Towing West Side Log Dump 1218 Reliable Welding Works 1325 Vacant
1965	1210 Hardel Mutual Plywood Olympia Towing West Side Log Dump 1218 Reliable Welding Works
1960	1205 West Terrace Apartments 1210 Hardel Mutual Plywood Olympia Towing West Side Log Dump 1218 Reliable Welding Works 1221 Residence
1955	1205 West Terrace Apartments 1210 Hardel Mutual Plywood Olympia Towing West Side Log Dump 1218 Reliable Welding Works 1221 Residence
1951-1952	1205 West Terrace Apartments 1210 Hardel Mutual Plywood Olympia Towing West Side Log Dump 1218 Reliable Welding Works 1221 Residence
1945	1205 Residence/Cement contractor 1210 Olympia Towing West Side Log Dump 1218 Reliable Welding Works-Shipyard 1221 Residence
1939	1205 Residence 1210 Olympia Harbor Lumber Company West Side Log Dump 1221 Residence
1935	No reverse directory available
1930	No reverse directory available

4.2.2 Sandborn Map Review

Sandborn maps for the years, 1924, 1946, 1947, and 1968 were reviewed by Tetra Tech staff and are provided in Appendix B. Findings of the Sandborn Map Review are provided as follows:

1924. A sawmill owned by Henry McCleary Timber company is shown on the property. The mill facility was situated primarily north of the intersection of Woodard Avenue and West Bay Drive. The mill consisted of two sawmill areas that were connected by conveyors to a "refuse fire" area northeast of the mill. The "refuse fire" area was located about 860 feet northeast of the northern corner of Woodard Avenue and West Bay Drive. An aboveground steel tank was located on the west side of a log way in the northern portion of the site about 200 feet north and 100 feet east of the this same street corner.

A railway spur existed near the northern corner of the right-of-way for Hays Avenue and extended across the site to the northwest. The spur forked with one branch extending north into the saw mill area and the other spur trending to the northeast toward Budd Inlet. A structure labeled "autos" was located near the current southern property boundary just north of the fork in the railroad spur.

Wood planers were located in the southwestern part of the current Hardel waterfront property and a lumber platform is shown south of the current property boundary. The Reliable Steel Fabricators facility is not shown on the map.

Hydraulic fill is labeled on the map in the western portion of the property. There is also an area labeled "ruins of fire" in the far eastern part of the subject property, about 350 feet east of West Bay Drive.

1946. The majority of the property was vacant. A structure labeled "5 ton traveling crane, lumber in transit" is shown south of the current property boundary near where the log platform was shown in the 1924 map. The "refuse fire" area in the northern portion of the property seen in the 1924 map is still present as are the areas of "hydraulic fill" and "ruins of fire". The Reliable Welding, Inc. facility is shown south of the 5-ton traveling crane. The building at Reliable Welding, Inc. is labeled "wood truss ship welding". A small building is shown between the forks of the railroad spurs in the area labeled "autos" in the 1924 map. The label for the building is illegible. Another small building labeled

“lunch room” is located about 100 feet to the west of the small building. The office for Olympia Towing is also shown in the southwest portion of the subject property west of the fork in the railway spur.

1947. The layout of the buildings is largely the same as 1946. The small building between the railway spur forks has an addition that is labeled “welding, concrete floor”. It appears that this building may be a shop for Olympia Towing.

1968. Hardel Mutual Plywood Corporation occupies most of the subject property. The configuration of the building was significantly different than in 1996. Based on the figure, wood processing such as peeling and chopping occurred in the northern part of the site. It appears that logs were off-loaded from Budd Inlet using the crane and log way shown at the northern “green end” labeled on the map. Steel dry kilns are shown along the current western property boundary about 100 feet north of the intersection of Woodard Avenue and West Bay Drive. A boiler and patching area are shown north of the intersection of Woodard Avenue and West Bay Drive. A separate structure is shown in the southern portion of the subject property that is labeled “dryer and plywood gluing and pressing”. A welding shop is shown north of the fork in the railway spurs in the southern portion of the current property in the same location as the welding facility shown in the 1946 and 1947 maps. The office shown in the 1946 and 1947 maps is still present.

A structure labeled “metal fabrication” is shown on the northern side of the 5-ton traveling crane south of the current property boundary. The Reliable Welding Works “ship welding” facility is shown south of the crane.

4.3 RESULTS OF RECORDS REVIEW

Records related to the subject property were reviewed at the Washington State Department of Ecology (Ecology) Southwest Region offices in Lacey, Washington. Records regarding post-fire cleanup activities were obtained from Hardel Mutual Plywood Corporation in Chehalis, Washington. The records include plans, spill and fire reports, public complaints, permits, correspondence regarding industrial processes and wastes, waste manifests and associated waste records, and analytical data.

4.3.1 Records of Storage Tanks

According to a 1990 contingency plan (Hardel 1990b), the plant had the following tank storage:

- 1 - 6,600 gallon caustic tank (50 percent sodium hydroxide)
- 2 - 5,000-gallon formaldehyde resin tanks
- 1 - 2,400 gallon glue storage tank
- 1 - 1,400 gallon glue storage tank
- 1 - 1,000 gallon hydraulic oil tank
- 1 - 800 gallon glue mixing tank
- 1 - 600 gallon resin mixing tank
- 1 - 500 gallon waste oil tank (mixture of oil and water)
- 1 - 400 gallon used oil tank
- 1 - 270 gallon air compressor oil tank
- 1 - 150 gallon caustic mix tank
- 1 - 3,141 gallon pitch scrubber tank
- 1 - 1,122 gallon pitch settling tank
- 20 - 55 gallon drums of miscellaneous petroleum products

Most of these tanks were located on the eastern side of the plant (refer to Figure 4) at and near the glue and caustic storage area and maintenance and welding shops.

Ecology's UST database also includes a record of a 111 to 1,100 - gallon UST that was reportedly installed at the site in 1964 (refer to Appendix A and Section 6.3.2). This tank reportedly contained unleaded gasoline and was closed in place. The date of closure is not listed in the database.

4.3.2 Records of Wastes Generated at the Facility

Hardel Mutual Plywood Corporation stored and handled petroleum products, caustic containing sodium hydroxide, and a phenol-formaldehyde resin in the process of manufacturing plywood at the waterfront property. Additional information regarding specific wastes identified during the file review is summarized below:

-
- **Dryer scrubber waste.** This waste failed bioassay tests based on tests run by Ecology's laboratory during January 1982 and August 1982 (Ecology 1982c and 1982e). An October 18, 1982 letter from Ecology states that the dryer scrubber wastes are a state designated "extremely hazardous waste" based on August 4, 1982 bioassay results (Ecology 1982e). The letter also discusses various options for disposal including use as fuel for the boiler and disposal at a hazardous waste landfill. An October 5, 1982 letter from the American Plywood Association to Ecology states that the veneer dryer sludges generally contain isopropene derivatives, terpenes, sesquiterpenes, and diterpenes such as resin acids (American Plywood Association 1982). A February 10, 1983 letter from Hardel Mutual Plywood to Ecology states that facility bioassay test results for dryer scrubber waste show low mortalities (Hardel 1983). There is no record in Ecology's files as to how disposal of this waste was ultimately addressed.

 - **Boiler Fly Ash.** This material is characterized by elevated pH and Ecology determined that it was a state-listed D001 hazardous waste. There are several letters regarding disposal of this material. By 1990, Ecology had approved recycling of the boiler fly ash into the plywood glue (Ecology 1990a).

 - **Resin, Glues, and Glue Wastes.** A 1982 data summary report for the Ecology Olympia Environmental Laboratory states that the glue waste had a pH of 10.8 and contained recoverable phenolics at a concentration of 290 milligrams per liter (mg/L) (Ecology 1982c). The sample results also indicated that phenolic glue wastewater bioassays resulted in 3 percent mortalities at a concentration of 1,000 parts per million wastewater. A January 18, 1982 inspection summary form (Ecology 1982b) states that the phenolic glue was composed of 68.4 percent phenolic resin, 14.6 percent waste glue wash water, 5.7 percent alder bark flower (Walderfil), and wheat flower (7.6 percent). An Ecology letter dated January 8, 1982 (Ecology 1982a) states that dilute phenolic washwater from equipment washing was occasionally disposed of at the local Thurston County landfill when glue wastes exceeded available onsite tank capacity. A December 16, 1981 Ecology letter notes that the majority of the glue washwater (about 95 percent) was recycled during glue mixing operations (Ecology 1981). It appears that the glues

changed in composition or that there was more than one type of glue used in operation after 1982. A 1986 Ecology spill cleanup report (Ecology 1986) refers to the resin as "cascophen PF 313-H, a phenolic-formaldehyde resin". Material safety data sheets dated January 22 1993 state that "soft-plywood glue" was composed of formaldehyde (0.1 to 1.0 percent), sodium carbonate (1 to 5 percent), and sodium hydroxide (5 to 10 percent).

- **Patching Material.** December 16, 1981 (Ecology 1981) and January 8, 1992 (Ecology 1982a) Ecology Inspection letters note that knotholes in the plywood were patched with Panel Patch II™, a polyurethane resin produced by mixing a polyoil with polymethylene polyphenyl-isocyanate. The dates of use for this material are not documented in the Ecology files. A 1993 spill report refers to a spill of phenyl isocyanate (methylene bis) (Ecology 1993). A February 1990 letter from Hardel Mutual Plywood Corporation to Ecology regarding a SARA Title III contingency plan lists 12,415 pounds of synthetic patch containing a petroleum solvent (Hardel 1990b).

- **Miscellaneous Glues.** A 1987 material safety data sheet provides information regarding the presence of a contact glue (solvent-based adhesive) used at the facility. This glue consisted of 50 percent methylene chloride and 1 percent 2-butoxyethanol. A June 18, 1987 notification of dangerous waste activities refers to generation and one-time offsite disposal of 1,320 pounds of chlorinated adhesive (listed as F001 waste), 9,240 pounds of combustible waste, and 440 pounds of ORM-E waste (Hardel 1987). Under the comment section, it notes that these materials were stored at the site for about twelve years prior to 1987 and that the material was no longer suitable for plant operations.

- **Oils and Other Petroleum Products.** Oils were routinely used for the press pits and other equipment at the site as is evident from the aboveground tank information discussed in Section 4.3.2.

4.3.3 Records of Spills and Fires

The following spills and fires at the Hardel Mutual Plywood Waterfront facility are documented in Ecology site files:

- **October 8 1982 machinery oil spill.** Jerry Wilson of Hardel Mutual Plywood reported a spill of about 50 gallons of machinery oil in the subject property parking lot to Ecology. The spill was reportedly contained and no oil was reportedly released to storm drains at the site (Ecology 1982d).
- **July 8, 1986 formaldehyde-phenolic resin (Cascophen 313-H) spill.** About 100 to 300 gallons of phenolic-formaldehyde resin was spilled from a tank truck during the delivery of product (Ecology 1986). Nearby storm drains were reportedly diked and covered with plastic before the spilled material reached them. The spilled material was reportedly soaked up with sawdust and placed in fifteen 55-gallon drums and disposed of offsite.
- **March 23, 1989 Baghouse Fire.** According to a March 23, 1989 inspection report (Ecology 1989a), the baghouse caught fire and the fire spread to a nearby dust storage tower. Firefighters opened the base of the tower and used fire hoses to remove sawdust until the fire was quenched. According to the inspection report, minimal amounts of sawdust and water used in firefighting were discharged to Budd Inlet
- **September 1989 Ecology inspection.** The October 10, 1989 report notes the presence of particulates in stormwater discharge (Ecology 1989b). Spillage near a sanitary sewer drain at the maintenance shop was also noted. The report states that the maintenance shop was used for welding and repair, and a Safety Kleen, Inc., parts washer exists in the shop.
- **April 17, 1990 hydraulic oil spill.** About 70 gallons of hydraulic fluid were spilled and approximately 20 to 30 gallons of hydraulic oil were discharged to Budd Inlet according to Ecology's environmental report (Ecology 1990b).

-
- **February 17, 1991 Ecology inspection.** Ecology performed an inspection of discharges into sanitary sewers and storm sewers at the subject property. Discharges to the sanitary sewers were noted from the wash rack used to clean forklifts at the facility, wastewater from dryer washing, cooling water, and boiler blowdown. According to the inspection report (Ecology 1991), there were seven stormwater drains connected to three outfalls on Budd Inlet. The storm drains appeared to have no catch basins and water draining into Budd Inlet was dark in color and had an oily sheen.

 - **June 1, 1993 patch material spill.** A 326-gallon tote of phenyl isocyanate (methylene bis fell off a truck and split open. Storm drains and waterways were not affected according to Ecology's June 1, 1993 report (Ecology 1993).

 - **September 1, 1996 fire.** This fire destroyed the Hardel Mutual Plywood plant. An Ecology environmental report tracking system incident history form included with a biologic assessment (Ecology 1996) states that because of the massive amounts of water that were used to fight the fire, it was not possible to contain and treat the resulting wastewater. Further, storm drains in the lot where this water accumulated were near standing stacks of burning veneer and approaching the drains posed a safety problem. A biologic survey was performed by Ecology during the fire and no wildlife or fish mortalities were found. Elevated pH levels (8.5 to 10.5) were found in surface water in Budd Inlet over an area of approximately 80 by 100 yards adjacent to the site. The elevated pH levels reportedly dissipated quickly (Ecology 1996).

4.3.4 Records of Complaints

The following record of complaint was found in Ecology files for the subject property:

- **November 15, 1985.** Ecology responded to an anonymous complaint of ongoing disposal of wood waste into Budd Inlet (Ecology 1985). Ecology personnel visited the site and noted that there was an old wood waste landfill on the waterside of the property, but that it was no longer being used. The inspector also noted that there was a stockpile of wood chips on the West Bay Drive side of the property that was moved off-site regularly, and that recycling was ongoing on the date of inspection.

4.3.5 Permit Records

The following permit records were found during the review of site files:

- **March 30, 1980.** Approval of public notice for permit for work in navigable waters by Army Corps of Engineers (ACOE 1980). Project involved construction of a bulkhead, dredging, and placement of fill.
- **January 20, 1990.** Approval for continuation of steam cleaning forklifts near shop sanitary sewer drain by the City of Olympia (1990). The permit includes prohibition on disposal of solvents and other hazardous material into the sanitary sewer. As a condition of the permit, total allowable oils and grease in effluent must not exceed 50 mg/L.
- **March 5, 1990.** Ecology (1990a) approval of recycling of boiler fly ash into glue mix. About 35 tons per year of fly ash was to be used as a substitute for caustic and extender in the glue. The letter also includes approval of the site contingency plan.
- **August 23, 1993.** State Environmental Policy Act determination of non-significance for proposed cooling tower addition (City of Olympia 1993).
- **June 20, 1997.** Olympia Fire Department fire system permit for removal of 15,000 gallon propane tank (City of Olympia 1997b)
- **July 10, 1997.** State Environmental Policy Act Mitigated Determination of Nonsignificance, Harde! Plywood Demolition. Project involved demolition of fire damaged plywood manufacturing plant, including removal of two collapsed buildings, two standing buildings, and associated machinery (City of Olympia 1997a)

4.3.6 Post-Fire Cleanup Records

The post-fire cleanup involved removal of wastes, dismantling the driers and presses, and demolition and removal of building remains.

