



**PHASE I ENVIRONMENTAL SITE  
ASSESSMENT  
2200 COOPER POINT ROAD N.W.  
OLYMPIA, WASHINGTON**

Submitted to:

**Jerry Mahan/Canterwood Homes**  
429 29<sup>th</sup> Street N.E., Suite A  
Puyallup, Washington 98372

Submitted by:

**AMEC Earth & Environmental, Inc.**  
11335 N.E. 122<sup>nd</sup> Way, Suite 100  
Kirkland, Washington 98034-6918

April 2, 2004

4-91M-14895-0



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Jerry Mahan  
429 29<sup>th</sup> Street N.E., Suite A  
Puyallup, Washington 98372

Attention: Mr. Jerry Mahan

**Subject: Phase I Environmental Site Assessment**  
2200 Cooper Point Road N.W.  
Olympia, Washington

Dear Mr. Mahan:

AMEC Earth & Environmental, Inc. (AMEC) is pleased to submit the results of the Phase I Environmental Site Assessment for the above-referenced property located in Olympia, Washington.

We appreciate the opportunity to have served you on this project. If you have any questions or desire further information, please feel free to contact the undersigned at (425) 820-4669.

Sincerely,

**AMEC Earth & Environmental, Inc.**

A handwritten signature in black ink that reads "Elizabeth M. McTyre". The signature is written in a cursive, flowing style.

Elizabeth M. McTyre  
Environmental Staff Scientist

EMM/MJS/lad

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## EXECUTIVE SUMMARY

This report summarizes the findings of the Phase I Environmental Site Assessment (Phase I ESA) conducted by AMEC Earth & Environmental, Inc. (AMEC) of the subject site located in Olympia, Washington. The site is 37.91 acres, rectangular-shaped in configuration and is currently occupied by a mobile home (office and residence) and a gravel pit. Key points are summarized below, and are discussed in detail within the main body of this report.

**Site History:** According to historical research, the site has been used as a log storage yard and gravel pit since at least 1960.

**Site Reconnaissance:** AMEC's site reconnaissance revealed a mobile home used as an office and residence at the southwest corner of the site. A septic system and well house are associated with the building. The majority of the site is used as a gravel pit. A screening machine was observed near the center of the pit. Several areas of standing water were also observed within the pit. Truck and equipment parking was observed on the north side of a garage near the mobile home. Ground staining was observed outside and inside of the garage. An approximately 500-gallon aboveground storage tank (AST) was observed near the garage. The northeast corner of the site is forested.

**Soils, Geology, and Hydrogeology:** According to the United States Department of Agriculture (USDA) *Soil Survey of Thurston County Area, Washington, General Soil Map*, soils of the subject site vicinity are generally characterized as Alderwood series soils. This series is described as moderately well drained, on glacial till plains. The western portion of the site is characterized as a Gravel Pit consisting of open excavations from which soil and the underlying rounded glacial pebbles and stones have been removed. According to the Geology and Groundwater Resources of Thurston County, Washington (USGS Water Resources Division) *Geologic Map of Thurston County, Washington, West Half*, soil at the site is characterized as recessional outwash overlying till.

AMEC's review of driller's well reports on file with Ecology, revealed the existence of many separate well reports within an approximate 1-mile radius of the site. The subject site and surrounding area obtains its drinking water supplies predominately from private wells. Typically, in this region, the near-surface groundwater flow directions may be highly variable across a given site, influenced by such factors as topography, gravity, building structures, and other zones of preferential flow. However, based on area topography, it is assumed that the groundwater flow direction is northwesterly.

**Vicinity Environmental Documentation:** The subject site and one surrounding property are listed on the reviewed federal, state, or local databases of environmentally impaired facilities. The site is listed on the underground storage tank (UST) and leaking underground storage tank (LUST) lists. Ecology records report that petroleum contaminated soil from a former UST at the site was removed in 1993. The nearby listed UST facility is not expected to negatively impact the site due to its assumed hydrologically non-tributary location relative to the subject site. Refer to Section 7.0.

**Conclusions:** This assessment has revealed no recognized environmental conditions in connection with the property except the following:

- One 500-gallon AST with no secondary containment located near the garage; and
- Ground staining in the vicinity of several 55-gallon oil drums in the garage, and in the truck parking area outside of the garage.

The former on site diesel UST, removed in 1993, represents an historic recognized environmental condition. Records of file with Ecology report that soil contamination around the fill pipe was removed and disposed of off site. Analytical results indicated no additional contamination in relation to the UST. Additionally, sand and gravel pit operations historically have been considered somewhat environmentally suspect land use activities due to potential releases of petroleum or other chemical substances from heavy equipment and trucks. With regard to possible releases from heavy equipment and trucks, the primary concern would be related to petroleum or other chemical substance releases of uncontrolled or catastrophic magnitude rather than from minor, localized releases. AMEC's historical and documentary research did not disclose any evidence of past catastrophic releases on the site.

Localized zones of petroleum-impacted soil in the two areas of ground staining within and outside of the garage would remain uncharacterized without conducting further subsurface investigation beyond the scope of the Phase I assessment. Additionally, unknown substances may have been disposed of into the septic system that would remain uncharacterized without conducting further subsurface investigation beyond the scope of the Phase I assessment.

The preceding summary is intended for introductory and reference use. A complete reading of this report is recommended.

## **1.0 INTRODUCTION**

AMEC Earth & Environmental, Inc. (AMEC) performed a Phase I Environmental Site Assessment (Phase I ESA) at the above-referenced property located in Olympia, Washington. The purpose of the Phase I ESA was to document current and historical information on site and vicinity property usage, to evaluate the potential for environmental liability or site use restrictions due to those usages, and to identify "recognized environmental conditions" as defined by the American Society for Testing and Materials (ASTM). The project conforms to general standards established in 2000 by the ASTM (ASTM E:1527-00). The scope of work for the Phase I ESA includes:

- A physical reconnaissance of the accessible portions of the site and observation of surrounding properties for unusual ground surface conditions, refuse piles, stressed vegetation or physical irregularities as well as an exploration of current land use in the immediate vicinity;
- A review of available information on the soils, geology, and hydrogeology in the vicinity of the site;
- A review of available environmental documentation for the site and vicinity properties from local, state, and federal environmental agencies;
- A review of available historical data pertaining to site and adjacent property use;
- A review of the information obtained and an assessment of the potential for impact by toxic, hazardous, or otherwise regulated materials;
- Personal interviews with site knowledgeable individuals for the purpose of obtaining relevant anecdotal information regarding the project site and adjacent properties; and
- Preparation of this Phase I ESA Report documenting the findings of the study.

The scope of services executed for this project does not comprise an audit for regulatory compliance, nor does it comprise a detailed condition survey for asbestos, mold, radon, lead-based paint, lead in drinking water, naturally occurring materials, wetlands, historical or archeological sites, or other conditions or potential hazards not outlined in ASTM E:1527-00 or in AMEC's Scope of Work.

## **2.0 OBJECTIVES**

AMEC was retained by Jerry Mahan/Canterwood Homes to conduct a Phase I ESA on the subject site located in Olympia, Washington. The purpose of this Phase I ESA is to identify recognized environmental conditions in connection with the property. For the purposes of this investigation, "recognized environmental conditions" are defined as the presence or the potential presence of any hazardous substances or petroleum products on the subject site or adjacent properties under conditions that indicate an existing release, past release, or material threat of a release into structures on the property or into the ground, groundwater or surface water of the property.

The term "recognized environmental conditions" includes hazardous substances or petroleum products even under conditions in compliance with environmental laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. It is understood that Jerry Mahan/Canterwood Homes will materially rely on this Phase I ESA report as a representation of the scope of work and findings of the work performed.

### **2.1 Limitations**

This report has been prepared for the exclusive use of Jerry Mahan/Canterwood Homes in accordance with generally accepted professional consulting practices. Use or misuse of this report, or reliance upon the findings hereof by any parties other than Jerry Mahan/Canterwood Homes is at their own risk. Neither Jerry Mahan/Canterwood Homes nor AMEC may make any representation or warranty to such other parties as to the accuracy or completeness of this report or the suitability of its use by such other parties for any purpose whatever, known or unknown. Neither Jerry Mahan/Canterwood Homes nor AMEC shall indemnify or hold harmless, or have any liability to, third parties for any losses incurred by the actual or purported use or misuse of this report.

This report has been prepared to attempt to qualify the environmental conditions of the property and vicinity. Environmental conditions and regulations are subject to constant change and reinterpretation. Current conditions or regulatory status should not be assumed to represent conditions at some future time. Environmental impairment of a property may result from activities such as illegal or unreported dumping, or the spilling of hazardous wastes or materials. Neither AMEC nor the completion of a Phase I ESA in accordance with ASTM E:1527-00 can provide a guarantee that the site is free of hazardous or potentially hazardous materials or conditions, or that latent or undiscovered conditions will not become evident in the future.