The initial cleanup activities at the subject property are described in the Wick Constructors (1996) report. The site was secured and debris was removed so that the stormwater catchbasins could be blocked. Water that accumulated in low portions of the site was pumped into temporary storage tanks. Water pumped to the tanks included water accumulating in the press pits and about 30,000 gallons of highly contaminated water from the hog line. Water from these areas had elevated pH levels in addition to being contaminated with oil and grease. The pH was neutralized and the water was subsequently discharged to the sanitary sewer. A total of about 100,000 gallons of water were disposed of to the sanitary sewer during initial cleanup activities during September and October 1996.

On September 27, 1996, it was noted that after pumping all water from the "hog pit" area, water began seeping into the pit from a hole in the foundation wall (Wick Constructors, 1996). This breach in the integrity of the pit indicates a potential for releases of contaminated water to the subsurface at this location.

A surface water sample was also collected from near the caustic storage tanks on September 6, 1996 and analyzed for the presence of semivolatile organic compounds (Boateng & Associates 1996). Analytical results indicated that the sample contained phenol (214 $\mu\text{g/L}$), benzoic acid (175 $\mu\text{g/L}$), and 4-methylphenol (25 $\mu\text{g/L}$).

Additional water that accumulated in the press pits after initial cleanup activities was pumped out during 1997, so that the presses could be removed. Analytical results showed that the oil and grease content of the water from the press pits ranged from 31 mg/L to 55 mg/L (Hardel 1997). About 21,500 gallons of water were pumped out of the press pits and disposed of to the sanitary sewer.

Demolition and disposal of the remains of the boiler and boiler house, disengagement chamber, truck shed, sander dustbin and baghouse support structures occurred during 1998. Asbestos abatement activities related to dryer dismantling and other activities occurred during May 1998 (Pacific Rim Environmental 1998).

The following wastes were removed from the property based on a list of chemicals to be removed from the Hardel site dated March 27, 1998 (Hardel 1998), and waste manifests for 1997 and 1998 provided

by the facility (Hardel 1997 and 1998), Wick Constructors (1996), and Philip (1997). These wastes included:

- 41 barrels of plywood glue (solid/semisolid) mixed with wood
- 7 barrels of absorbent pads soaked with Unocal AW-46 oil
- 1 barrel of wood and sawdust debris soaked with AW-46 oil
- 1 barrel of waste Unocal AW-46 hydraulic oil
- 1 barrel of absorbent pads soaked with Amotherm 150 oil
- 4 barrels of Willamette XU-100-A soaked wood and soil debris
- 6 barrels of Willamette XU-100-A patch (liquid)
- 1 tote container (327 gallons) Willamette XU-100-A patch (liquid)
- 1 barrel of absorbent pads soaked with XU-100-A
- 2 barrels of red stencil paint
- 1 barrel of unknown liquid (diesel fuel/water mix?)
- 3 totes containing (280 gallons per tote) of face grade putty
- 10 light ballasts containing PCBs
- 10 gallons of waste paint (yellow safety and traffic paint) (D001 and D008 wastes)
- 1,875 gallons of waste sodium hydroxide solution (DOO2 waste)
- 170 pounds of grease
- 1,500 gallons of glue waste from the "milk truck" at the site
- 14 barrels of wood and assorted debris contaminated with AW-46 hydraulic oil
- 26 drums of ash waste

4.3.7 Sediment Sampling Records

Two sediment samples were collected from the vicinity of the subject property as part of a regional study of lower Budd Inlet conducted by the Washington State Department of Ecology (Ecology 1999). A table summarizing the analytical results and map showing the sample locations is provided in Appendix C. One of the samples was collected from the intertidal zone on the northern side of the property, and the other was collected from the southern portion of the property from a subtidal area east of a concrete structure offshore of the site. The samples were analyzed for percent solids, total organic carbon content, metals, semivolatile organic compounds, and phenols. The concentrations of metals detected in each sample were comparable to metals concentrations at the reference (background)

sampling station. Polycyclic aromatic hydrocarbons, phenol compounds, and other semivolatile organic compounds were reported to be present at detectable concentrations in both of the sediment samples collected near the subject site. The detected concentrations of organic constituents in both samples were at levels below Ecology sediment quality standards and cleanup screening levels. The report concludes that concentrations of metal and organics were generally low in sediment samples from Budd Inlet and that chemical contamination problems seem to be associated with specific discharges. The subject property was not listed as contributing to the specific chemical contamination problems noted.

SECTION 5 ENVIRONMENTAL SETTING

5.1 REGIONAL PHYSIOGRAPHY

The site is located in lowlands and tidelands along the west side of Budd Inlet, in the western part of Olympia, Thurston County, Washington (refer to Figure 1). The land-based portion of the property is generally fairly flat. The property ranges in elevation from about 0 to 15 feet above mean sea level (MSL). The site is bordered by a series of hills to the west. The eastern portion of the subject property has been mapped as wetlands per the national wetlands inventory (refer to overview and detail maps of Appendix A).

5.2 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

Geologic data for the subject site is limited. Based on the Sanborn maps, it appears that the shallow subsurface materials underlying the site would consist of hydraulically placed fill that is likely to be comprised of sand, silt, and wood debris. According to the State Environmental Policy Act checklist (City of Olympia 1997a), the soils at the site consist of wood fill overlying loose beach sand deposits and gray silt to a depth of about 35 feet below surface grade.

Typically, the groundwater surface in an unconfined aquifer will mimic local topography, and groundwater will flow toward topographic lows. By applying this geological interpretation to local site topography, the estimated direction of shallow groundwater flow beneath the subject site would be anticipated to be toward the east toward Budd Inlet. However, groundwater flow beneath the site is also likely to be influenced by tidal fluctuations in Budd Inlet, creating significant uncertainties regarding mean (net) groundwater flow direction at the site. Depth to groundwater at the site is unknown, but is likely to be about 5 to 10 feet below surface grade due to the flat topography of the site and the close proximity of the site to Budd Inlet.

Based on federal well database information collected by Environmental Data Resources, Inc. (refer to Appendix A), there is one irrigation well located east of the subject property. This well is located 0.25 to 0.5-miles away across Budd Inlet from the subject property. Depth to water in this well has ranged

from 165 to 220 feet below surface grade. The well is completed in basalt and is 542 feet deep and was constructed before 1916.

SECTION 6

RESULTS OF INVESTIGATION

The following sections provide an overview of the results of the site inspection and regulatory database review conducted for the Hardel Mutual Plywood Waterfront Property Phase I ESA.

6.1 SITE INSPECTION OBSERVATIONS

During the May 18, 1999 site inspection, Tetra Tech assessed the existing environmental conditions of the property and surrounding vicinity. Potential areas of concern which were investigated included the possible existence of USTs, ASTs, hazardous chemicals used onsite, storage of hazardous materials and hazardous waste, improper disposal of hazardous substances, and the presence of PCBs and lead-based paint and asbestos-containing materials. Photographic documentation of the site inspection is presented in Appendix D and includes photos taken during the May 18, 1999 inspection and photos taken during an earlier site visit conducted in January 1999.

The site presently consists of concrete building foundations and adjoining asphalt parking and veneer storage areas. The field team noted the presence of several pipes, drains, and structures of unknown origin during the inspection. Most of these features were later identified through interviews with plant personnel and use of facility maps (refer to Figure 3). The field team was also able to walk the intertidal zone along the western side of the subject property as the May 1999 site inspection was conducted during a low-tide period.

The following environmental conditions were noted during the May 1999 site inspection:

- No suspected lead-based paint or asbestos-containing materials appear to be present on the main portion of subject property based on a visual inspection. Chemicals and debris left onsite following the 1996 fire have been removed. There are detailed

environmental records regarding demolition and removal activities following the fire (refer to Section 4.3.7).

- The storage shed that lies across the northern property boundary may contain lead-based paint or asbestos-containing materials. Tetra Tech did not assess the storage shed because Tetra Tech believed that the shed was not on the subject property at the time of the inspection. Also, the pilings beneath the shack have been eroded, posing a potential safety hazard. The amount of lead-based paint or asbestos-containing materials in the shed, if present, is probably small based on the size of the shed.
- No evidence of airborne contaminants was observed on the subject property, as the facility is no longer active.
- Minor surface oil staining was observed on concrete and asphalt surfaces near the compressor room, petroleum product storage area, and truck port loading area.
- Six stormwater sewer outfalls were identified along the eastern edge of the property (refer to Figure 3). Of these, only the northernmost and southernmost were actively draining water. The water draining from the outfalls was clear and had no odor.
- The UST identified in Ecology records may be located east of the welding shop based on an interview with Mr. Tiffany, and the presence of a concrete area (refer to point 133 of Figure 3) surrounded by asphalt. No vent pipes were located during the site inspection.
- Iron-stained sediments were noted in the intertidal zone at the southern end of the property (see photographic log). An empty 100 to 200 gallon tank was also found in the intertidal zone at this location. A sheen was noted on surface water draining from a seep in the iron-stained area. However, no petroleum odors were detected in the vicinity of the seep, and the sheen could be related to algae, bacteria, or other biogenic sources. The iron-stained sediments are located west of a former welding shop based on the 1946, 1947, and 1968 Sanborn fire insurance maps.

6.2 SITE VICINITY

The field team observed land uses and operations in the vicinity of the subject site. Reliable Steel Fabricators, Inc., a tank manufacturing facility, was observed from a vantage point on West Bay Drive and from the subject property. This property appeared to be an older industrial property based on the appearance of the equipment (such as the traveling crane) and buildings at the site. A tank farm, owned by Industrial Petroleum Distributors was also noted on the hillside southwest of the subject property.

Additional information concerning improper hazardous materials use, storage, handling, or disposal practices at adjacent sites was obtained through a regulatory records search and is presented below.

6.3 RESULTS OF REGULATORY AGENCY DATABASE SEARCH

Environmental Data Resources, Inc., a Tetra Tech subcontractor, searched lists compiled by the U.S. Environmental Protection Agency (EPA) and the Washington State Department of Ecology for sites within a specified radius of the subject property which have had unauthorized releases of hazardous materials or hazardous waste (Appendix A). Specified government databases were searched in accordance with the ASTM Standard E 1527-97 search distances for sites that may have had an unauthorized release of hazardous materials.

The following sources were searched for sites that may have had an unauthorized release of hazardous materials:

- Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS). A database of sites identified by the EPA as abandoned, inactive, or uncontrolled hazardous waste sites which may require cleanup.

- National Priorities List (NPL). EPA maintains this list under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA). Those

CERCLIS sites that pose the greatest potential risk to human health and the environment are added to the NPL.

- Resource Conservation and Recovery Information System (RCRIS). RCRIS includes selective information compiled by EPA on sites which generate, transport, store, treat, and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Lists of RCRA small quantity generators, RCRA permitted treatment, storage, and disposal facilities, and RCRA corrective action sites are included in the database.
- Emergency Response Notification System (ERNS). EPA maintains the ERNS records and stores information on reported releases of oil and hazardous substances.
- State Hazardous Waste Sites (SHWS). The Washington State Department of Ecology publishes the Confirmed & Suspected Contaminated Sites Report. State hazardous waste site records are the state's equivalent to CERCLIS. Priority sites planned for cleanup using state funds are identified along with sites where cleanup will be paid for by potentially responsible parties.
- Leaking Underground Storage Tanks (LUST). Each of the Washington State Department of Ecology Regional offices maintains an inventory of reported leaking underground storage tank incidents.
- Solid Waste Facilities/Landfill Sites (SWF/LS). The Washington State Department of Ecology headquarters office maintains a list of solid waste landfills, including the name and address, type of landfill, and if it is a permitted facility.
- Underground Storage Tanks (UST) and Leaking Underground Storage Tanks (LUSTs). Each of the Washington State Department of Ecology Regional offices maintains a list of registered and leaking USTs.

6.3.1 U.S. Environmental Protection Agency Lists

In accordance with the ASTM Standard E 1527-97 minimum search distances, there were four RCRIS Small Quantity Generator listings of sites within a 0.25-mile radius of the subject property. These sites include the subject property, the adjacent Reliable Steel Fabricators, Inc facility, Industrial Petroleum Distributors located at 1117 West Bay Drive, (0.13-mile to 0.25-mile southwest of the subject property) and Olympia Forest Products at 1819 West Bay Drive (0.13-mile to 0.25-mile north-northwest of the subject site).

Violation records are noted in the database records for the Reliable Steel Fabricators, Inc., and Industrial Petroleum Distributors sites. No violations are reported in the database for the subject site or for the Olympia Forest Products site.

There are no RCRA corrective action or RCRA treatment, storage, and disposal facilities listed within a 1-mile and 0.5-mile radius of the site, respectively. There were no CERCLIS or NPL sites listed within a 0.5-mile radius, and no ERNS listings on adjoining properties or the subject property.

6.3.2 Washington State Department of Ecology Records

In accordance with the ASTM Standard E 1527-97 minimum search distances, there are three listings of UST sites within a 0.25-mile radius of the subject property. These sites include: the subject site, the adjacent Reliable Steel Fabricators, Inc., site, Evergreen Plaza, Inc., located at 1433 West Bay Drive Northwest (less than 0.13-mile to the west-southwest), and Delson Lumber Company at 1821 West Bay Drive Northwest (0.13-mile to 0.25-mile north-northwest) of the subject property. The USTs were removed at the Reliable Steel Fabricators, Inc., Evergreen Plaza, Inc., and the Delson Lumber Company sites. The gasoline UST at the subject property was reportedly closed in-place. The database records do not include the date of closure for the tanks.

The Industrial Petroleum Distributors site is included on Ecology's confirmed and suspected contaminated sites list. According to the database, petroleum products and semivolatile organic compounds have been confirmed to be present at concentrations above the Washington State Administrative Code Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 of the Washington Administrative Code) standards in soils at the site and polynuclear aromatic hydrocarbons

are suspected to be present. Groundwater, sediment, and surface water contamination are also suspected to exist at this location. Background information indicates that Ecology is awaiting further characterization information from the potentially liable parties. Database records indicate that this facility has been preliminarily ranked as a category 1 site under the Washington Ranking Model. This ranking is used for sites posing the highest risk to human health and the environment. This site is located at a higher elevation than the subject property. However, this facility is adjacent to the shoreline of Budd Inlet and is approximately 0.2-miles south-southwest of the subject property. Based on this site's location relative to the anticipated direction of groundwater flow, the likelihood of impacts to the subject property is considered to be low.

The Warehouse One Port site located at the intersection of North Washington and B Avenue was also identified as being on the confirmed and suspected contaminated sites list. However, the site is located across Budd Inlet from the subject site and documented soil and groundwater petroleum contamination does not pose a risk to the subject property.

The database search indicates that independent cleanup reports exist for the Delson Lumber Company facility associated with tank removal activities. Petroleum products were detected in soil and groundwater at the Delson Lumber Company site. A final cleanup report was received by Ecology in 1995 according to the database.

There were no sites listed within a 0.5-mile radius of the subject site on the Solid Waste Facilities list or the SHWS list. The presence of a coal gas site (Olympia Gas & Power Company) is also noted in the database. This site is also located to the southeast across Budd Inlet from the subject property and does not pose a significant risk to the subject property

SECTION 7 CONCLUSIONS AND RECOMMENDATIONS

The Hardel Mutual Plywood waterfront property in Olympia, Washington was assessed for potential environmental risks associated with historic and surrounding land uses. A summary of the findings of the Phase I ESA are provided as follows:

- No environmental liens against the subject property have been identified.
- No evidence of the unauthorized release of pollutants to the airborne environment was found during the site inspection.
- Documented past releases of caustics, machinery oil, and wood particles to Budd Inlet were found in Washington State Department of Ecology records.
- Materials routinely used at the site of potential environmental concern include: machinery oil, glue and glue washwater containing phenol and formaldehyde, fly ash and boiler ash characterized by high pH, sodium hydroxide solution, methylene chloride, and patch material containing methyl isocyanate.
- No evidence of asbestos, lead-based paint, or PCBs was found during the site walk-through. Wastes containing these materials were reportedly disposed of offsite during post-fire cleanup and demolition activities based on review of facility records. The shed that lies across the northern property boundary was not assessed.
- Sediment sampling does not appear to be warranted at this time based on a review of recent Ecology (1999) sediment sampling results for the subject property. These results show that concentrations of site-related compounds in the adjacent portions of Budd Inlet are below Ecology sediment quality standards. However, if dredging is

planned as part of future site redevelopment, further sediment characterization may be necessary.

- Facilities near the subject property have been cited for violations of state and federal waste storage and handling regulations. Groundwater quality at these sites has not been characterized based on review of database records. Environmental sampling of groundwater at the subject property would be necessary to determine with certainty whether groundwater quality at the subject site has been impacted by operations at nearby facilities.
- Soil and groundwater contamination may exist on the subject property based on the period of operation, presence and use of hazardous substances, and documented spill and fire history at the facility. No records of soil or groundwater characterization data for the subject site were identified during this phase I ESA. Subsurface soil and groundwater sampling would be necessary to determine whether soil and groundwater quality at the subject site has been impacted.
- Limited soil and groundwater sampling is recommended to characterize the subsurface concentrations of petroleum and other substances used routinely in plant operations. Areas of potential concern include: the maintenance and welding shop drains, the petroleum products and used oil storage area, the glue and caustic storage area, the hog line and press pits, the glue wash water tank north of the main plant, and the suspected location of the gasoline UST east of the former welding shop. This work should be performed before starting excavation and construction projects related to site redevelopment or selling the property.

SECTION 8 LIMITATIONS

This report was compiled based partially on information supplied to Tetra Tech from outside sources and other information that is in the public domain. The conclusions and recommendations herein are based solely on the information Tetra Tech obtained in compiling the report and is on file at Tetra Tech's Seattle, Washington Office. Tetra Tech makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Because the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. Tetra Tech does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of client's obligations under local, state, or federal laws or any modifications or changes to such laws. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

We appreciate the opportunity to work with you on this project. If you have any questions concerning the findings and conclusions contained in this report, please contact me at (206) 587-4667.

Sincerely,

Ben Farrell for

James P. Wright
Project Manager

SECTION 9 REFERENCES

ACOE 1980. Approval of public notice for permit for work in navigable waters. Army Corps of Engineers. March 13th.

American Plywood Association 1982. Letter to Ecology regarding veneer dryer emissions, wood species present, and toxicity. October 5th.

ASTM 1997. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation: E 1527-97. American Society for Testing and Materials. March 10th.

Boateng & Associates 1996. Draft Materials Handling Work Plan for Hardel Mutual Plywood Corporation, Olympia, Washington. Boateng and Associates, Inc. September

City of Olympia 1990. Letter regarding December 29th site visit and steam cleaning of forklifts above sewer utility drain. City of Olympia, Public Works Department. January 29th.

City of Olympia 1997a. State Environmental Policy Act Mitigated Determination of Non-Significance, Hardel Plywood Demolition. City of Olympia, Department of Community Planning and Development. July 27th.

City of Olympia 1997b. Olympia Fire Department Fire Systems Permit and billing for removal of propane storage tank. City of Olympia, Department of Community Planning and Development. June 20th.

Ecology 1981. Letter regarding RCRA Inspection conducted at Hardel Mutual Plywood in Olympia, Washington on December 9, 1981. Washington State Department of Ecology. December 16th.

Ecology 1982a. Letter to Hardel Mutual Plywood Corporation regarding December 9, 1981 RCRA compliance inspection. Washington State Department of Ecology. January 8th

Ecology 1982b. Inspection note regarding January 18, 1982 site visit. Washington State Department of Ecology. January 18th.

Ecology 1982c. Data summary reports for samples collected January 18, 1982 by Olympia Environmental lab. Washington State Department of Ecology, Olympia Environmental Lab. March 25th.

Ecology 1982d. Environmental report, machinery oil spill, Washington State Department of Ecology. October 8th.

Ecology 1982e. Letter to Hardel Mutual Plywood Corporation regarding dryer scrubber wastes and bioassay test results. Washington State Department of Ecology. October 18th.

Ecology 1985. Environmental complaint response. Washington State Department of Ecology. November 15th.

Ecology 1986. Hazardous material incident report regarding phenolic resin spill. Washington State Department of Ecology. July 8, 1986.

Ecology 1989a. Inspection report related to March 23, 1989 bag house fire. Washington State Department of Ecology. March 23, 1989.

Ecology 1989b. Inspection report summarizing September 7, 1989 site visit. Washington State Department of Ecology. October 10th.

Ecology 1990a. Summary of February 28, 1990 plant tour and meeting agreements. Washington State Department of Ecology. March 5th.

Ecology 1990b. Environmental Report Regarding Hydraulic Oil Spill. Washington State Department of Ecology. April 17th.

Ecology 1991. Inspection Report for February 20, 1991 site visit. Washington State Department of Ecology. February 20th.

Ecology 1993. Environmental Report regarding spill of methylenebis, part B hardener. Washington State Department of Ecology. June 1st.

Ecology 1996. Biological Survey associated with Hardel Plywood Fire, September 1, 1996, 1530-1606 hours. Washington State Department of Ecology. September 6th

Ecology 1999. Lower Budd Inlet Sediment Characterization Study, Midwest Site Evaluation and chemical Screening of Selected Point Sources. Washington State Department of Ecology. Publication Number 99-305. February 1999.

Gibbs & Olson 1999a. Survey for Hardel Mutual Plywood, A Portion of Moses Hurd D.L.C > #59 in S.E. ¼ SEC. 10, TWP. 18N., RGE. 2W., W.M. August 7th.

Gibbs & Olson 1999b. Survey Map of Hardel Mutual Plywood, Olympia, Washington. March 1st.

Hardel 1983. Letter to Ecology regarding bioassay results for dryer scrubber waste. Hardel Mutual Plywood Corporation. February 10th.

Hardel 1987. Form 2, Notification of Dangerous Waste. Hardel Mutual Plywood Corporation. June 18, 1987

Hardel 1990a. Letter regarding maintenance shop sewer drain use to LOTT. Hardel Mutual Plywood Corporation. February 9th.

Hardel 1990b. Letter and attached contingency plan, SARA Title III, to Ecology. Hardel Mutual Plywood Corporation. February 15th.

Hardel 1997. Letter from Hardel Mutual Plywood Corporation to LOTT regarding Hardel press pit stormwater results. Hardel Mutual Plywood Corporation. August 15th

Hardel 1998a. List of chemicals to be removed form Olympia Demolition Site. Hardel Mutual Plywood Corporation. March 27th

Hardel 1997 and 1998. Hazardous and non-hazardous waste manifests, waste profile sheets, packing slips, and letters of certification for Hardel Olympia site cleanup and demolition. Hardel Mutual Plywood Corporation. Various Dates.

Philip 1997. Purchase order for glue waste removal and disposal, Hardel Olympia site. Philip Services Corporation. August 25th.

Wick Constructors 1996. Hazardous Materials Management Plan, Fire Damaged Facilities - Hardel Plywood Mill, Olympia, Washington. September.

APPENDIX A

EDR DATABASE SEARCH



The EDR-Radius Map with GeoCheck[®]

Hardel Mutual Plywood
1210 N.W. West Bay Drive
Olympia, WA 98502

Inquiry Number: 375678.3s

June 02, 1999

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

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

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-97. Search distances are per ASTM standard or custom distances requested by the user.

The address of the subject property for which the search was intended is:

1210 N.W. WEST BAY DRIVE
OLYMPIA, WA 98502

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the subject property or within the ASTM E 1527-97 search radius around the subject property for the following Databases:

NPL:..... National Priority List
Delisted NPL:..... NPL Deletions
RCRIS-TSD:..... Resource Conservation and Recovery Information System
CERCLIS:..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP:..... Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS:..... Corrective Action Report
SWF/LF:..... Solid Waste Facility Database
LUST:..... Leaking Underground Storage Tanks Site List
RAATS:..... RCRA Administrative Action Tracking System
RCRIS-LQG:..... Resource Conservation and Recovery Information System
HMIRS:..... Hazardous Materials Information Reporting System
PADS:..... PCB Activity Database System
ERNS:..... Emergency Response Notification System
FINDS:..... Facility Index System/Facility Identification Initiative Program Summary Report
TRIS:..... Toxic Chemical Release Inventory System
NPL Lien:..... NPL Liens
TSCA:..... Toxic Substances Control Act
MLTS:..... Material Licensing Tracking System
ROD:..... ROD
CONSENT:..... Superfund (CERCLA) Consent Decrees
Air Emissions:..... Wa Air Emissions (EMI)
MINES:..... Mines Master Index File

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

Search Results:

Search results for the subject property and the search radius, are listed below:

Subject Property:

The subject property was identified in the following government records. For more information on this property see page 9 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
HARDEL MUTUAL PLYWOOD 1210 W BAY DR NW OLYMPIA, WA 98502	RCRIS-SQG	WAD009262072

EXECUTIVE SUMMARY

HARDEL MUTUAL PLYWOOD CORPORATION
1210 W BAY DR NW
OLYMPIA, WA 98502

UST

N/A

EXECUTIVE SUMMARY

Surrounding Properties:

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the subject property includes a tolerance of -10 feet. Sites with an elevation equal to or higher than the subject property have been differentiated below from sites with an elevation lower than the subject property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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 2 CSCSL sites within approximately 1 mile of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>INDUSTRIAL PETROLEUM DISTRIBUT</i>	<i>1117 W BAY DR NW</i>	<i>1/8 - 1/4 S</i>	<i>6</i>	<i>11</i>
WAREHOUSE ONE PORT	N WASHINGTON / B AVE	1/2 - 1 SE	9	17

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

A review of the UST list, as provided by EDR, and dated 01/14/1999 has revealed that there are 3 UST sites within approximately 0.25 miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
EVERGREEN PLAZA INC.	1433 W BAY DR NW	0 - 1/8 WSW	3	9
RELIABLE STEEL FABRICATORS INC	1218 W BAY DR NW	1/8 - 1/4 S	B4	10
<i>DELSON LUMBER CO</i>	<i>1821 W BAY DR NW</i>	<i>1/8 - 1/4 NNW</i>	<i>C8</i>	<i>16</i>

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

A review of the RCRIS-SQG list, as provided by EDR, and dated 03/01/1999 has revealed that there are 3 RCRIS-SQG sites within approximately 0.25 miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>RELIABLE STEEL FABRICATORS INC</i>	<i>1218 W BAY DR</i>	<i>1/8 - 1/4 S</i>	<i>B5</i>	<i>10</i>
<i>INDUSTRIAL PETROLEUM DISTRIBUT</i>	<i>1117 W BAY DR NW</i>	<i>1/8 - 1/4 S</i>	<i>6</i>	<i>11</i>
<i>OLYMPIA FOREST PRODUCTS</i>	<i>1819 W BAY DR</i>	<i>1/8 - 1/4 NNW</i>	<i>C7</i>	<i>15</i>

EXECUTIVE SUMMARY

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

A review of the WA ICR list, as provided by EDR, has revealed that there is 1 WA ICR site within approximately 0.5 miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>DELSON LUMBER CO</i>	<i>1821 W BAY DR NW</i>	<i>1/8 - 1/4 NNW</i>	<i>C8</i>	<i>16</i>

(Coal Gas) 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 approximately 1 mile of the subject property.

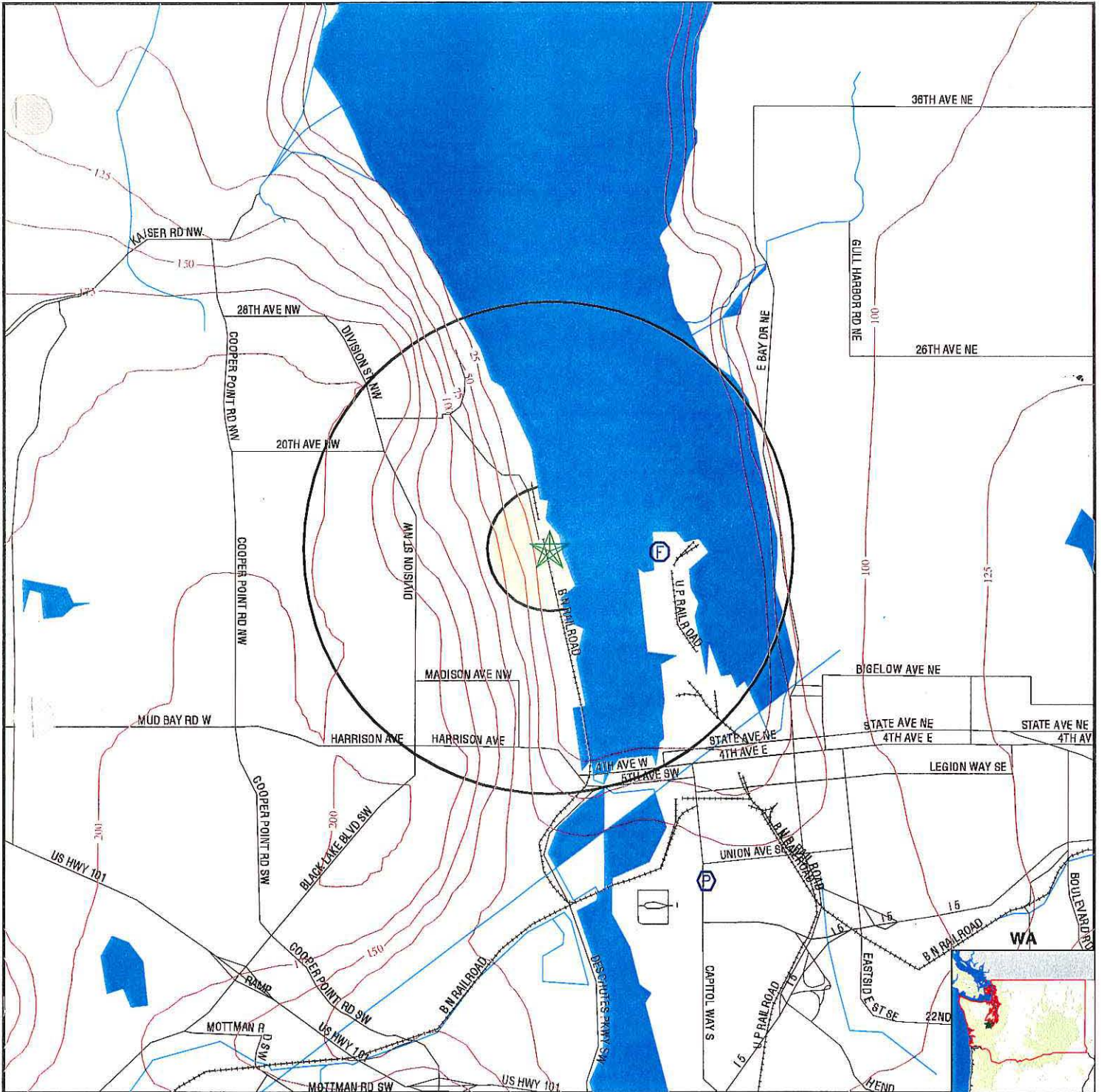
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
OLYMPIA GAS & POWER CO.	101-115 THURSTON AV W.	1/2 - 1 SSE	10	18