AMEC obtained, reviewed, and evaluated information available from the property owner and/or local, state, or federal agencies. Regulatory database searches are limited to those facilities that have been identified and listed in the referenced government environmental regulatory files as of the noted dates. AMEC's conclusions, opinions, and recommendations are based, in part,



on this information. Where possible, AMEC has made efforts to identify mistakes or insufficiencies in the information provided, but verification of all of the information provided is beyond the scope of a Phase I ESA.

The collection of quantitative information, such as data generated by the analysis of soil or water samples, was beyond the scope of this assessment. It should be specifically noted and understood that the scope of services executed for this project does not comprise an audit for regulatory compliance, ecological resources, endangered species, cultural and historic resources, archeological sites, indoor air quality, industrial hygiene, health and safety, or high voltage power lines, nor does it comprise a detailed sampling or condition survey for asbestos, lead-based paint, lead in drinking water, radon, naturally occurring materials, wetlands, or other conditions or potential hazards not outlined in AMEC's Scope of Work.

In this report AMEC has not considered:

- a) The actual or threatened inhalation of, ingestion of, contact with, exposure to, existence of, growth or presence of; or
- b) Any costs or expenses that may be incurred to prevent, respond to, test for, monitor, abate, mitigate, remove, clean-up, contain, remediate, treat, detoxify, neutralize, assess or otherwise deal with or dispose of; any fungi or any spores, mycotoxins, odors, or any other substances, products or by-products produced by, released by, or arising out of the current or past presence of Fungi. "Fungi" includes any form of fungus, including but not limited to yeast, mold, mildew, rust or smut.

This report represents the professional opinions and judgments of AMEC, prepared in accordance with commonly practiced environmental assessment procedures by nationally recognized firms in the field. No other warranties, representations, or certifications are made.

Provided that the report is still reliable, and less than 12 months old, AMEC will issue a third-party reliance letter to parties client identifies in writing, upon payment of the then current fee for such letters. All third parties relying on AMEC's report, by such reliance agree to be bound by our proposal and AMEC's standard reliance letter. AMEC's standard reliance letter indicates that in no event shall AMEC be liable for any damages, howsoever arising, relating to third-party reliance on AMEC's report. No reliance by any party is permitted without such agreement.

### 3.0 SITE DESCRIPTION

The subject site is located at 2200 Cooper Point Road N.W. in Olympia, Washington (Section 9, Township 18 North, Range 2 West, W.M.). The approximate site location is shown on Figure 1, Location Map.

The site is rectangular-shaped in configuration and the current taxpayer is listed as Barbara Pettus. The site is bordered on the north and east by a forested area with rural residences beyond; on the south by a residence and forested area; and on the west by a wooded area with Cooper Point Road N.W. beyond. The approximate site and vicinity configuration is shown on Figure 2, Site & Vicinity Plan.

Topographically, the site slopes to the west with regional topography sloping to the northwest. According to the United States Geological Survey (USGS) topographic map for the *Tumwater Quadrangle, Washington*, the site is situated at an approximate elevation of 280 (+/-) feet above mean sea level.

## **4.0 SITE HISTORY**

The site history was documented through a review of tax assessment records, historical aerial photographs, historical city directories, historical maps, local fire department records, and personal interviews.

### **4.1 Tax Assessment Records**

Thurston County Assessor's Office records reveal the subject site to be comprised of tax lots 81700000000, 74202500200, 50400-400100, -300100, -200100, and -100100 which have a combined total reported area of 37.91 acres. The current listed taxpayer for the site is Barbara Pettus and Theodore Sundberg (deceased).

According to assessor records, parcel 81700000000 is a 27.4-acre industrial property with address 2200 Cooper Point Road N.W. used for mining. Parcel 74202500200 is a 4.66-acre property with address 2721 Park St N.W. occupied by a mobile home, well, and septic system. The remaining parcels are listed as undeveloped land. No addresses or structures are recorded on the parcels.

AMEC's review of the county tax assessment records disclosed no environmental liens or deed restrictions associated with the subject site. Copies of reviewed tax assessment records are appended to the text of this report as Appendix C.

### **4.2 Aerial Photograph Review**

Aerial photographs were reviewed at the Tukwila, Washington offices of Walker and Associates, Inc. in an effort to identify the history of development at the site and the surrounding area. The photographs typically ranged from 1" = 1,500' to 1" = 2,000' in scale. In the review of the aerial photographs, observations are interpretive and limited to the area immediately surrounding the subject site. These observations are also limited by variations in resolution, contrast, color, and in the height from which the photographs were taken. Where visible, the presence or absence of structures on the site and developmental trends in the area are recorded. The photographs reviewed covered the years 1960, 1978, 1983, 1990, 1996, 2000, and 2003.

#### **1960**

One garage, barn, or shed building is visible near the south end of the site in the 1960 photograph. The majority of the site has been cleared of vegetation. A forested area occupies the eastern portion of the site. Forested areas and rural residences are visible surrounding the site in all directions.

### **1978 and 1983**

Three garage, barn, or shed buildings are visible on the south end of the site. Large stacks of logs are visible on the middle and western portions of the site. A forested area occupies the eastern portion of the site. Surrounding properties appear essentially unchanged from the previous photograph.

### **1990**

A rectangular residential type building is visible on the southwest corner of the site. Large stacks of logs are visible on the middle and western portions of the site. A forested area occupies the eastern portion of the site. Surrounding properties appear essentially unchanged from the previous photographs.

### **1996, 2000 and 2003**

A rectangular residential type building continues to be visible on the southwest corner of the site with a garage and several trucks parked near it. A gravel pit takes up most of the site with trees visible in the northeast corner of the site. Surrounding properties are occupied by forest and rural residences.

## **4.3 Historic City Directories**

In an effort to identify previous site land usage, historical *Polk's City Directories for Olympia* were reviewed at the Olympia-Timberland Public Library, in intervals of less than five years (where feasible). No listings were available for the subject site addresses until 1998. Listings did not reveal uses for the site other than the current site uses of residential and Sundberg Sand and Gravel. Residential listings dominated the surrounding area with Cooper Point Chevron listed at 2123 Cooper Point Road N.W. in the 2002 directory.

## **4.4 Building Permit and Planning Records**

A search of building permit/building plan records at Olympia Building Department revealed no permits or plans on file for the subject site. The site is included in the Urban Growth Management Area.

## **4.5 Historic Maps**

Historic area maps were consulted in an attempt to identify historical site usage. Maps consulted for this review included a historical Kroll's Atlas of Olympia, a Metsker's Atlas of Thurston County and Sanborn Fire Insurance Maps, as discussed below.

#### **4.5.1 Metsker's Atlas**

A historical Metsker's Atlas of Thurston County for the year 1985 was reviewed at the Olympia-Timberland Public Library. The site area was shown to be part of the Villa Park area but did not note ownership of the site.

#### **4.5.2 Kroll's Atlas**

A historical Kroll's Atlas of Olympia for the year 1986 was reviewed at the Olympia-Timberland Public Library. The site area was shown to be part of the Villa Park Addition with the northeast corner of the site subdivided but not developed. "Log Storage" was noted on the site.

#### **4.5.3 Sanborn Fire Insurance Maps**

AMEC retained the services of Environmental Data Resources, Inc. (EDR) to perform a search for Sanborn Fire Insurance Maps covering the subject site and adjoining properties. EDR maintains the largest and most complete collection of Sanborn Maps in the United States. EDR's search of its collection did not reveal map coverage for the subject site vicinity. A copy of EDR's "No Coverage" letter is included in Appendix D.

#### **4.6 Fire Department Records**

AMEC contacted the Olympia Fire Department regarding possible fire department responses to hazardous materials spills or incidents at the subject site. According to department representatives, no responses have been made to the subject site.

## **5.0 SITE RECONNAISSANCE**

AMEC personnel conducted an unescorted reconnaissance of the subject site on April 1, 2004. The investigation was conducted on foot, and the following observations were noted. Site photographs are included in Appendix B.

### **5.1 Buildings**

A mobile home used as an office and residence was observed at the southwest corner of the site. A garage and well-house were observed to the east of the residence.

### **5.2 Fuel Storage Tanks**

During the site reconnaissance, AMEC personnel did not observe any visual evidence, in the form of vent pipes or fill ports, that would indicate the presence of underground storage tanks (USTs). One approximately 500-gallon diesel aboveground storage tank (AST) was observed near the garage. The AST appeared new and in good condition however it was sitting on gravel with no additional containment.

### **5.3 Chemical Materials**

AMEC's site reconnaissance revealed approximately 8, 55-gallon drums of oil and drive train fluid within the garage. Two additional drums were observed outside of the garage. The drums were stored on gravel with no additional containment.

### **5.4 Refuse, Debris, and Ground Staining**

Minor amounts of household debris including furniture and tires were observed on the south side of the residence. AMEC's site reconnaissance did not reveal any environmentally deleterious refuse and debris on the site.