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
INTERCITY TRANSIT KEY SHOP	CSCSL
AMERICAN FIBERGLASS	CSCSL
NIELSEN PACIFIC, LTD.	UST,LUST
FORMER MCMAHAN'S FURNITURE	UST,LUST
CITY OF OLYMPIA-MILLER CENTRAL	UST,LUST
MUD BAY EQUIPMENT STORAGE AREA	UST,LUST
HARRISON SHELL/VERBRUGE	UST,LUST
CITY OF TUMWATER PUBLIC WORKS DEPT.	UST,LUST
HOWARD GODAT ASSOC DUMP SITE	RCRIS-SQG.FINDS
HOLROYD COMPANY	WA ICR
CAPITAL PEAK RADIO	WA ICR
THURSTON COUNTY PUBLIC WORKS	WA ICR
CAPITAL COACHMAN	WA ICR
OLYMPIA LINCOLN MERCURY	WA ICR
CITY OF OLYMPIA	WA ICR
FIRESTONE	WA ICR
NORTHWEST DELI MART	WA ICR
CITY OF OLYMPIA - HOLIDAY HILLS	WA ICR
OLYMPIA SCHOOL DISTRICT	WA ICR
OLYMPIA SCHOOL DISTRICT	WA ICR
PORT OF OLYMPIA	WA ICR
VORTAC FACILITY	WA ICR
220 WATER STREET	WA ICR
CAPITOL PEAK COMMUNICATION FACILITY	WA ICR
LES SCHWAB TIRES	WA ICR
WAREHOUSE ONE SITE	WA ICR
US WEST WHITEHALL CO.	WA ICR
OLYMPIA SCHOOL DISTRICT - TRANSPORTATION	WA ICR
TUMWATER SCHOOL DIST.	WA ICR

TOPOGRAPHIC MAP - 375678.3s - Tetra Tech, Inc.



- Major Roads
- Contour Lines
- Waterways
- Earthquake epicenter, Richter 5 or greater
- Closest Federal Well in quadrant
- Closest State Well in quadrant
- Closest Public Water Supply Well
- Closest Hydrogeological Data

<p>TARGET PROPERTY: ADDRESS: Hardel Mutual Plywood CITY/STATE/ZIP: 1210 N.W. West Bay Drive Olympia WA 98502 LAT/LONG: 47.0577 / 122.9128</p>	<p>CUSTOMER: Tetra Tech, Inc. CONTACT: Ben Farrell INQUIRY #: 375678.3s DATE: June 02, 1999 7:51 am</p>
--	--

GEOCHECK VERSION 2.1 SUMMARY

TARGET PROPERTY COORDINATES

Latitude (North): 47.057701 - 47° 3' 27.7"
 Longitude (West): 122.912804 - 122° 54' 46.1"
 Universal Transverse Mercator: Zone 10
 UTM X (Meters): 506622.5
 UTM Y (Meters): 5211361.5

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2447122-A8 TUMWATER, WA

GEOLOGIC AGE IDENTIFICATION†

Geologic Code: Q
 Era: Cenozoic
 System: Quaternary
 Series: Quaternary

ROCK STRATIGRAPHIC UNIT‡

Category: Stratified Sequence

GROUNDWATER FLOW INFORMATION

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

AQUIFLOW™** Search Radius: 2.000 Miles

<u>MAP ID</u>	<u>DISTANCE FROM TP</u>	<u>DIRECTION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported			

General Topographic Gradient at Target Property: General ENE
 General Hydrogeologic Gradient at Target Property: No hydrogeologic data available.
 Site-Specific Hydrogeological Data*:
 Search Radius: 2.0 miles
 Status: Not found

FEDERAL DATABASE WELL INFORMATION

<u>WELL QUADRANT</u>	<u>DISTANCE FROM TP</u>	<u>LITHOLOGY</u>	<u>DEPTH TO WATER TABLE</u>
Eastern	1/4 - 1/2 Mile	Basalt	220 ft.

STATE DATABASE WELL INFORMATION

<u>WELL QUADRANT</u>	<u>DISTANCE FROM TP</u>
NO WELLS FOUND	

† Source: F.G. Schruben, R.E. Arndt and W.J. Bawiec. Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map. USGS Digital Data Series DDS - 11 (1994).
 ‡ U.S. EPA Ground Water Handbook, Vol. I, Ground Water and Contamination, Office of Research and Development EPA/625/6-90/016a, Chapter 4, page 78, September 1990.
 ** EDR AQUIFLOW™ information System of hydrogeologically determined groundwater flow directions at specific locations. See the data pages at the end of this report for a complete description.

GEOCHECK VERSION 2.1 SUMMARY

PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.

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

PWS Name: LEW'S 81ST STREET WATER SYSTEM
OLYMPIA, WA 98506

Location Relative to TP: 1 - 2 Miles South

PWS currently has or has had major violation(s) or enforcement: Yes

AREA RADON INFORMATION

EPA Radon Zone for THURSTON County: 3

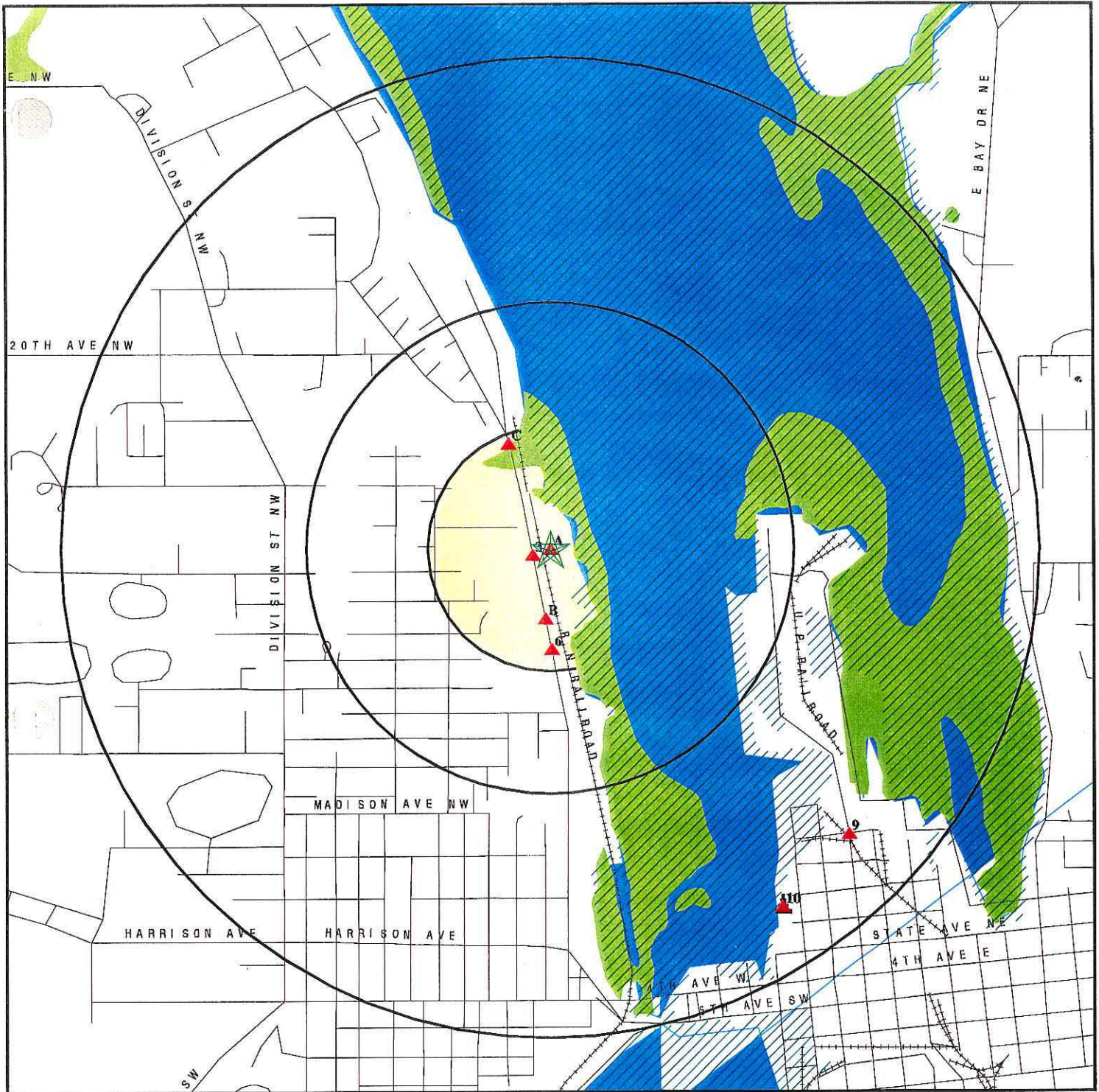
Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Zip Code: 98502

Number of sites tested: 7

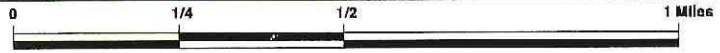
<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	0.086 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.650 pCi/L	100%	0%	0%

OVERVIEW MAP - 375678.3s - Tetra Tech, Inc.



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

- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- Wetlands per National Wetlands Inventory (1994)



TARGET PROPERTY: ADDRESS: CITY/STATE/ZIP: LAT/LONG:	Hardel Mutual Plywood 1210 N.W. West Bay Drive Olympia WA 98502 47.0577 / 122.9128	CUSTOMER: CONTACT: INQUIRY #: DATE:	Tetra Tech, Inc. Ben Farrell 375678.3s June 02, 1999 7:50 am
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DETAIL MAP - 375678.3s - Tetra Tech, Inc.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- ⚡ Sensitive Receptors
- 🚚 National Priority List Sites
- 🗑️ Landfill Sites

- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 Wetlands per National Wetlands Inventory (1994)



TARGET PROPERTY: Hardel Mutual Plywood
ADDRESS: 1210 N.W. West Bay Drive
CITY/STATE/ZIP: Olympia WA 98502
LAT/LONG: 47.0577 / 122.9128

CUSTOMER: Tetra Tech, Inc.
CONTACT: Ben Farrell
INQUIRY #: 375678.3s
DATE: June 02, 1999 7:50 am

MAP FINDINGS SUMMARY SHOWING ALL SITES

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
CSCSL		1.000	0	1	0	1	NR	2
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
UST	X	0.250	1	2	NR	NR	NR	3
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.	X	0.250	0	3	NR	NR	NR	3
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Wa Air Emissions (EMI)		TP	NR	NR	NR	NR	NR	0
WA ICR		0.500	0	1	0	NR	NR	1
Coal Gas		1.000	0	0	0	1	NR	1
MINES		0.250	0	0	NR	NR	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

**MAP FINDINGS SUMMARY SHOWING
ONLY SITES HIGHER THAN OR THE SAME ELEVATION AS TP**

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
CSCSL		1.000	0	1	0	1	NR	2
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
UST	X	0.250	1	2	NR	NR	NR	3
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.	X	0.250	0	3	NR	NR	NR	3
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Wa Air Emissions (EMI)		TP	NR	NR	NR	NR	NR	0
WA ICR		0.500	0	1	0	NR	NR	1
Coal Gas		1.000	0	0	0	1	NR	1
MINES		0.250	0	0	NR	NR	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

A1 HARDEL MUTUAL PLYWOOD
Target 1210 W BAY DR NW
Property OLYMPIA, WA 98502

RCRIS-SQG 1000185974
WAD009262072

RCRIS:
Owner: HARDEL MUTUAL PLYWOOD CORP
(360) 754-6030
Contact: WARREN KRUG
(360) 753-4990
Record Date: 12/31/1997
Classification: Not reported
Used Oil Recyc: No
Violation Status: No violations found

A2 HARDEL MUTUAL PLYWOOD CORPORATION
Target 1210 W BAY DR NW
Property OLYMPIA, WA 98502

UST U003353657
N/A

UST:
Facility ID: 1719
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Status: Closed in Place
Tank Name: 3
Tank Material: Steel-Unprotected
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

3 EVERGREEN PLAZA INC.
WSW 1433 W BAY DR NW
< 1/8 OLYMPIA, WA 98501
202
Higher

UST U003353248
N/A

UST:
Facility ID: 11486
Install Date: 12/31/64
Capacity: Not reported
Status: Removed
Tank Name: 1
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 11486
Install Date: 12/31/64
Capacity: Not reported
Status: Removed
Tank Name: 2
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Database(s)
EPA ID Number

EPA ID Number

EVERGREEN PLAZA INC. (Continued)

U003353248

Facility ID: 11486
Install Date: 12/31/64
Capacity: Not reported
Status: Removed
Tank Name: 3
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 11486
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 4
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

B4
South
1/8-1/4
752
Higher

RELIABLE STEEL FABRICATORS INC.
1218 W BAY DR NW
OLYMPIA, WA 98507

UST

U003355102
N/A

UST:

Facility ID: 6554
Install Date: 12/31/64
Capacity: Not reported
Status: Removed
Tank Name: 1
Tank Material: Steel-Unprotected
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 6554
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 2
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

B5
South
1/8-1/4
768
Higher

RELIABLE STEEL FABRICATORS INC
1218 W BAY DR
OLYMPIA, WA 98502

RCRIS-SQG
FINDS

1000658710
WAD988483624

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

MAP FINDINGS

Database(s)
 EDR ID Number
 EPA ID Number

RELIABLE STEEL FABRICATORS INC (Continued)

1000658710

RCRIS:

Owner: RELIABLE STEEL FABRICATORS INC
 (360) 352-7575

Contact: BART OLSON
 (360) 352-7575

Record Date: 12/31/1996

Classification: Conditionally Exempt Small Quantity Generator

Used Oil Recyc: No

Violation Status: Violation information exist

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

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Other Evaluation	Generator-All Requirements	09/15/1991
	Generator-All Requirements	08/24/1991

6
 South
 1/8-1/4
 1077
 Higher

INDUSTRIAL PETROLEUM DISTRIBUTORS
 1117 W BAY DR NW
 OLYMPIA, WA 98502

RCRIS-SQG 1001092000
 FINDS WAR000002980
 CSCSL

RCRIS:

Owner: INDUSTRIAL PETROLEUM DIST
 (360) 555-1212

Contact: NICKIE RUSHING
 (360) 407-6342

Record Date: 06/19/1995

Classification: Not reported

Used Oil Recyc: No

Violation Status: Violation information exist

There are 5 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Other Evaluation	Generator-All Requirements	12/14/1998
	Generator-All Requirements	
	Generator-All Requirements	
Other Evaluation	Generator-All Requirements	12/14/1998
	Generator-All Requirements	
	Generator-All Requirements	
Other Evaluation	Generator-All Requirements	12/14/1998
	Generator-All Requirements	
	Generator-All Requirements	

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s)
 EDR ID Number
 EPA ID Number

INDUSTRIAL PETROLEUM DISTRIBUTORS (Continued)

1001092000

Other Evaluation	Generator-All Requirements	12/14/1998
	Generator-All Requirements	
	Generator-All Requirements	
	Generator-All Requirements	
	Generator-All Requirements	10/21/1998

SHWS:

Facility ID: 1436
 Facility Status: AWAITING RA
 Rank: 1
 Flag: STATE\HSL
 Responsible Unit: SOUTHWEST
 Latitude: 47 3 17.780000
 Longitude: 122 54 53.140000

Ecology Site Status relative to the MTCA cleanup process:
 - Ranked, Awaiting Remedial Action (RA)

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):
 1 - Greatest assessed risk to human health and to the environment

Affected Media: Groundwater
 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

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):	Suspected to be present
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 ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

INDUSTRIAL PETROLEUM DISTRIBUTORS (Continued)

1001092000

Facility ID: 1436
Facility Status: Not reported
Rank: Not reported
Flag: STATE
Responsible Unit: SOUTHWEST
Latitude: 47 3 17.780000
Longitude: 122 54 53.140000
Ecology Site Status relative to the MTCA cleanup process:
Ranked, Awaiting Remedial Action (RA)
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):
1 - Greatest assessed risk to human health and to the environment
Affected Media: Sediment
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
Base/Neutral/Acid Organics: Suspected to be present
Halogenated Organic Compounds: Suspected to be present
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: 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

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Databases) EDR ID Number
EPA ID Number

INDUSTRIAL PETROLEUM DISTRIBUTORS (Continued)

1001092000

Facility ID: 1436
Facility Status: Not reported
Rank: Not reported
Flag: STATE
Responsible Unit: SOUTHWEST
Latitude: 47 3 17.780000
Longitude: 122 54 53.140000
Ecology Site Status relative to the MTCA cleanup process:
Ranked, Awaiting Remedial Action (RA)
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):
1 - Greatest assessed risk to human health and to the environment
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)
Base/Neutral/Acid Organics: Confirmed above MTCA cleanup levels
Halogenated Organic Compounds: Suspected to be present
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): 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 ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EPA ID Number
EDR ID Number

INDUSTRIAL PETROLEUM DISTRIBUTORS (Continued)

1001092000

Facility ID: 1436
Facility Status: Not reported
Rank: Not reported
Flag: STATE
Responsible Unit: SOUTHWEST
Latitude: 47 3 17.780000
Longitude: 122 54 53.140000
Ecology Site Status relative to the MTCA cleanup process:
Ranked, Awaiting Remedial Action (RA)
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):
1 - Greatest assessed risk to human health and to the environment
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
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Suspected to be present
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: 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

C7
NNW
1/8-1/4
1208
Higher

OLYMPIA FOREST PRODUCTS
1819 W BAY DR
OLYMPIA, WA 98501

RCRIS-SQG 1000302313
FINDS WAD151167988

RCRIS:
Owner: OLYMPIA FOREST PRODUCTS
(360) 555-1212
Contact: PAT BUCKNELL
(360) 456-1525
Record Date: Not reported
Classification: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

OLYMPIA FOREST PRODUCTS (Continued)

1000302313

Used Oil Recyc: No

Violation Status: No violations found

C8
NNW
1/8-1/4
1218
Higher

DELSON LUMBER CO
1821 W BAY DR NW
OLYMPIA, WA 98502

UST
WA ICR

U003354078
N/A

WA ICR:

Date Ecology Received Report: 06/15/1995
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 94-01
County Code: 34

Date Ecology Received Report: 10/17/1994
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 93-39
County Code: 34

Date Ecology Received Report: 03/26/1997
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: South Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-49
County Code: 34

UST:

Facility ID: 3173
Install Date: 12/31/64
Capacity: Not reported
Status: REMOVED
Tank Name: 2
Tank Material: Not reported
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 3173
Install Date: 7/1/82
Capacity: Not reported
Status: REMOVED
Tank Name: 1
Tank Material: Not reported
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

9
 SE
 1/2-1
 4467
 Higher

WAREHOUSE ONE PORT
N WASHINGTON / B AVE
OLYMPIA, WA 98501

CSCSL S100837074
 N/A

SHWS:

Facility ID: 1429
 Facility Status: Not reported
 Rank: Not reported
 Flag: STATE
 Responsible Unit: SOUTHWEST
 Latitude: 47 2 56.470000
 Longitude: 122 54 3.420000
 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):
 Not reported
 Affected Media: Groundwater
 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)
 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 metals: Not reported
 Polychlorinated biPhenyls (PCBs): Not reported
 Pesticides: Not reported
 Petroleum Products: Confirmed above MTCA cleanup levels
 Phenolic Compounds: Not reported
 Non-Halogenated Solvents: Not reported
 Dioxin: Not reported
 Polynuclear Aromatic Hydrocarbons (PAH): Not reported
 Reactive Wastes: Not reported
 Corrosive Wastes: Not reported
 Radioactive Wastes: Not reported
 Asbestos: Not reported
 Conventional Contaminants, Organic: Not reported
 Conventional Contaminants, Inorganic: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

WAREHOUSE ONE PORT (Continued)

S100837074

Facility ID: 1429
 Facility Status: Not reported
 Rank: Not reported
 Flag: STATE
 Responsible Unit: SOUTHWEST
 Latitude: 47 2 56.470000
 Longitude: 122 54 3.420000
 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):
 Not reported
 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)
 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

10
 SSE
 1/2-1
 4611
 Higher

OLYMPIA GAS & POWER CO.
 101-115 THURSTON AV W. OR 315-319 N. CAPITOL WAY
 OLYMPIA, WA 98501

Coal Gas G000001225
 N/A

COAL GAS SITE DESCRIPTION:

1908, Gas & Power Co. occupies the northern half of the block formed by Thurston Av. W., N. Capital Way, Olympia Av.W. and N. Columbia.

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ORPH SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
LACEY	S103504765	HOLROYD COMPANY	ROUTE 12 PACIFIC HWY SE	98502	WA ICR	
LACEY	U003353017	NIELSEN PACIFIC, LTD	RT 12 PACIFIC HY SE	98502	UST, LUST	10526
OLYMPIA	S103505788	CAPITAL PEAK RADIO	NE 1/4 SE 1/4 SECTION 11, T17N, R4W	98502	WA ICR	
OLYMPIA	U003354419	FORMER MCMAHAN'S FURNITURE	705 N 4TH AVE	98501	UST, LUST	415007
OLYMPIA	S103510135	THURSTON COUNTY PUBLIC WORKS	BLVD. ROAD MAINTENANCE FACILITY	98501	WA ICR	
OLYMPIA	S102845962	INTERCITY TRANSIT KEY SHOP	CAPITOL / STATE ST	98501	CSCSL	19684117
OLYMPIA	S103505786	CAPITAL COACHMAN	2220 SW CARRIAGE DR.	98501	WA ICR	
OLYMPIA	S103508487	OLYMPIA LINCOLN MERCURY	2201 CARRIAGE SW	98502	WA ICR	
OLYMPIA	S103504403	CITY OF OLYMPIA	1920 N. CENTRAL	98501	WA ICR	
OLYMPIA	U003355175	CITY OF OLYMPIA-MILLER CENTRAL	1920 N CENTRAL	98501	UST, LUST	6837
OLYMPIA	U003356034	MUD BAY EQUIPMENT STORAGE AREA	DELPHI RD SW 300 FT OFF MUD BAY RD	98501	UST, LUST	97755
OLYMPIA	S103504084	FIRESTONE	2800 W. HARRISON	98502	WA ICR	
OLYMPIA	S103508428	NORTHWEST DELI MART	2400 W. HARRISON	98502	WA ICR	
OLYMPIA	U003354317	HARRISON SHELL/VERBRUGE	2006 WEST HARRISON ST	98502	UST, LUST	3957
OLYMPIA	S103504315	CITY OF OLYMPIA - HOLIDAY HILLS	HOLIDAY HILLS SEWER PUMP ST.	98501	WA ICR	
OLYMPIA	S103502860	OLYMPIA SCHOOL DISTRICT	1113 E. LEGION WAY	98501	WA ICR	
OLYMPIA	S103508489	OLYMPIA SCHOOL DISTRICT	1113 E. LEGION WAY	98501	WA ICR	
OLYMPIA	S103504316	PORT OF OLYMPIA	7259 OLD HWY 99	98501	WA ICR	
OLYMPIA	S103508493	VORTAC FACILITY	OLYMPIA AIRPORT	98502	WA ICR	
OLYMPIA	S103504501	220 WATER STREET	207 W. OLYMPIC AVE.	98501	WA ICR	
OLYMPIA	S103505789	CAPITOL PEAK COMMUNICATION FACILITY	T17N, R5W, SECTION 11	98502	WA ICR	
OLYMPIA	S103508087	LES SCHWAB TIRES	210 W. STATE ST.	98501	WA ICR	
OLYMPIA	1000155012	HOWARD GODAT ASSOC DUMP SITE	400 FT W OF N SIDE 101 & BLACK	98502	RCRIS-SQG, FINDS	
OLYMPIA	S103511086	WAREHOUSE ONE SITE	N. WASHINGTON AND "B" AVE.	98501	WA ICR	
OLYMPIA	S103512406	US WEST WHITEHALL CO.	714 S. WASHINGTON	98501	WA ICR	
OLYMPIA	S103508490	OLYMPIA SCHOOL DISTRICT - TRANSPORTATION	1914 S. WILSON	98501	WA ICR	
TUMWATER	U003354662	CITY OF TUMWATER PUBLIC WORKS DEPT.	517 WEST BATES	98502	UST, LUST	4872
TUMWATER	S103504982	TUMWATER SCHOOL DIST.	600 W. ISRAEL ROAD	98501	WA ICR	
TUMWATER	S102507289	AMERICAN FIBERGLASS	8904 KIMMIE RD	98502	CSCSL	

**GEOCHECK VERSION 2.1 ADDENDUM
FEDERAL DATABASE WELL INFORMATION**

Well Closest to Target Property (Eastern Quadrant)

BASIC WELL DATA

Site ID:	470327122541201	Distance from TP:	1/4 - 1/2 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Not Reported
Altitude:	1235.00 ft.	State:	Not Reported
Well Depth:	542.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	220.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	09041916	Prim. Use of Water:	Irrigation

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Cenozoic-Tertiary-Miocene
Principal Lithology of Unit:	Basalt
Further Description:	Not Reported

WATER LEVEL VARIABILITY

Water Level:	220.00 ft.	Water Level:	165.00 ft.	Water Level:	215.00 ft.	Water Level:	186.97 ft.
Date Measured:	09/04/16	Date Measured:	08/11/49	Date Measured:	10/28/53	Date Measured:	06/27/56

GEOCHECK VERSION 2.1

PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.

PWS SUMMARY:

PWS ID:	WA5360490	PWS Status:	Active	Distance from TP:	1 - 2 Miles
Date Initiated:	Not Reported	Date Deactivated:	Not Reported	Dir relative to TP:	South
PWS Name:	LEW'S 81ST STREET WATER SYSTEM OLYMPIA, WA 98506				

Addressee / Facility: Not Reported

Facility Latitude:	47 02 17	Facility Longitude:	122 53 57
City Served:	Not Reported	Population Served:	Under 101 Persons
Treatment Class:	Treated		

PWS currently has or has had major violation(s) or enforcement: Yes

VIOLATIONS INFORMATION:

Violation ID:	9325666	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	01/01/93	Vio. end Date:	01/31/93	Vio. Period:	1 Month
Num of required Samples:	Not Reported	Number of Samples Taken:	Not Reported		
Analysis Result:	Not Reported	Maximum Contaminant Level:	Not Reported		
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Routine Major (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	013193				

ENFORCEMENT INFORMATION:

System Name:	LEWS 81ST STREET - 226				
Violation Type:	Max Contaminant Level, Monthly (TCR)				
Contaminant:	COLIFORM (TCR)				
Compliance Period:	1995-06-01 - 1995-06-30	Analytical Value:	00000000.00		
Violation ID:	9550313	Enforcement ID:	9500046		
Enforcement Date:	1995-06-30	Enf. Action:	State Violation/Reminder Notice		
System Name:	LEWS 81ST STREET - 226				
Violation Type:	Max Contaminant Level, Monthly (TCR)				
Contaminant:	COLIFORM (TCR)				
Compliance Period:	1995-10-01 - 1995-10-31	Analytical Value:	00000000.00		
Violation ID:	9601437	Enforcement ID:	9600050		
Enforcement Date:	1995-10-31	Enf. Action:	State Violation/Reminder Notice		
System Name:	LEWS 81ST STREET - 226				
Violation Type:	Monitoring, Repeat Major (TCR)				
Contaminant:	COLIFORM (TCR)				
Compliance Period:	1995-10-01 - 1995-10-31	Analytical Value:	00000000.00		
Violation ID:	9601436	Enforcement ID:	9600050		
Enforcement Date:	1995-10-31	Enf. Action:	State Violation/Reminder Notice		
System Name:	LEWS 81ST STREET - 226				
Violation Type:	Monitoring, Routine Major (TCR)				
Contaminant:	COLIFORM (TCR)				
Compliance Period:	1995-11-01 - 1995-11-30	Analytical Value:	00000000.00		
Violation ID:	9601435	Enforcement ID:	9600054		
Enforcement Date:	1995-11-30	Enf. Action:	State Violation/Reminder Notice		

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 RECORDS:

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: 11/10/98

Date Made Active at EDR: 01/29/99

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/29/98

Elapsed ASTM days: 31

Date of Last EDR Contact: 03/03/99

ERNS: Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

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

Date of Government Version: 12/31/98

Date Made Active at EDR: 01/18/99

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 01/13/99

Elapsed ASTM days: 5

Date of Last EDR Contact: 01/04/99

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).

Date of Government Version: 01/19/99

Date Made Active at EDR: 02/19/99

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/08/99

Elapsed ASTM days: 11

Date of Last EDR Contact: 02/08/99

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 03/01/99

Date Made Active at EDR: 05/07/99

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/08/99

Elapsed ASTM days: 29

Date of Last EDR Contact: 03/31/99

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/99

Date Made Active at EDR: 04/16/99

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/17/99

Elapsed ASTM days: 30

Date of Last EDR Contact: 03/16/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDERAL NON-ASTM 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: 12/31/95

Database Release Frequency: Biennially

Date of Last EDR Contact: 03/25/99

Date of Next Scheduled EDR Contact: 06/21/99

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: Varies

Database Release Frequency: Varies

Date of Last EDR Contact: Varies

Date of Next Scheduled EDR Contact: N/A

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: 01/08/99

Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/16/99

Date of Next Scheduled EDR Contact: 07/12/99

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4526

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

Date of Government Version: 12/31/97

Database Release Frequency: Annually

Date of Last EDR Contact: 03/24/99

Date of Next Scheduled EDR Contact: 04/26/99

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: 12/08/98

Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/02/99

Date of Next Scheduled EDR Contact: 05/31/99

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.