Staining of the gravel and soil ground was observed in the garage and to the north of the garage near the equipment and truck parking area. The two areas each measured approximately 6 feet by 6 feet.

### **5.5 Site Drainage**

Several areas of standing water were observed within the gravel pit area. Surface water run-off on the site would likely percolate into the subsurface via passive infiltration.

### **5.6 Water Wells and Water Service**

One potable water well was identified at the subject site, on the east side of the residence. A review of filed Ecology water well records and interviews with municipal agency personnel

indicates that the subject property and surrounding area obtains its drinking water supplies predominately from private wells. The city draws its municipal water supply predominately from McCallister Springs located many miles southeast of the site. AMEC's review of driller's water well reports on file with Ecology revealed many privately-owned domestic water wells within an approximate one-mile radius of the subject site.

### **5.7 Sewer and Septic Systems**

According to Ms. Barbara Pettus, subject site owner, a septic system is associated with the office/residence. The drain field is on the west side of the building.

### **5.8 Electrical Transformers**

AMEC's site reconnaissance revealed no pad or pole-mounted electrical transformers on the subject site.

### **5.9 Surface Vegetation**

Surface vegetation can be indicative of subsurface conditions, and may show signs of stress where contaminants have been discarded. On-site vegetation appeared healthy and vigorous, displaying no outward indication of apparent contaminant impacts.

### **5.10 Adjoining Properties**

An AMEC representative conducted a reconnaissance of the area immediately surrounding the subject property on April 1, 2004. The purpose of this reconnaissance was to observe land use in the site vicinity and to evaluate the potential for nearby businesses to generate, use, or store hazardous materials that may affect the subject property.

The subject site is situated in an area characterized predominantly by rural residential development. The site is bordered on the east and north by a forested area with rural residences beyond; on the south by a residence and forested area; and on the west by a forested area with Cooper Point Road N.W. beyond. No visibly apparent potential adverse environmental impacts were noted with respect to the adjoining properties during AMEC's off-site, non-intrusive reconnaissance.

## **6.0 GEOLOGY, HYDROGEOLOGY, AND SOILS**

Our understanding of subsurface conditions is based on the results of AMEC's experience in the site vicinity as well as supporting documentation concerning regional, local, and on-site subsurface conditions.

### **6.1 Geology and Soils**

The geology of the Greater Puget Sound region is characterized by glacially-derived sediments, which were deposited during several episodes, concluding with the Vashon Stade of the Fraser Glaciation, which ended approximately 13,500 years ago. The advance of the Vashon glacier deepened and widened north-south trending valleys. Thick bodies of sand, gravel, and till were deposited over the area. With the retreat of the glacier, ice-contact stratified drift was deposited over much of the area, followed by a period of alluvial valley filling, peat deposition, minor erosion, and soil development.

According to the United States Department of Agriculture (USDA) *Soil Survey of Thurston County Area, Washington, General Soil Map*, soils of the subject site vicinity are generally characterized as Alderwood series soils. This series is described as moderately well drained, on glacial till plains. The western portion of the site is characterized as a Gravel Pit consisting of open excavations from which soil and the underlying rounded glacial pebbles and stones have been removed. According to the Geology and Groundwater Resources of Thurston County, Washington (USGS Water Resources Division) *Geologic Map of Thurston County, Washington, West Half*, soil at the site is characterized as recessional outwash overlying till.

### **6.2 Groundwater Characteristics**

Although groundwater flow direction is difficult to predict without subsurface exploration data, an estimate of probable direction of near-surface groundwater flow is provided to help evaluate potential on- and off-site contaminant impacts in the event that dissolved or free phase contaminants are present in the local groundwater. Typically, in this region, the near-surface groundwater flow directions may be highly variable across a given site, influenced by such factors as topography, gravity, building structures, and other zones of preferential flow. However, based on area topography, it is assumed that the near-surface groundwater flow direction is northwesterly.



## 7.0 VICINITY ENVIRONMENTAL RECORDS

As a part of this Phase I study, current federal, state and county environmental database listings were obtained from Environmental Data Resources, Inc. (EDR) for the subject property and vicinity. The EDR report, dated March 19, 2004, was reviewed by AMEC to identify possible environmental concerns in the area of the subject site. These lists are not necessarily complete or fully up to date. The EDR report also includes a list of unmappable sites due to limited information available in the regulatory files. AMEC reviewed the list of unmappable sites for any listings in the proximity of the subject property and included them in the following database report where applicable. The search radii AMEC utilizes for its standard Phase I reports meet or exceed those specified in ASTM Standard E:1527-00. A copy of the EDR database search report is attached in Appendix A and copies of Ecology records are included in Appendix E.

AMEC has attempted to evaluate the sites identified on one or more of these lists, based on their distance from and location relative to the subject site. The following major databases (state and federal ASTM records) were reviewed (AMEC's standard search radius for each database is listed in parentheses).

- U.S. Environmental Protection Agency (EPA) Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) report (½ mile), CERCLIS NFRAP report (¼ mile), and sites on the National Priority List (NPL) (1 mile);
- Ecology's Confirmed and Suspected Contaminated Sites (CSCSL) report (1 mile) and CSCSL NFA (no further action) report and Hazardous Sites List (HSL) report (1 mile);
- EPA's Resource Conservation and Recovery Act (RCRA) lists of large and small quantity generators (subject property and adjacent properties), RCRA non-CORRACTS Treatment, Storage, and Disposal (TSD) Facilities (½ mile), and RCRA CORRACTS TSD facilities (1 mile);
- Ecology's underground storage tank (UST) and Indian UST registration lists (subject property and adjacent properties);
- Ecology's Leaking UST (LUST) list (½ mile);
- Ecology's Voluntary Cleanup Program (VCP) list (½ mile);
- EPA's Emergency Response Notification System (ERNS) list (subject property); and
- Landfills (½ mile).

### 7.1 Registered USTs

Leakage from USTs is a potential source of environmental contamination. Ecology's report of registered USTs lists registered USTs in the State of Washington. Therefore, this list is limited to registered USTs and does not necessarily include every existing UST. **The reviewed UST report (dated January 2004) identifies the subject site as a UST facility.** According to Ecology, a 12,000-gallon diesel fuel UST located northeast of the on-site mobile home, previously used for truck fueling, was removed from the site in 1993. Contaminated soil was observed around the fill pipe area. The contaminated soil was excavated and disposed of off site. Soil sampling confirmed no contamination within the UST excavation and it was determined that the release was a result of poor fuel handling practices rather than a leaking UST. **No immediately adjoining facilities are listed as current or former registered UST facilities.** According to the EDR report, the closest UST facility is Cooper Point Chevron located south of the site at 2205 Cooper Point Road. Records on file with Ecology indicate two, 20,000-gallon UST were installed at the facility in 2001. No leaks or environmental issues with the tanks were recorded in Ecology's files. Copies of available Ecology records are included in Appendix E.

### 7.2 LUST

Ecology's LUST report is limited to reported LUSTs and may not include every LUST. **The reviewed LUST report (dated January 2004) lists the subject site but does not list any other facility within an approximate ½-mile radius of the subject site.** The subject site is discussed above in Section 7.1.

### 7.3 Landfills

**A review of Ecology's listing of Solid Waste/Landfill (SWLF) facilities located in the State of Washington (dated October 2003) revealed no SWLF facilities within an approximate ½-mile-radius of the subject site.**

### 7.4 CSCSL and HSL Report

Ecology's CSCSL report lists suspected or confirmed hazardous substances sites in the State of Washington. Ecology's HSL report is a subset of the CSCSL report. **The reviewed CSCSL report (dated July 2003) and HSL report (dated August 2003) do not list the subject site or any other facility within an approximate 1-mile radius of the subject site.**

**No facilities within a ½ -mile radius of the site are listed on the State ASTM Supplemental CSCSL NFA list (dated July 2003) of sites previously on the CSCSL list that have received a no further action (NFA) determination.**

### 7.5 VCP

The Voluntary Cleanup Program (VCP) list is a list of sites that have entered either the Voluntary Cleanup Program or its predecessor the Independent Remedial Action Program. **The**

**reviewed VCP list (dated December 2003) does not list the site or any other facility within an approximate ½- mile radius of the subject site.**

## **7.6 RCRA Lists**

The RCRA report is a list of regulated generators, handlers, transporters, and disposers of hazardous materials. Listing on the RCRA report does not necessarily indicate that a facility has been adversely affected by a hazardous material, but merely that the facility may either generate, transport, store or dispose of regulated hazardous substances in the ordinary course of operation, and that the facility is required to monitor and document their hazardous waste activities to EPA or Ecology.