Date of Government Version: 10/15/91

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 02/22/98

Date of Next Scheduled EDR Contact: 05/24/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-260-3936

PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/22/97

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/05/99

Date of Next Scheduled EDR Contact: 05/17/99

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: 03/15/99

Date of Next Scheduled EDR Contact: 06/14/99

ROD: Records Of Decision

Source: NTIS

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: 01/31/99

Database Release Frequency: Annually

Date of Last EDR Contact: 04/19/99

Date of Next Scheduled EDR Contact: 07/19/99

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: 12/31/95

Database Release Frequency: Annually

Date of Last EDR Contact: 04/01/99

Date of Next Scheduled EDR Contact: 06/28/99

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-1444

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: 12/31/94

Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 04/26/99

Date of Next Scheduled EDR Contact: 07/26/99

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959

Date of Government Version: 08/01/98

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/08/99

Date of Next Scheduled EDR Contact: 07/05/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF WASHINGTON ASTM RECORDS:

HSL: Hazardous Sites List

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

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

Date of Government Version: 02/18/99
Date Made Active at EDR: 04/02/99
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/03/99
Elapsed ASTM days: 30
Date of Last EDR Contact: 03/30/99

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: 01/14/99
Date Made Active at EDR: 03/01/99
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/01/99
Elapsed ASTM days: 28
Date of Last EDR Contact: 02/01/99

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: 11/23/98
Date Made Active at EDR: 01/26/99
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/23/98
Elapsed ASTM days: 34
Date of Last EDR Contact: 02/26/99

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: 07/01/98
Date Made Active at EDR: 12/31/98
Database Release Frequency: Annually

Date of Data Arrival at EDR: 10/14/98
Elapsed ASTM days: 78
Date of Last EDR Contact: 04/12/99

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: 01/14/99
Date Made Active at EDR: 03/03/99
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/01/99
Elapsed ASTM days: 30
Date of Last EDR Contact: 02/01/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF WASHINGTON NON-ASTM RECORDS:

AIR EMISSIONS: Washington Emissions Data System

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

Date of Government Version: 12/31/96
Database Release Frequency: Annually

Date of Last EDR Contact: 04/26/99
Date of Next Scheduled EDR Contact: 04/26/99

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: 02/19/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/26/99
Date of Next Scheduled EDR Contact: 07/26/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WASHINGTON COUNTY RECORDS

SEATTLE/KING COUNTY:

Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project

Source: Department of Public Health

Telephone: 206-296-4785

This report presents the Seattle-King County Health Department's follow-up investigation of two city owned and four county owned abandoned landfills which was conducted from February to December 1986.

Date of Government Version: 12/31/86

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 08/14/95

Date of Next Scheduled EDR Contact: N/A

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

SNOHOMISH COUNTY:

Solid Waste Sites of Record at Snohomish Health District

Source: Snohomish Health District

Telephone: 206-339-5250

Date of Government Version: 12/31/98

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 04/26/99

Date of Next Scheduled EDR Contact: 07/26/99

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: 04/15/93

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 01/11/95

Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Historical and 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.

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

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

DELISTED NPL: NPL 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: 01/19/99
Date Made Active at EDR: 02/19/99
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/08/99
Elapsed ASTM days: 11
Date of Last EDR Contact: 02/08/99

NFRAP: 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.

Date of Government Version: 01/26/99
Date Made Active at EDR: 04/02/99
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/03/99
Elapsed ASTM days: 30
Date of Last EDR Contact: 03/03/99

PWS: Public Water Systems

Source: EPA/Office of Drinking Water
Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water
Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SWDIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1998 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 March 1997 from the U.S. Fish and Wildlife Service.

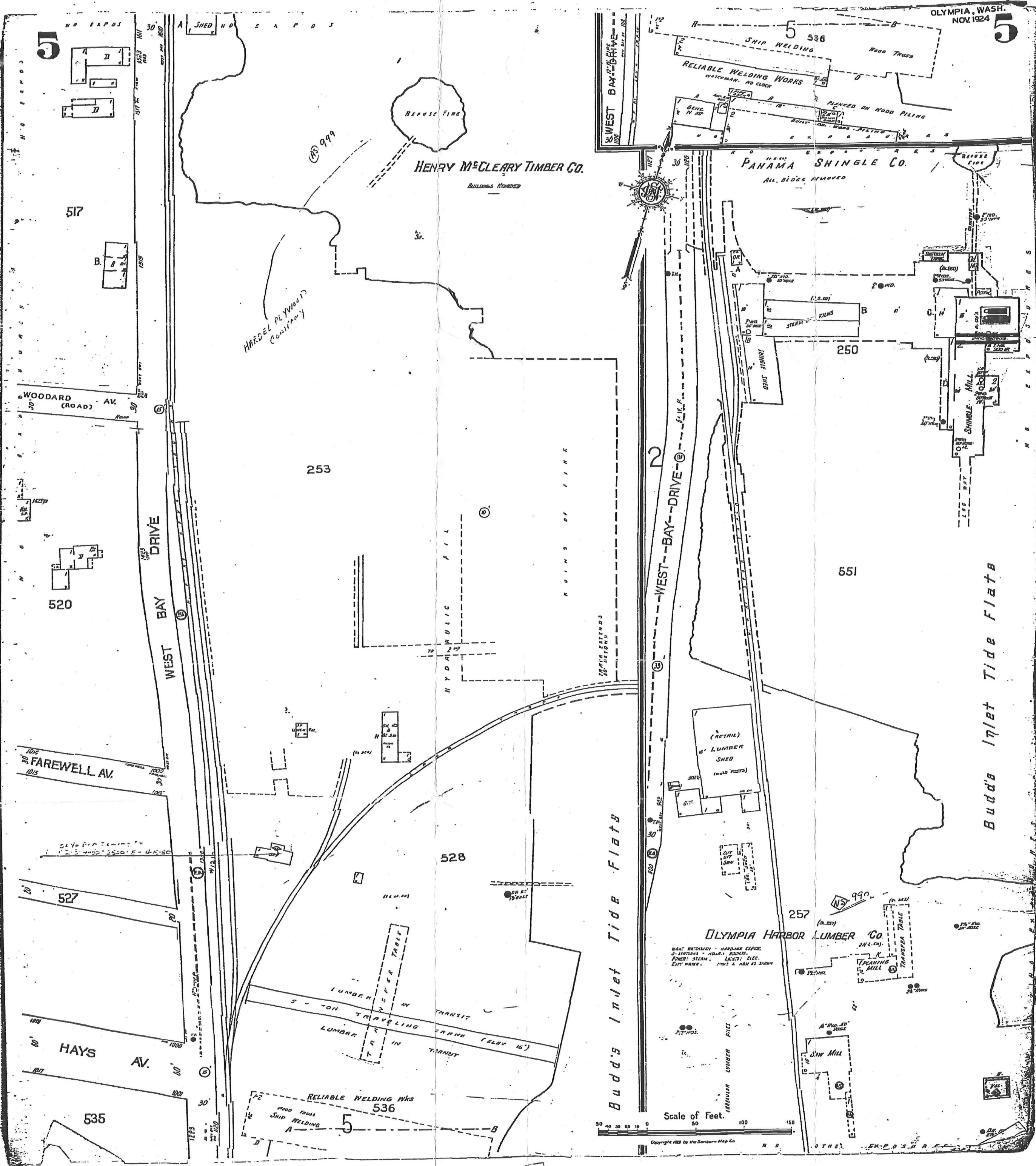
Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Water Dams: National Inventory of Dams
Source: Federal Emergency Management Agency
Telephone: 202-646-2801
National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.

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

APPENDIX B

SANBORN FIRE INSURANCE MAPS

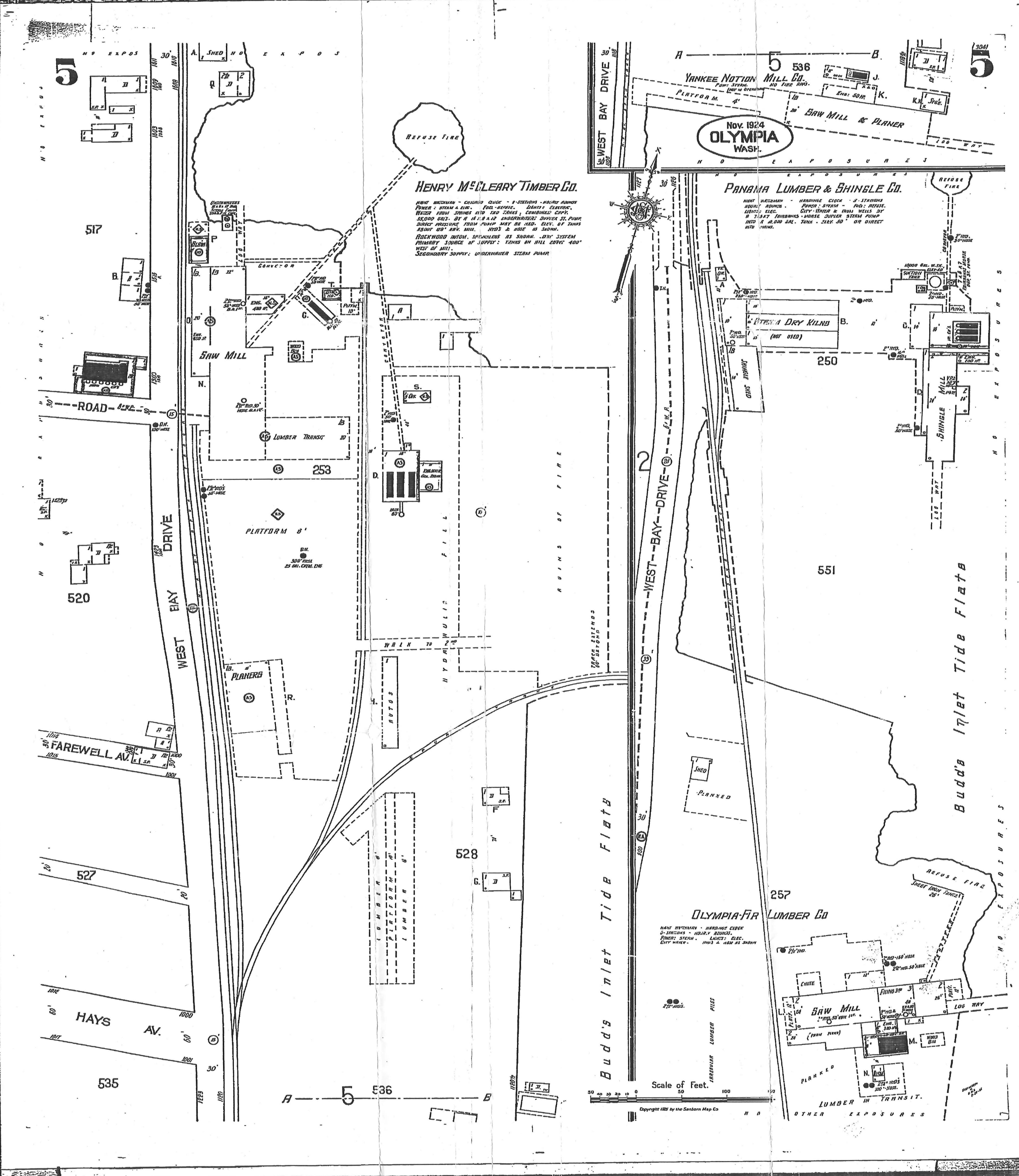


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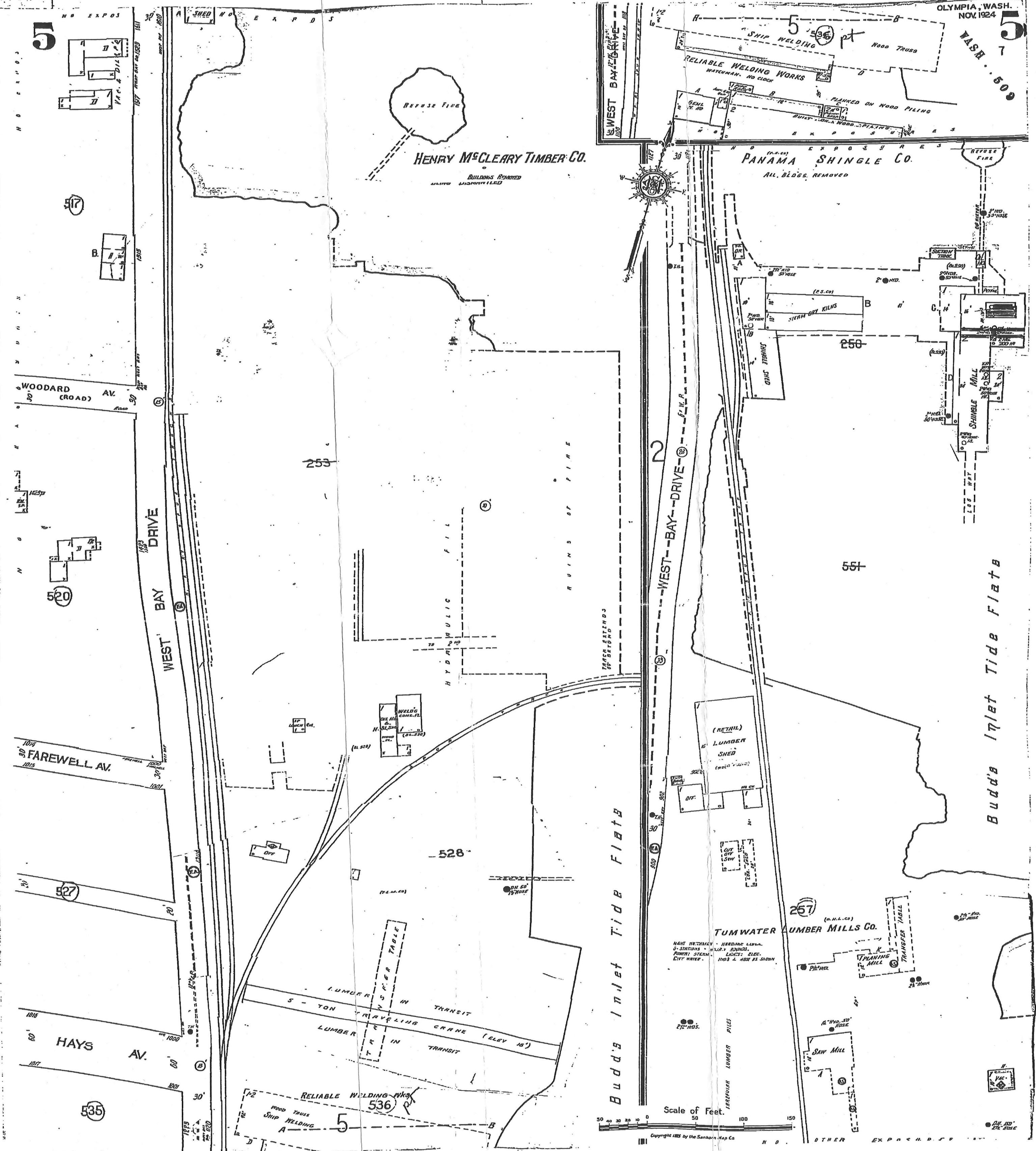
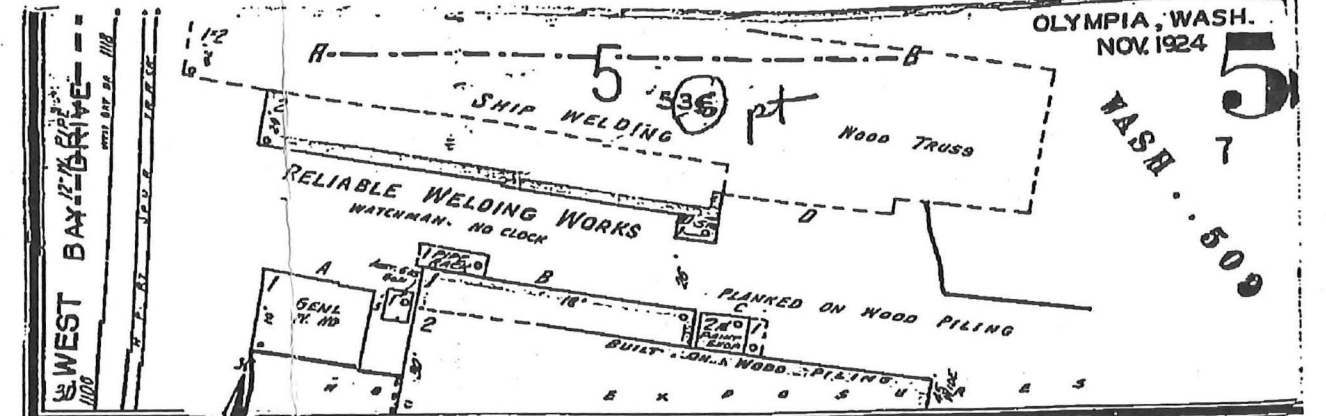
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5