### **RCRA CORRACTS Facilities List**

The RCRA CORRACTS facilities database contains listings of facilities subject to RCRA corrective action activity. **The subject property was not listed in the reviewed RCRA report of CORRACTS facilities (dated December 2003). In addition, no CORRACTS facilities were identified within an approximate 1-mile radius of the subject site.**

### **RCRA TSD Facilities List**

The RCRA TSD facilities database contains listings of facilities that treat, store, or dispose of RCRA-regulated hazardous wastes. **Neither the subject property nor any other facility within an approximate ½-mile radius of the subject property was listed in the reviewed RCRA report of TSD facilities (dated January 2004).**

### **RCRA Large Generators**

The RCRA report of large quantity generators is a database of facilities that generate 2.2 pounds of acutely hazardous waste and/or generate 2,200 or more pounds of hazardous waste per calendar month. **Neither the subject property nor any immediately adjoining property was listed in the reviewed RCRA report of large quantity generators (dated January 2004).**

### **RCRA Small Generators**

The RCRA report of small quantity generators is a database of facilities that generate between 220 and 2,200 pounds of hazardous wastes per calendar month. **Neither the subject property nor any immediately adjoining property was listed in the reviewed RCRA report of small quantity generators (dated January 2004).**

## **7.7 CERCLIS List**

The CERCLIS database is used by the EPA to track activity conducted under the Superfund program. Three types of sites are listed on this inventory: sites that may be hazardous and

require a preliminary investigation (CERCLIS); sites for which no further remedial action is planned (NFRAP); and sites that represent a long-term threat and are classified on the National Priorities List (NPL).

**The reviewed CERCLIS report (dated November 2003) does not list the subject site or any other facility within an approximate ½-mile radius of the subject site.**

**The reviewed CERCLIS-NFRAP report (dated November 2003) does not list the subject site or any other facility within an approximate ¼-mile radius of the subject site.**

**The reviewed NPL report (dated January 2004) does not list the subject site or any other facility within an approximate 1-mile radius of the subject site.**

#### **7.8 ERNS List**

The ERNS list is a national database used to collect information on reported accidental releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the United States Coast Guard, the National Response Center, and the United States Department of Transportation. **The reviewed ERNS list (dated December 2002) does not list the subject property.**

## **8.0 PREVIOUS SITE ENVIRONMENTAL INVESTIGATIONS**

AMEC was not provided with any previous environmental investigations conducted for the subject site.

## 9.0 INTERVIEWS

In a telephone interview, Ms. Barbara Pettus, subject site owner, stated that the site has been in her family for approximately 50 years. Ms. Pettus stated that the site has been an active gravel pit since approximately 1960. Ms. Pettus stated that any underground storage tanks previously on the site have been removed and cleaned up. She was not aware of any environmental issues related to hazardous materials spills or incidents at the site.

## 10.0 CONCLUSIONS

AMEC performed a Phase I ESA in general conformance with the scope and limitations of ASTM E:1527-00 of the subject site in Olympia, Washington. Any exceptions to, or deletions from, this practice are described in Section 2.1 of this report.

This assessment has revealed no recognized environmental conditions in connection with the property except the following:

- One 500-gallon AST with no secondary containment located near the garage; and
- Ground staining in the vicinity of several 55-gallon oil drums in the garage, and in the truck parking area outside of the garage.

The former on site diesel UST, removed in 1993, represents an historic recognized environmental condition. Records of file with Ecology report that soil contamination around the fill pipe was removed and disposed of off site. Analytical results indicated no additional contamination in relation to the UST. Additionally, sand and gravel pit operations historically have been considered somewhat environmentally suspect land use activities due to potential releases of petroleum or other chemical substances from heavy equipment and trucks. With regard to possible releases from heavy equipment and trucks, the primary concern would be related to petroleum or other chemical substance releases of uncontrolled or catastrophic magnitude rather than from minor, localized releases. AMEC's historical and documentary research did not disclose any evidence of past catastrophic releases on the site.

Localized zones of petroleum-impacted soil in the areas of ground staining within and outside of the garage would remain uncharacterized without conducting further subsurface investigation beyond the scope of the Phase I assessment. Additionally, unknown chemical substances may have been disposed of into the septic system that would remain uncharacterized without conducting further subsurface investigation beyond the scope of the Phase I assessment.

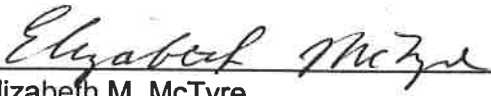
Jerry Mahan  
April 2, 2004

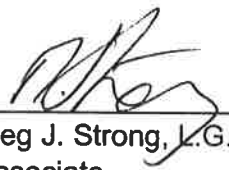
4-91M-14895-0  
Page 18

AMEC appreciates the opportunity to have served Jerry Mahan/Canterwood Homes on this project. If you have any questions or desire further information, please feel free to contact our office.

Sincerely,

**AMEC Earth & Environmental, Inc.**

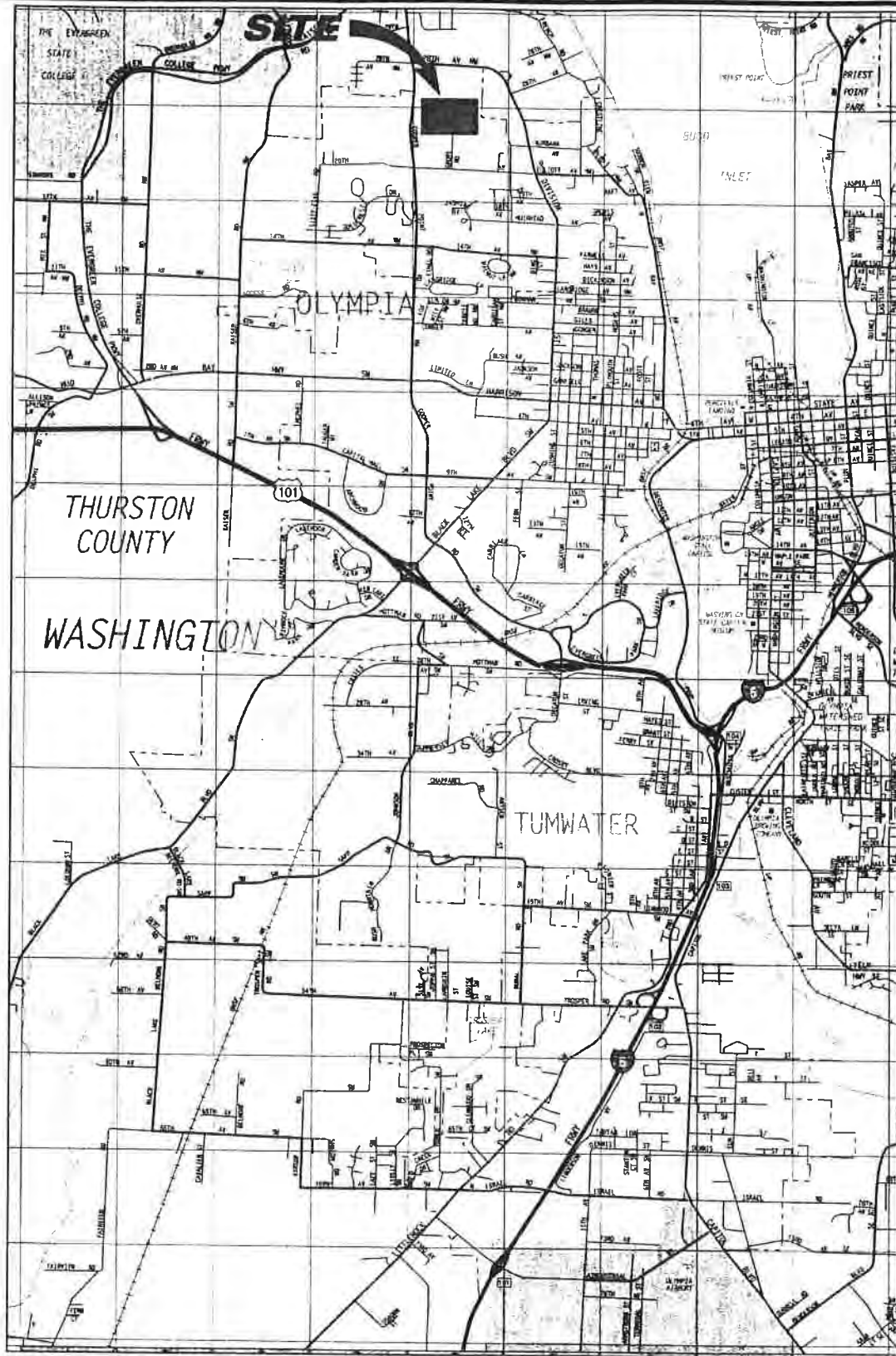
  
\_\_\_\_\_  
Elizabeth M. McTyre  
Environmental Staff Scientist

  
\_\_\_\_\_  
Meg J. Strong, L.G.  
Associate

EMM/MJS/lad



JOB NO.: 4-91M-14895-0 | DWG DATE: 04-01-2004 | SCALE: N.T.S. | DESIGN BY: EMM | FILE NAME: LOCATION.DWG



N.T.S.

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AMEC EARTH AND ENVIRONMENTAL, INC  
11335 N.E. 122nd Way, Suite 100  
Kirkland, WA, U.S.A. 98034-6918

### LOCATION MAP

2200 COOPER POINT RD NW

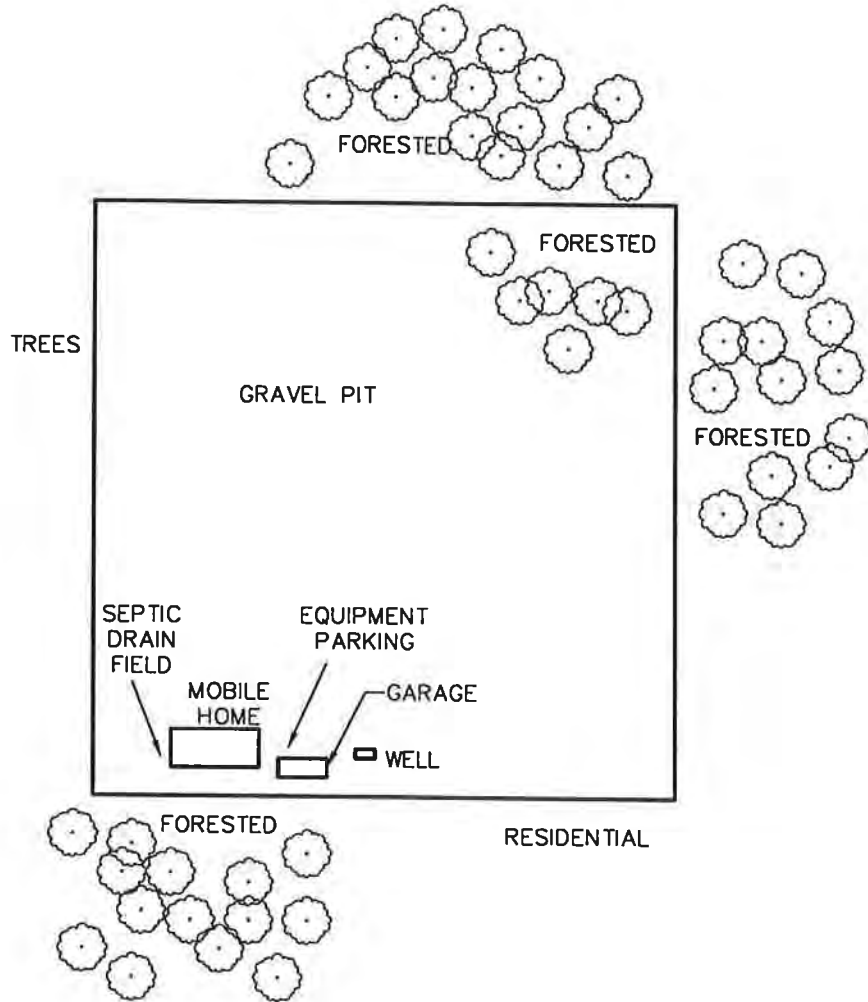
OLYMPIA, WASHINGTON

FIGURE

1

JOB NO.: 04-91M-14895-0 | DWG DATE: 04-01-2004 | SCALE: N.T.S. | DESIGN BY: EMM | FILE NAME: FIG-2.DWG

COOPER POINT ROAD NW



N.T.S.



AMEC EARTH AND ENVIRONMENTAL, INC.  
11335 N.E. 122nd Way, Suite 100  
Kirkland, WA, U.S.A. 98034-6918

SITE AND VICINITY PLAN  
2200 COOPER POINT RD NW  
OLYMPIA, WASHINGTON

FIGURE

2

**APPENDIX A**  
**EDR DATABASE SEARCH REPORT**





**EDR™** Environmental  
Data Resources Inc

## **The EDR Radius Map with GeoCheck®**

**Cooper Point  
2200 Cooper Point Rd NW  
Olympia, WA 98502**

**Inquiry Number: 1154879.2s**

**March 19, 2004**

## **The Standard in Environmental Risk Management Information**

**440 Wheelers Farms Road  
Milford, Connecticut 06460**

### **Nationwide Customer Service**

**Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)**



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

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## EXECUTIVE SUMMARY

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

### TARGET PROPERTY INFORMATION

#### ADDRESS

2200 COOPER POINT RD NW  
OLYMPIA, WA 98502

#### COORDINATES

Latitude (North): 47.067200 - 47° 4' 1.9"  
Longitude (West): 122.939000 - 122° 56' 20.4"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 504631.9  
UTM Y (Meters): 5212415.0

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 47122-A8 TUMWATER, WA  
Source: USGS 7.5 min quad index

### TARGET PROPERTY SEARCH RESULTS

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

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ( "reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

#### FEDERAL ASTM STANDARD

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned  
CORRACTS..... Corrective Action Report  
RCRIS-TSD..... Resource Conservation and Recovery Information System  
RCRIS-LQG..... Resource Conservation and Recovery Information System  
RCRIS-SQG..... Resource Conservation and Recovery Information System  
ERNS..... Emergency Response Notification System

#### STATE ASTM STANDARD

CSCSL..... Confirmed & Suspected Contaminated Sites List



## EXECUTIVE SUMMARY

<b>HSL</b> .....	Hazardous Sites List
<b>SWF/LF</b> .....	Solid Waste Facility Database
<b>VCP</b> .....	Voluntary Cleanup Program Sites
<b>INDIAN UST</b> .....	Underground Storage Tanks on Indian Land

### FEDERAL ASTM SUPPLEMENTAL

<b>CONSENT</b> .....	Superfund (CERCLA) Consent Decrees
<b>ROD</b> .....	Records Of Decision
<b>Delisted NPL</b> .....	National Priority List Deletions
<b>FINDS</b> .....	Facility Index System/Facility Identification Initiative Program Summary Report
<b>HMIRS</b> .....	Hazardous Materials Information Reporting System
<b>MLTS</b> .....	Material Licensing Tracking System
<b>MINES</b> .....	Mines Master Index File
<b>NPL Liens</b> .....	Federal Superfund Liens
<b>PADS</b> .....	PCB Activity Database System
<b>US BROWNFIELDS</b> .....	A Listing of Brownfields Sites
<b>DOD</b> .....	Department of Defense Sites
<b>RAATS</b> .....	RCRA Administrative Action Tracking System
<b>TRIS</b> .....	Toxic Chemical Release Inventory System
<b>TSCA</b> .....	Toxic Substances Control Act
<b>SSTS</b> .....	Section 7 Tracking Systems
<b>FTTS INSP</b> .....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

### STATE OR LOCAL ASTM SUPPLEMENTAL

<b>CSCSL NFA</b> .....	Confirmed & Contaminated Sites - No Further Action
<b>SPILLS</b> .....	Reported Spills
<b>CDL</b> .....	Clandestine Drug Lab Contaminated Site List
<b>INST CONTROL</b> .....	Institutional Control Site List
<b>EMI</b> .....	Washington Emissions Data System

### EDR PROPRIETARY HISTORICAL DATABASES

<b>Coal Gas</b> .....	Former Manufactured Gas (Coal Gas) Sites
-----------------------	--

### BROWNFIELDS DATABASES

<b>US BROWNFIELDS</b> .....	A Listing of Brownfields Sites
<b>VCP</b> .....	Voluntary Cleanup Program Sites

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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



## EXECUTIVE SUMMARY

### STATE ASTM STANDARD

**LUST:** The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Ecology's Leaking Underground Storage Tanks Site List.

A review of the LUST list, as provided by EDR, and dated 01/14/2004 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Site</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>COOPER POINT LOG YARD</b>	<b>2200 COOPER POINT ROAD</b>	<b>1/8 - 1/4 W</b>	<b>A2</b>	<b>6</b>

**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 01/14/2004 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

<u>Site</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>COOPER POINT LOG YARD</b>	<b>2200 COOPER POINT ROAD</b>	<b>1/8 - 1/4 W</b>	<b>A2</b>	<b>6</b>
<b>COOPER PT. CHEVRON</b>	<b>2205 COOPER PT. RD</b>	<b>1/8 - 1/4 SW</b>	<b>3</b>	<b>7</b>

### STATE OR LOCAL ASTM SUPPLEMENTAL

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

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

<u>Site</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>SUNDBERG SAND &amp; GRAVEL/OLYMPIA</b>	<b>2200 COOPER POINT ROAD</b>	<b>1/8 - 1/4 W</b>	<b>A1</b>	<b>6</b>