5
BASE 509

HENRY McCLEARY TIMBER CO.
BUILDINGS FORMED
AND UNSHIPPED

PANAMA SHINGLE CO.
ALL BLDGS. REMOVED

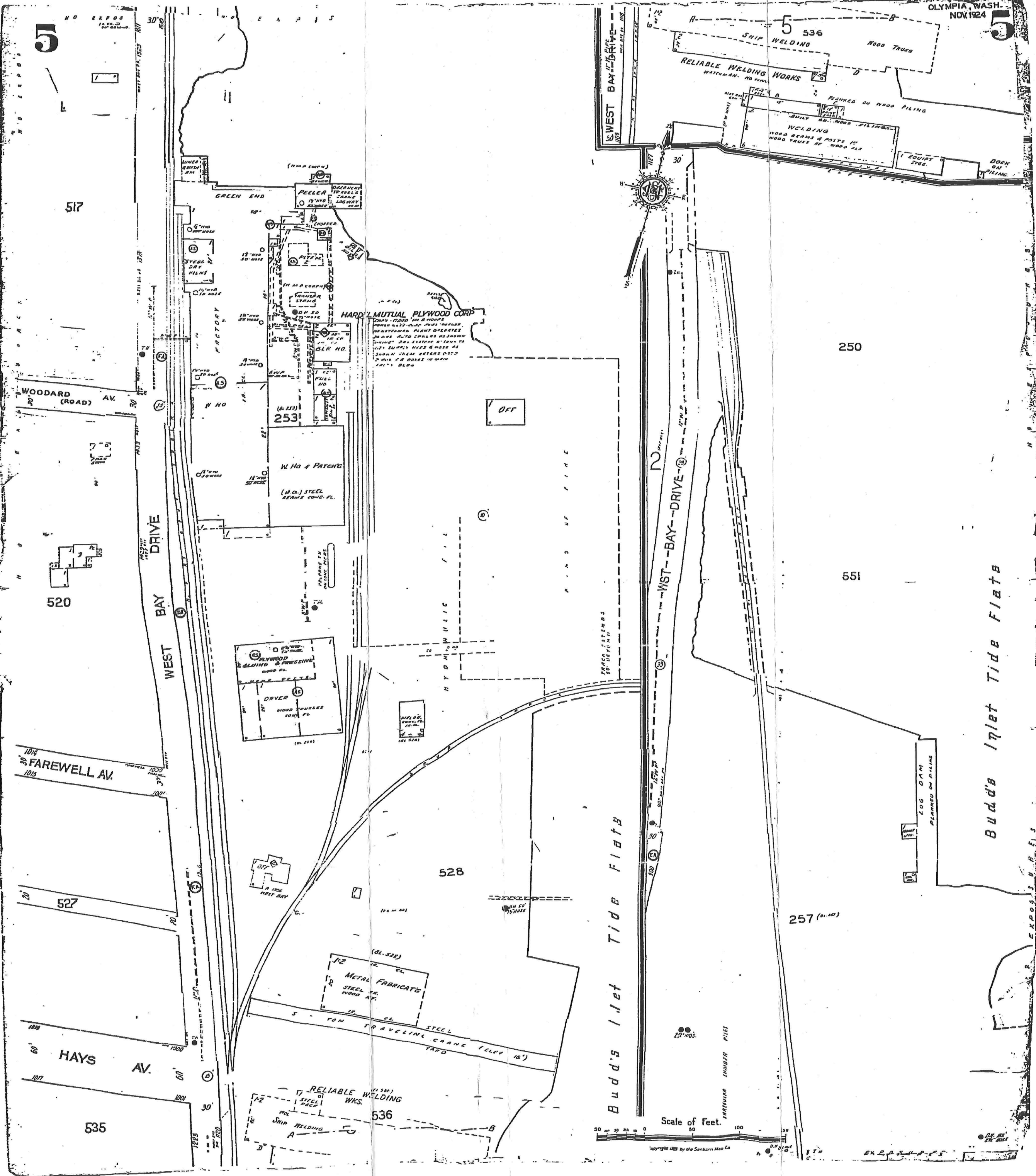


Scale of Feet
0 50 100 150

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APPENDIX C

ECOLOGY SEDIMENT DATA

Table 6: Comparison of Analytical Results to Ecology Sediment Management Standards (WAC 173-204).

Location Station Sample No. 24-	Midwest Site						Mean of Three Highest	Reference Station 8087	SMS	
	MW-1 8080	MW-2 8081	MW-3 8082	MW-4 8083	MW-5 8085	MW-6 8086			SQS	CSL
Conventionals (%)										
TOC @ 70°C	3.4	4.4	3.5	3.5	3.8	3.6	3.9	2.5	-	-
Metals (mg/kg, dry)										
Arsenic	8.3	9.4	8.6	9.3	7.5	8.6	9.1	8.2	57	93
Cadmium	0.75	1.4	1.8	1.6	1.6	1.2	1.7	0.65	5.1	6.7
Chromium	36	37	35	37	32	35	37	42	260	270
Copper	70	71	70	72	63	72	72	40	390	390
Lead	15	19	18	20	17	17	19	14	450	530
Mercury	0.18	0.17	0.16	0.18	0.16	0.17	0.18	0.11	0.41	0.59
Zinc	80	92	86	90	81	87	90	77	410	960
Organics (mg/kg, organic carbon)										
Acenaphthene	0.24	j 0.44	j 0.29	j 2.9	u 3.2	u 0.31	j 0.35	j 3.7	u 16	57
Acenaphthylene	3.2	u 0.5	j 0.4	j 0.5	j 3.2	u 0.42	j 0.47	j 0.3	j 66	66
Naphthalene	0.74	j 1.9	j 1.3	j 1.2	j 0.63	j 1.0	j 1.5	j 0.92	j 99	170
Fluorene	0.44	j 0.54	j 0.6	j 0.48	j 0.29	j 0.53	j 0.56	j 0.15	j 23	79
Anthracene	1.0	j 1.0	j 1.5	j 1.7	j 0.97	j 1.6	j 1.6	j 0.44	j 220	1200
Phenanthrene	1.6	j 2.5	2.5	j 2.8	j 1.7	j 2.8	j 2.7	j 1.5	j 100	480
Sum LPAH	4.1	j 7.0	j 6.6	j 6.7	j 3.7	j 6.7	j 6.8	j 3.3	j 370	780
Fluoranthene	5.0	5.9	5.7	8.7	4.5	6.1	6.9	3.2	j 160	1200
Benzo(a)anthracene	2.1	j 2.1	j 2.9	u 4.1	j 2.1	j 3.3	u 2.6	j 3.7	u 110	270
Chrysene	2.5	j 2.3	3.1	2.3	2.5	j 4.7	3.4	j 1.7	j 110	460
Pyrene	5.3	6.6	8.0	10	5.5	8.6	8.9	2.8	j 1000	1400
Benzo(a)fluoranthene	5.3	j 5.0	j 7.7	j 8.7	j 5.3	j 8.3	8.2	j 4.0	j 230	450
Benzo(a)pyrene	2.1	j 1.6	j 2.3	j 3	j 1.8	j 3.3	2.9	j 1.0	j 99	210
Dibenzo(a,h)anthracene	5.9	j 4.3	j 6	u 5.7	j 5.8	j 6.1	5.9	7.2	u 12	33
Indeno(1,2,3-cd)pyrene	6.2	j 5.0	j 6.6	j 6.9	j 6.3	j 6.9	6.8	j 7.2	j 34	88
Benzo(g,h,i)perylene	2.9	j 2.7	3.1	3.8	2.9	j 3.6	3.5	3.4	j 31	78
Sum HPAH	38	j 36	j 37	j 53	j 37	j 47	45	j 24	j 960	5300
2-Methylnaphthalene	0.35	j 0.5	j 0.54	j 0.5	j 0.32	j 0.44	j 0.51	j 0.36	j 38	64
Dibenzofuran	0.38	j 0.54	j 0.49	j 0.48	j 0.26	j 0.5	j 0.51	j 0.29	j 15	58
Di-n-butyl phthalate	41	2.3	uj 2.9	uj 31	j 42	89	57	8.4	u 220	1700
Butylbenzyl phthalate	2.9	u 12	u 15	u 0.77	j 16	u 1.1	-	18	u 4.9	64
Organics (ug/kg, dry)										
2-Methylphenol	<u>110</u>	u 100	u 100	u 2.7	j 120	u 120	-	92	u 63	63
4-Methylphenol	64	j 160	63	j 53	j 76	j 210	150	j 92	u 670	670
Polychlorinated Biphenyls (mg/kg, organic carbon)										
Total PCBs	0.44	0.59	2.9	u 0.67	0.5	3.1	u 0.59	3.5	u 12	65

j=Estimated concentration

uj=Estimated detection limit

u=Not detected at detection limit shown

SMS- SQS= Sediment Quality Standard; CSL= Cleanup Screening Level

Underlined values= Detection limit exceeded associated SQS

Table 6 (cont): Comparison of Analytical Results to Ecology Sediment Management Standards and Other Applicable Screening Levels.

Location Station Sample No. 24-	Hardel Plywood		Fiddlehead	Port Dock	West Bay Marina		Indian Moxlie	Reference	SMS	
	Hard1 8088	Hard2 8090	Fido1 8091	PD-1 8092	WB-1 8093	WB-2 8095	IM-1 8096	Station 8087	SQS	CSL
Conventionals (%)										
TOC @ 70°C	7.6	5.5	4.1	4.3	6.2	6.3	1.8	2.5	-	-
Metals (mg/kg, dry)										
Arsenic	9.2	8.8	5.2	7.8	10	10	5	8.2	57	93
Cadmium	0.86	2.2	1.5	1.7	2.5	2.1	0.5 u	0.65	5.1	6.7
Chromium	34	33	31	34	34	32	30	42	260	270
Copper	81	62	89	75	170	130	25	40	390	390
Lead	63	33	72	17	24	26	37	14	450	530
Mercury	0.19	0.26	0.24	0.2	0.25	0.27	0.067	0.11	0.41	0.59
Zinc	120	130	260	100	130	110	88	77	410	960
Organics (mg/kg, organic carbon)										
Acenaphthene	0.55 j	1.1	1.1 j	2.1 j	0.5 j	0.62 j	4.2	3.7 u	16	57
Acenaphthylene	0.34 j	0.51 j	2.7	0.72 j	0.77 j	0.79 j	2.2 j	0.3 j	66	66
Naphthalene	2.5	2.5	1.0 j	1.2 j	1.0	1.7	2.2 j	0.92 j	99	170
Fluorene	0.7	1.2	2.1	2.6 j	0.77 j	0.74 j	6.1	0.15 j	23	79
Anthracene	0.86	2.5	9.5	4.9	2.4	2.2	16	0.44 j	220	1200
Phenanthrene	3.8	7.3	13	9.3	3.9	3.8	110	1.5 j	100	480
Sum LPAH	8.8 j	15 j	29 j	21 j	9.4 j	10 j	140 j	3.3 j	370	780
Fluoranthene	5.3	14	130	22	13	12	190	3.2 j	160	1200
Benzo(a)anthracene	0.58 u	5.8	27	12	5.3	4.6	44	3.7 u	110	270
Chrysene	2.0	6.9	54	13	9.5	8.9	67	1.7 j	110	460
Pyrene	5.1	15	100	28	16	19	140	2.8 j	1000	1400
Benzo(a)fluoranthene	2.8	12	51	20	13	13	89	4.0 j	230	450
Benzo(a)pyrene	1.2	6.2	15	7.4	4.5	4.4	43	1.0 j	99	210
Dibenzo(a,h)anthracene	1.2	2.4	3.4 u	6	2.1	2.2	12	7.2 u	12	33
Indeno(1,2,3-cd)pyrene	1.7 j	4.9	11	8.1	3.9 j	3.8 j	32	7.2 j	34	88
Benzo(g,h,i)perylene	1.2	3.8	8.8	4.4	2.7	2.9	26	3.4 j	31	78
Sum HPAH	21 j	71	410	120	71 j	71 j	670	24 j	960	5300
2-Methylnaphthalene	0.95	0.98	0.9 j	0.74 j	0.5 j	0.59 j	1.4 j	0.36 j	38	64
Dibenzofuran	0.99	0.75 j	1.0 j	2.0 j	0.69 j	0.83	3.3	0.29 j	15	58
1,2-Dichlorobenzene	0.33 j	0.78 u	1.7 u	<u>3.0</u>	0.82 u	0.81 u	<u>2.9</u>	<u>3.7</u>	2.3	2.3
1,4-Dichlorobenzene	0.58 u	0.78 u	1.2 j	3.0 u	0.82 u	0.81 u	2.9 u	<u>3.7</u>	3.1	9.0
Dimethyl phthalate	0.58 u	0.78 u	5.6	3 u	0.87	2.5	1.0 j	3.7 u	53	53
Di-n-butyl phthalate	13	2.4 uj	16 uj	70	1.9 uj	3.3 uj	3.3 uj	8.4 u	220	1700
Di-n-octyl phthalate	1.2	1.4 j	6.1	6.0 u	1.6 u	1.6 u	9.4	7.2 u	58	4500
Butylbenzyl phthalate	0.74 j	1.4 j	8.5 j	3.0 u	4.2 u	<u>12</u>	14	<u>18</u>	4.9	64
Bis(2EH)phthalate	6.4	25	160 j	10 uj	5.5 uj	5.7 uj	83	4.0 uj	47	78
Organics (ug/kg, dry)										
Phenol	60 uj	41 uj	39 uj	52 uj	150 uj	120 uj	27 uj	13 uj	420	1200
2-Methylphenol	14	4.5	1.8 j	7.8 u	51 u	51 u	2.0 j	4.9 uj	63	63
4-Methylphenol	250	120 j	110	65	120	140	22	11 uj	670	670
2,4-Dimethylphenol	8.2	4.8	4.2	7.8 u	<u>51</u>	<u>51</u>	2.4 u	4.0	29	29
Pentachlorophenol	87 j	86 j	95 j	110 j	130 j	260 uj	57 j	69 j	360	690
Polychlorinated Biphenyls (mg/kg, organic carbon)										
Total PCBs			3.8	4.2 u	-	-	3.4 u	5.3 u	12	65
Tributyltin (ugTBT/kg)										
Tributyltin	-	-	250 j	-	1300 j	1100 j	-	4.5 j	73*	-