## EXECUTIVE SUMMARY

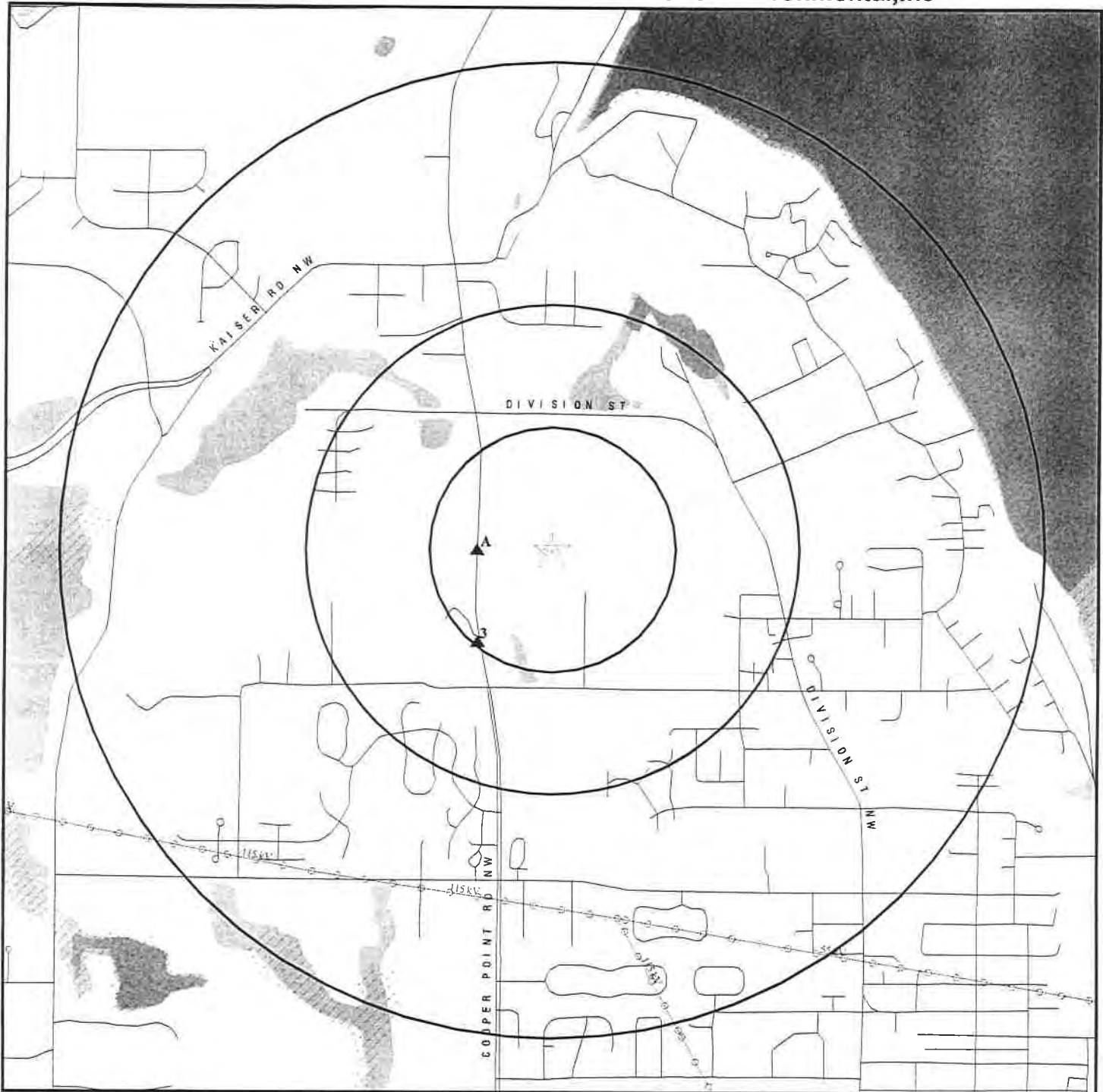
Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
NIELSEN PACIFIC, LTD.	UST
JOHNSON POINT ZITTLES MARINA	ERNS
COOPER POINT VILLAGE MART	FINDS
COOPER POINT LOG YARD	FINDS
COOPER POINT CHEVRON	FINDS
RICH COOPER	FINDS
PORT BLAKELY TF COOPER RD	FINDS
CAPITAL PEAK RADIO	WA ICR
HOLROYD COMPANY	WA ICR
OLYMPIA LINCOLN MERCURY	WA ICR
FIRESTONE	WA ICR
NORTHWEST DELI MART	WA ICR
VORTAC FACILITY	WA ICR
CAPITOL PEAK COMMUNICATION FACILITY	WA ICR





# OVERVIEW MAP - 1154879.2s - AMEC Earth & Environmental, Inc



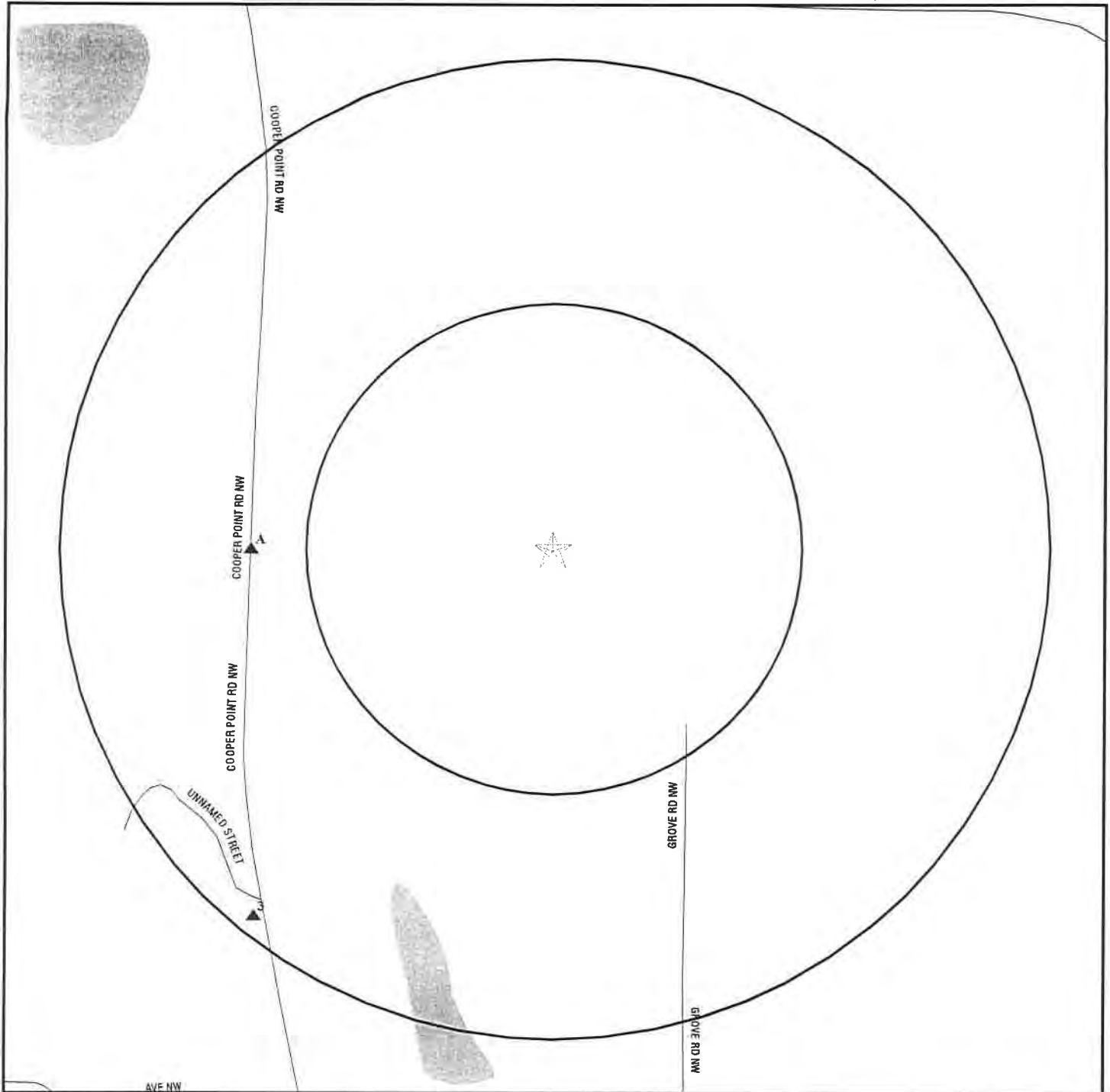
- Target Property
- ▲ Toxic Sites
- ▲ Coal Gasification Sites
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites

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

**TARGET PROPERTY:** Cooper Point  
**ADDRESS:** 2200 Cooper Point Rd NW  
**CITY/STATE/ZIP:** Olympia WA 98502  
**LAT/LONG:** 47.0672 / 122.9390

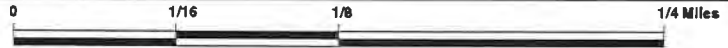
**CUSTOMER:** AMEC Earth & Environmental, Inc  
**CONTACT:** Elizabeth Mctyre  
**INQUIRY #:** 1154879.2s  
**DATE:** March 19, 2004 8:41 pm

**DETAIL MAP - 1154879.2s - AMEC Earth & Environmental, Inc**



- ☆ Target Property
- ▲ Toxic Sites
- ▲ Coal Gasification Sites
- ♣ Sensitive Receptors
- ☐ National Priority List Sites
- ☐ Landfill Sites
- ☐ Dept. Defense Sites

- Oil & Gas pipelines
- ☐ 100-year flood zone
- ☐ 500-year flood zone
- ☐ Federal Wetlands



**TARGET PROPERTY:** Cooper Point  
**ADDRESS:** 2200 Cooper Point Rd NW  
**CITY/STATE/ZIP:** Olympia WA 98502  
**LAT/LONG:** 47.0672 / 122.9390

**CUSTOMER:** AMEC Earth & Environmental, Inc  
**CONTACT:** Elizabeth Mctyre  
**INQUIRY #:** 1154879.2s  
**DATE:** March 19, 2004 8:41 pm

**MAP FINDINGS SUMMARY**

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
<b><u>FEDERAL ASTM STANDARD</u></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE ASTM STANDARD</u></b>								
CSCSL		1.000	0	0	0	0	NR	0
HSL		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	0	NR	NR	1
UST		0.250	0	2	NR	NR	NR	2
VCP		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<b><u>FEDERAL ASTM SUPPLEMENTAL</u></b>								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE OR LOCAL ASTM SUPPLEMENTAL</u></b>								
CSCSL NFA		0.500	0	0	0	NR	NR	0
WA ICR		0.500	0	1	0	NR	NR	1
SPILLS		TP	NR	NR	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
INST CONTROL		0.250	0	0	NR	NR	NR	0

**MAP FINDINGS SUMMARY**

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
WA Emissions		TP	NR	NR	NR	NR	NR	0
<b><u>EDR PROPRIETARY HISTORICAL DATABASES</u></b>								
Coal Gas		1.000	0	0	0	0	NR	0
<b><u>BROWNFIELDS DATABASES</u></b>								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0

**NOTES:**

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

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

**A1**  
 West  
 1/8-1/4  
 805 ft.

**SUNDBERG SAND & GRAVEL/OLYMPIA LOG YARD**  
 2200 COOPER POINT ROAD  
 OLYMPIA, WA 98502

**WA ICR S104487177**  
 N/A

Site 1 of 2 in cluster A

WA ICR:

Date Ecology Received Report: 04/05/1993  
 Contaminants Found at Site: Petroleum products  
 Media Contaminated: Soil  
 Cause of Contamination: Tank  
 Region: South Western  
 Type of Report Ecology Received: Interim cleanup report  
 Site Register Issue: 92-48  
 County Code: 34.00000  
 Contact: Not reported  
 Report Title: Not reported

Date Ecology Received Report: 04/01/1993  
 Contaminants Found at Site: Petroleum products  
 Media Contaminated: Soil  
 Cause of Contamination: Tank  
 Region: South Western  
 Type of Report Ecology Received: Final cleanup report  
 Site Register Issue: 93-06  
 County Code: 34.00000  
 Contact: Not reported  
 Report Title: Not reported

**A2**  
 West  
 1/8-1/4  
 805 ft.

**COOPER POINT LOG YARD**  
 2200 COOPER POINT ROAD  
 OLYMPIA, WA 98502

**LUST U003353252**  
 UST N/A

Site 2 of 2 in cluster A

LUST:

Facility ID:	11500	Ecology Region:	SWRO
Release ID:	4361	Release Date:	02/22/1993
Release Status:	Cleanup Started	Status Date:	02/22/1993
Alternate Name:	SUNDBERG GRAVEL PIT		
Lat/Lon	47 / 123		
Affected Media:	Soil		

Facility ID:	11500	Ecology Region:	SWRO
Release ID:	4361	Release Date:	02/22/1993
Release Status:	Reported Cleaned Up	Status Date:	04/05/1993
Alternate Name:	SUNDBERG GRAVEL PIT		
Lat/Lon	47 / 123		
Affected Media:	Soil		

MAP FINDINGS

Map ID  
Direction  
Distance  
Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

COOPER POINT LOG YARD (Continued)

U003353252

UST:  
Facility ID: 11500  
Install Date: 1/1/1984 0:00  
Capacity: Not reported  
Status: Removed  
Tank Name: 1  
Substance: Not reported  
Compartment #: 1  
Ecology Region: South Western

3  
SW  
1/8-1/4  
1265 ft.

COOPER PT. CHEVRON  
2205 COOPER PT. RD  
OLYMPIA, WA 98502

UST U003765733  
N/A

UST:  
Facility ID: 562233  
Install Date: 2/1/2001 0:00  
Capacity: Not reported  
Status: Operational  
Tank Name: 1  
Substance: UNLEADED GASOLINE  
Compartment #: 1  
Ecology Region: South Western

Facility ID: 562233  
Install Date: 2/1/2001 0:00  
Capacity: Not reported  
Status: Operational  
Tank Name: 2  
Substance: UNLEADED GASOLINE  
Compartment #: 1  
Ecology Region: South Western

Facility ID: 562233  
Install Date: 2/1/2001 0:00  
Capacity: Not reported  
Status: Operational  
Tank Name: 2  
Substance: DIESEL  
Compartment #: 2  
Ecology Region: South Western

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LACEY	U003353017	NIELSEN PACIFIC, LTD.	RT 12 PACIFIC HY SE	98502	UST
OLYMPIA	S103505788	CAPITAL PEAK RADIO	NE 1/4 SE 1/4 SECTION 11, T17N, R4W	98502	WA ICR
OLYMPIA	S103850550	HOLROYD COMPANY	ROUTE 12 PACIFIC HWY SE	98502	WA ICR
OLYMPIA	S103508487	OLYMPIA LINCOLN MERCURY	2201 CARRIAGE SW	98502	WA ICR
OLYMPIA	1007064893	COOPER POINT VILLAGE MART	3210 COOPER PT RD	98502	FINDS
OLYMPIA	1007064679	COOPER POINT LOG YARD	2200 COOPER PT RD	98502	FINDS
OLYMPIA	1007068284	COOPER POINT CHEVRON	2205 COPPER POINT ROAD	98502	FINDS
OLYMPIA	1007064995	RICH COOPER	9828 DEMPSY LN SW	98502	FINDS
OLYMPIA	S103504084	FIRESTONE	2800 W. HARRISON	98502	WA ICR
OLYMPIA	S103508428	NORTHWEST DELI MART	2400 W. HARRISON	98502	WA ICR
OLYMPIA	99610424	JOHNSON POINT ZITTLES MARINA	JOHNSON POINT ZITTLES MARINA		ERNS
OLYMPIA	S103508493	VORTAC FACILITY	OLYMPIA AIRPORT	98502	WA ICR
OLYMPIA	S103505789	CAPITOL PEAK COMMUNICATION FACILITY	T17N, R5W, SECTION 11	98502	WA ICR
OLYMPIA	1007079486	PORT BLAKELY TF COOPER RD	REMOTE PIT	98502	FINDS

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

## FEDERAL ASTM STANDARD RECORDS

### **NPL: National Priority List**

Source: EPA  
Telephone: N/A

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

Date of Government Version: 01/29/04  
Date Made Active at EDR: 02/27/04  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/06/04  
Elapsed ASTM days: 21  
Date of Last EDR Contact: 02/06/04

### **NPL Site Boundaries**

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 8  
Telephone: 303-312-6774

EPA Region 4  
Telephone 404-562-8033

### **Proposed NPL: Proposed National Priority List Sites**

Source: EPA  
Telephone: N/A

Date of Government Version: 01/07/04  
Date Made Active at EDR: 02/27/04  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/06/04  
Elapsed ASTM days: 21  
Date of Last EDR Contact: 02/06/04

### **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: 11/17/03  
Date Made Active at EDR: 02/02/04  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/22/03  
Elapsed ASTM days: 42  
Date of Last EDR Contact: 12/22/03

### **CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned**

Source: EPA  
Telephone: 703-413-0223

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



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/17/03  
Date Made Active at EDR: 02/02/04  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/22/03  
Elapsed ASTM days: 42  
Date of Last EDR Contact: 12/22/03

**CORRACTS:** Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/18/03  
Date Made Active at EDR: 02/02/04  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/26/03  
Elapsed ASTM days: 38  
Date of Last EDR Contact: 03/08/04

**RCRIS:** Resource Conservation and Recovery Information System

Source: EPA

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 01/12/04  
Date Made Active at EDR: 02/10/04  
Database Release Frequency: Varies

Date of Data Arrival at EDR: 01/19/04  
Elapsed ASTM days: 22  
Date of Last EDR Contact: 01/19/04

**ERNS:** Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-260-2342

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

Date of Government Version: 12/31/03  
Date Made Active at EDR: 03/12/04  
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/26/04  
Elapsed ASTM days: 46  
Date of Last EDR Contact: 01/26/04