-= Not analyzed

j=Estimated concentration

uj=Estimated detection limit

u=Not detected at detection limit shown

Bold values exceeded SMS= SQS- Sediment Quality Standards; CSL- Cleanup Screening Level

Underlined values= Detection limits exceeded associated SQS

*= Recommended PSDDA and SMS Screening Level that triggers biological testing (reported as TBT ion)

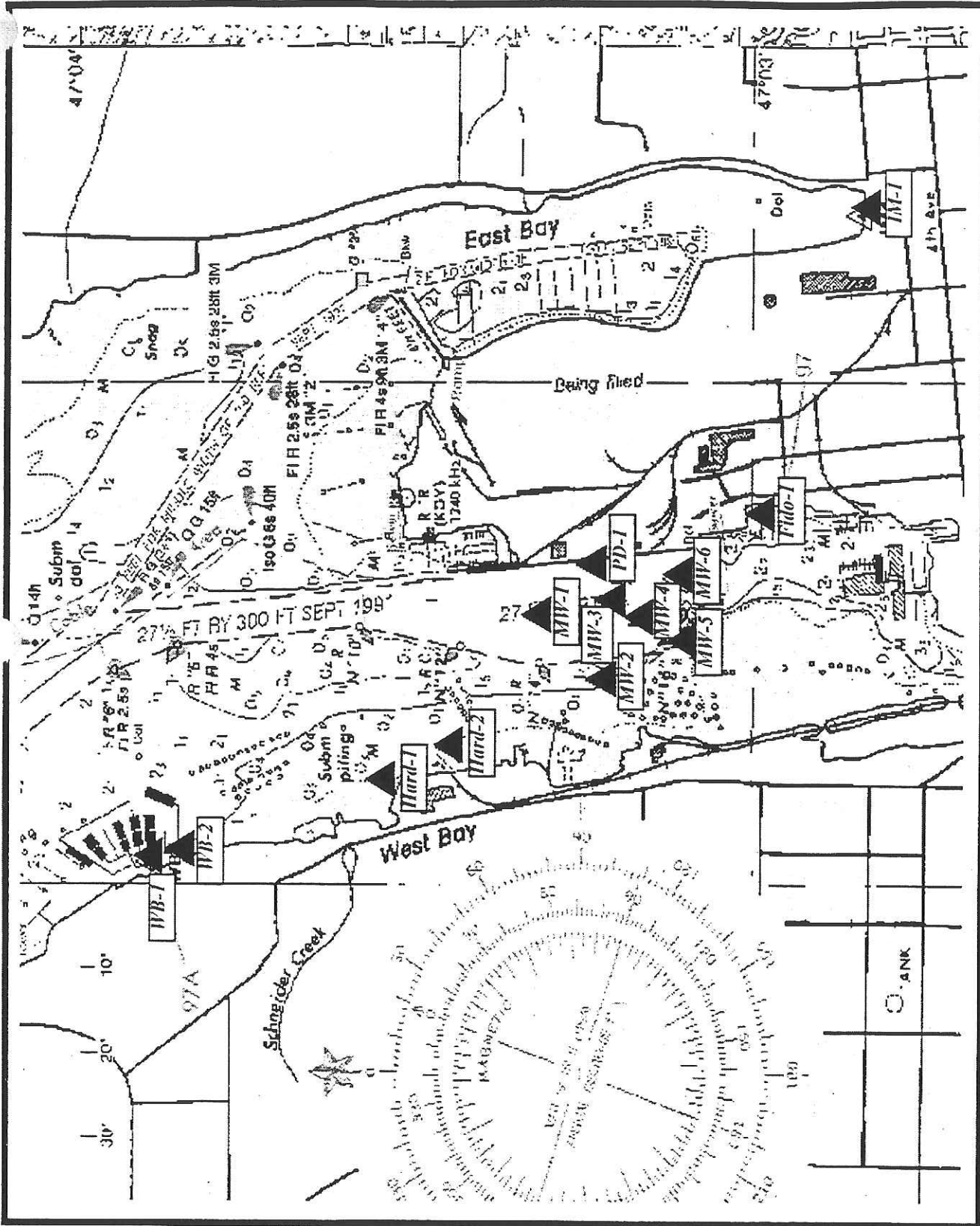


Figure 2: Budd Inlet Station Locations

Table A1: Station Location Information for Budd Inlet Sediment Study.

I. Midwest Site

Station	Latitude		Longitude		Depth @ MLLW (ft)	Description
	Degrees	Minutes	Degrees	Minutes		
MW-1	47	3.321	122	54.460	35	North End of Turning Basin
MW-2	47	3.224	122	54.589	12	Outside Turning Basin West Side
MW-3	47	3.221	122	54.428	36	Center of Turning Basin
MW-4	47	3.167	122	54.467	30	Southwest Area of Turning Basin
MW-5	47	3.011	122	54.506	29	Near Red Nun #16
MW-6	47	3.111	122	54.387	32	South End of Turning Basin
Reference	47	3.154	122	58.985	32	Totten Inlet NW of Gallagher Head

II. Site Screening

Name	Station	Latitude		Longitude		Depth @ MLLW (ft)	Description
		Degrees	Minutes	Degrees	Minutes		
Hardel Plywood	Hard-1	47	3.550	122	54.790	Intertidal	North End of Site
Hardel Plywood	Hard-2	47	3.448	122	54.727	2	Offshore of Concrete Structure
Fiddlehead Outfall	Fido-1	47	2.992	122	54.255	5	Near Fiddlehead Outfall
Port of Olympia Dock	PD-1	47	3.239	122	54.360	40	North End Below Triple Light Tower
West Bay Marina	WB-1	47	3.866	122	54.936	4	Mouth of Haulout Dock
West Bay Marina	WB-2	47	3.851	122	54.934	7	South End of Marina
Indian Moxlie Creek	IM-1	47	2.843	122	53.664	Intertidal	East Bay at Drain Outlet

Table A2: Budd Inlet Sediment Project- Sample Log.

Station	Grab No.	Depth (ft)	Date	Time	Sediment Penetration (cm)	Sample Description
MW-1	1	39	6/9/98	934	17	Black to gray silty sand, some H2S odor, burrowing shrimp present
	2	38	6/9/98	955	17	Black to gray silty sand, some H2S odor, burrowing shrimp present
MW-2	1	13	6/9/98	1025	17	Black to gray silty sand, H2S odor, midshipmen in sample
	2	13	6/9/98	1040	17	Black to gray silty sand, H2S odor, no critters in sample
MW-3	1	36	6/9/98	1100	17	Light brown to black silt w/some sand, H2S odor
	2	35	6/9/98	1112	17	Light brown to black silt w/some sand, H2S odor
MW-4	1	30	6/9/98	1134	17	Brown to black sand w/some silt, H2S odor, no critters in sample
	2	29	6/9/98	1156	17	Brown to black sand w/some silt, H2S odor, no critters in sample
MW-5	1	28	6/9/98	1256	17	Black to brown silt w/some sand, H2S odor, more watery sample than other sites
	2	28	6/9/98	1308	17	Black to brown silt w/some sand, H2S odor, white precip. On sed. Surface, watery
MW-6	1	32	6/9/98	1336	17	Black to brown silt w/some sand, strong H2S odor
	2	32	6/9/98	1349	17	Black to brown silt, H2S odor, Nerid worm in sample
REF-1	1	38	6/9/98	1530	17	Grayish silt w/worms and seawhip, no H2S
	2	40	6/9/98	1545	17	Grayish silt w/worms and seawhip, no H2S
Hard-1	1	6	6/10/98	900	11	Black to brown sandy silt w/shell fragments, and wood debris
Hard-2	1	8	6/10/98	915	17	Light gray to brown silty, w/some sand. Slight H2S odor and shell fragments
Fido-1	1	9	6/10/98	955	13	Black sandy w/some silt w/shell and gravel debris, strong H2S odor
PD-1	1	43	6/9/98	1430	17	Black fine silt w/H2S odor

Recorder: Dale Norton

APPENDIX D

PHOTOGRAPHIC LOG



Fire system with concrete building foundation and former office in background facing west.



View of adjacent property north of subject site.



Glue speaker wastewater tank foundation and storage shed lying across northern property boundary..



Overview of northern portion of property facing southeast.



View of storage shed straddling northwestern property boundary, facing southeast.



View of northern subtidal portion of property in Budd Inlet from north of storage shed facing east.



View of northern portion of subject property facing northeast.



Glue spreader wastewater tank foundation (point 103).



Overview of southern portion of site facing west.



Overview of south-central portion of site facing west.



Overview of central portion of site facing west.



Overview of north-central portion of site facing west.



View across north-central part of site facing west.



View from southwestern part of site facing northwest.



View of western shoreline facing north.



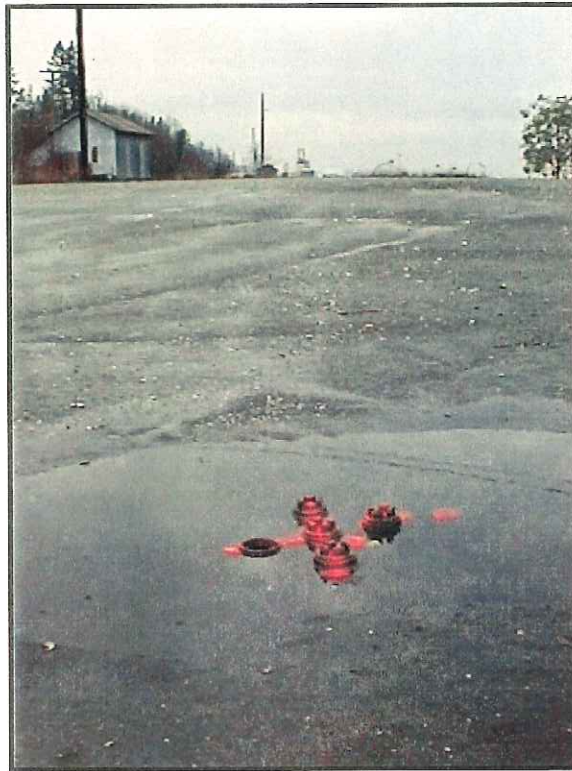
View of southern portion of site facing southeast.



View of southern-central portion of site facing south.



View of shoreline facing south.



View of five capped pipes (pt 115), probable part of stormwater drain system.



Close-up of two capped pipes (pt 114), probable part of stormwater drainage system.



Close-up view of bermed area near resin
and caustic storage area.



View of old pilings in southeast portion of property
and iron stained sediments..



View of empty storage tank and iron stained sediments in intertidal zone.



View of shoreline of subject property facing north from near the southern property boundary. An empty 55-gallon drum is visible on the rip-rap.



View of Reliable Steel Fabricators, Inc., facility from intertidal zone.



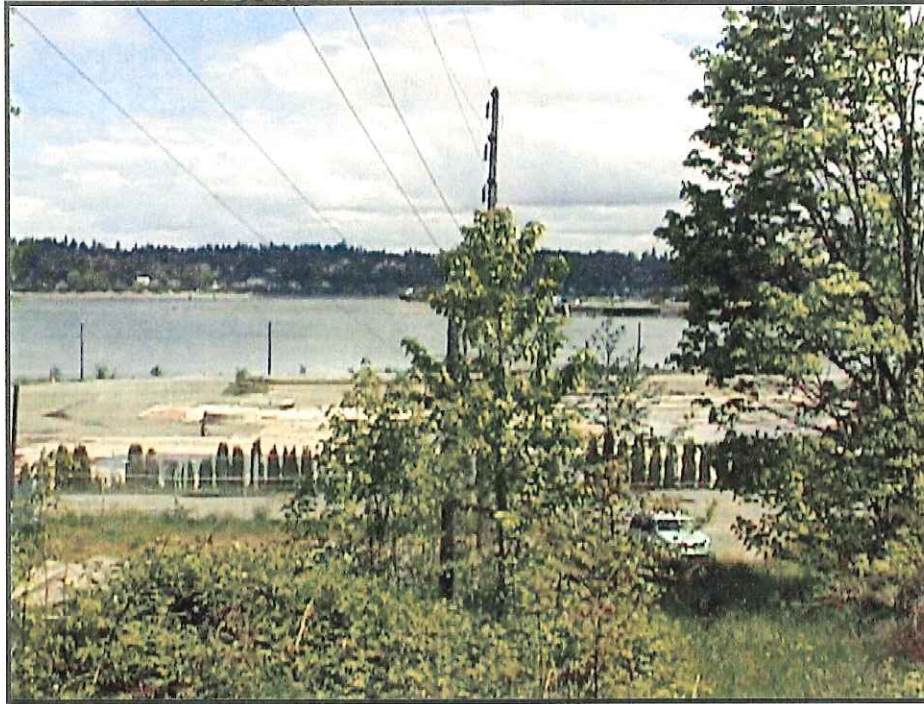
View of shoreline south of subject site from near southern property boundary.



View of iron-stained sediments and former dock facing north from southern property boundary.



Close-up of southernmost storm sewer outfall.



Overview of Hardel Plywood Facility facing east.



Overview of Hardel Plywood Facility facing southeast.



Close-up of 2 pipes, part of dryer fire deluge system (point 125) .



Close-up of pipe angled into ground,
probable part of sanitary sewer or
fire prevention system (point 126).



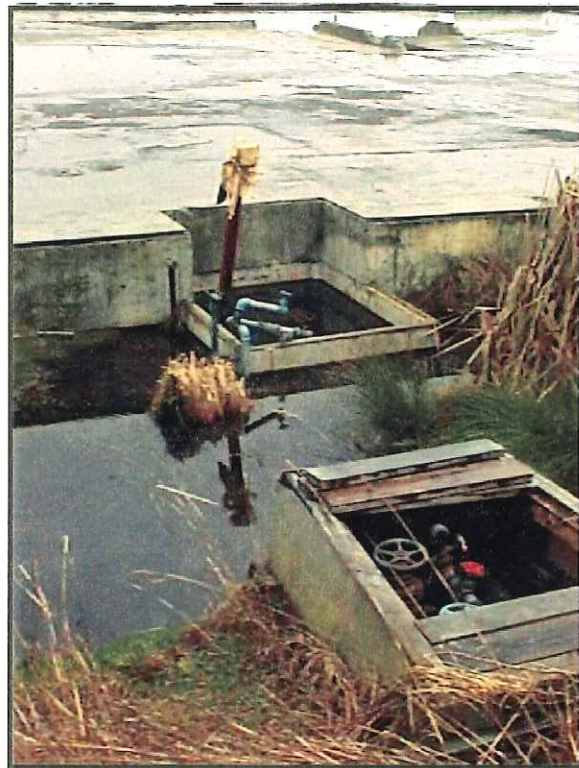
View of southern portion of site from West Bay Drive.
Reliable Steel Fabricators, Inc., facility in foreground.



View of crane at Reliable Steel Fabricators, Inc.



Close-up of storm sewer grate by railroad tracks, southwest corner of site.



Close-up of valves set in recess in concrete with standing water, western site boundary.