## FEDERAL ASTM SUPPLEMENTAL RECORDS

**BRS:** Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01  
Database Release Frequency: Biennially

Date of Last EDR Contact: 03/16/04  
Date of Next Scheduled EDR Contact: 06/14/04

**CONSENT:** Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A  
Database Release Frequency: Varies

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **ROD: Records Of Decision**

Source: EPA

Telephone: 703-416-0223

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

Date of Government Version: 01/09/04

Database Release Frequency: Annually

Date of Last EDR Contact: 01/06/04

Date of Next Scheduled EDR Contact: 04/05/04

### **DELISTED NPL: National Priority List Deletions**

Source: EPA

Telephone: N/A

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

Date of Government Version: 01/29/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 02/06/04

Date of Next Scheduled EDR Contact: 05/01/04

### **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: 02/09/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/04

Date of Next Scheduled EDR Contact: 04/05/04

### **HMIRS: Hazardous Materials Information Reporting System**

Source: U.S. Department of Transportation

Telephone: 202-366-4555

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

Date of Government Version: 12/18/03

Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/04

Date of Next Scheduled EDR Contact: 04/19/04

### **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: 01/15/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/04

Date of Next Scheduled EDR Contact: 04/05/04

### **MINES: Mines Master Index File**

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959

Date of Government Version: 11/25/03

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/29/03

Date of Next Scheduled EDR Contact: 03/29/04

### **NPL LIENS: Federal Superfund Liens**

Source: EPA

Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Last EDR Contact: 03/12/04  
Date of Next Scheduled EDR Contact: 05/24/04

**PADS: PCB Activity Database System**

Source: EPA  
Telephone: 202-564-3887

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

Date of Government Version: 12/30/03  
Database Release Frequency: Annually

Date of Last EDR Contact: 02/09/04  
Date of Next Scheduled EDR Contact: 05/10/04

**DOD: Department of Defense Sites**

Source: USGS  
Telephone: 703-648-5423

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 10/01/03  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/02/04  
Date of Next Scheduled EDR Contact: 05/10/04

**STORMWATER: Storm Water General Permits**

Source: Environmental Protection Agency  
Telephone: 202 564-0746

A listing of all facilities with Storm Water General Permits.

Date of Government Version: N/A  
Database Release Frequency: Quarterly

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

**US BROWNFIELDS: A Listing of Brownfields Sites**

Source: Environmental Protection Agency  
Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments--EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/15/03  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/15/04  
Date of Next Scheduled EDR Contact: 06/14/04

**RMP: Risk Management Plans**

Source: Environmental Protection Agency  
Telephone: 202-564-8600

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Database Release Frequency: N/A

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

## **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: 03/08/04  
Date of Next Scheduled EDR Contact: 06/07/04

## **TRIS:** Toxic Chemical Release Inventory System

Source: EPA  
Telephone: 202-566-0250

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/01  
Database Release Frequency: Annually

Date of Last EDR Contact: 12/22/03  
Date of Next Scheduled EDR Contact: 03/22/04

## **TSCA:** Toxic Substances Control Act

Source: EPA  
Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/02  
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 03/05/04  
Date of Next Scheduled EDR Contact: 06/07/04

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

Source: EPA  
Telephone: 202-564-2501

Date of Government Version: 01/21/04  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03  
Date of Next Scheduled EDR Contact: 03/22/04

## **SSTS:** Section 7 Tracking Systems

Source: EPA  
Telephone: 202-564-5008

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/01  
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/04  
Date of Next Scheduled EDR Contact: 04/19/04

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/30/04  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03  
Date of Next Scheduled EDR Contact: 03/22/04

## STATE OF WASHINGTON ASTM STANDARD RECORDS

### **CSCSL: Confirmed & Suspected Contaminated Sites List**

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

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 01/14/04  
Date Made Active at EDR: 03/02/04  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/17/04  
Elapsed ASTM days: 14  
Date of Last EDR Contact: 02/17/04

### **HSL: Hazardous Sites List**

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

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

Date of Government Version: 08/26/03  
Date Made Active at EDR: 10/01/03  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 09/10/03  
Elapsed ASTM days: 21  
Date of Last EDR Contact: 03/09/04

### **SWF/LF: Solid Waste Facility Database**

Source: Department of Ecology  
Telephone: 360-407-6132

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/01/03  
Date Made Active at EDR: 12/10/03  
Database Release Frequency: Annually

Date of Data Arrival at EDR: 11/05/03  
Elapsed ASTM days: 35  
Date of Last EDR Contact: 01/06/04

### **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: 01/14/04  
Date Made Active at EDR: 01/27/04  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 01/15/04  
Elapsed ASTM days: 12  
Date of Last EDR Contact: 12/31/03

### **UST: Underground Storage Tank Database**

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

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/14/04  
Date Made Active at EDR: 02/06/04  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 01/15/04  
Elapsed ASTM days: 22  
Date of Last EDR Contact: 12/31/03

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## VCP: Voluntary Cleanup Program Sites

Source: Department of Ecology

Telephone: 360-407-7200

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

Date of Government Version: 02/18/04

Date Made Active at EDR: 03/02/04

Database Release Frequency: Varies

Date of Data Arrival at EDR: 02/18/04

Elapsed ASTM days: 13

Date of Last EDR Contact: 02/18/04

## INDIAN UST: Underground Storage Tanks on Indian Land

Source: EPA Region 10

Telephone: 206-553-2857

Date of Government Version: 12/09/03

Date Made Active at EDR: 01/12/04

Database Release Frequency: Varies

Date of Data Arrival at EDR: 12/09/03

Elapsed ASTM days: 34

Date of Last EDR Contact: 02/23/04

## STATE OF WASHINGTON ASTM SUPPLEMENTAL RECORDS

### CSCSL NFA: Confirmed & Contaminated Sites - No Further Action

Source: Department of Ecology

Telephone: 360-407-7170

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

Date of Government Version: 01/14/04

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/17/04

Date of Next Scheduled EDR Contact: 05/17/04

### ICR: Independent Cleanup Reports

Source: Department of Ecology

Telephone: 360-407-7200

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

Date of Government Version: 12/01/02

Database Release Frequency: Quarterly

Date of Last EDR Contact: 02/18/04

Date of Next Scheduled EDR Contact: 05/17/04

### SPILLS: Reported Spills

Source: Department of Ecology

Telephone: 360-407-7450

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

Date of Government Version: 01/08/04

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/06/04

Date of Next Scheduled EDR Contact: 04/05/04

### CDL: Clandestine Drug Lab Contaminated Site List

Source: Department of Health

Telephone: 360-236-3380

Illegal methamphetamine labs use hazardous chemicals that create public health hazards. Chemicals and residues can cause burns, respiratory and neurological damage, and death. Biological hazards associated with intravenous needles, feces, and blood also pose health risks.

Date of Government Version: 11/19/03

Database Release Frequency: Varies

Date of Last EDR Contact: 03/08/04

Date of Next Scheduled EDR Contact: 06/07/04

### INST CONTROL: Institutional Control Site List

Source: Department of Ecology

Telephone: 360-407-7170

Sites that have institutional controls.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/04/03  
Database Release Frequency: Varies

Date of Last EDR Contact: 03/09/04  
Date of Next Scheduled EDR Contact: 06/07/04

**EMI: Washington Emissions Data System**  
Source: Department of Ecology  
Telephone: 360-407-6040

Date of Government Version: 12/31/01  
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/04  
Date of Next Scheduled EDR Contact: 04/19/04

## LOCAL RECORDS

### **KING COUNTY:**

#### **Abandoned Landfill Study in King County**

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

The King County Abandoned Landfill Survey was conducted from October through December 1984 by the Health Department's Environmental Health Division at the request of the King County Council. The primary objective of the survey was to determine if any public health problems existed at the predetermined 24 sites.

Date of Government Version: 04/30/85  
Database Release Frequency: No Update Planned

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

### **SEATTLE COUNTY:**

#### **Abandoned Landfill Study in the City of Seattle**

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

The Seattle Abandoned Landfill Survey was conducted in June and July of 1984 by the Health Department's Environmental Health Division at the request of the Mayor's Office. The primary objective of the survey was to determine if any public health problems existed at the predetermined 12 sites.

Date of Government Version: 07/30/84  
Database Release Frequency: No Update Planned

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

### **SEATTLE/KING COUNTY:**

#### **Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project**

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

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

Date of Government Version: 12/31/86  
Database Release Frequency: No Update Planned

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

### **SNOHOMISH COUNTY:**

#### **Solid Waste Sites of Record at Snohomish Health District**

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

Date of Government Version: 01/12/04  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/23/04  
Date of Next Scheduled EDR Contact: 04/19/04

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## TACOMA/PIERCE COUNTY:

### Closed Landfill Survey

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

Following numerous requests for information about closed dumpsites and landfills in Pierce County, the Tacoma-Pierce County Health Department decided to conduct a study on the matter. The aim of the study was to evaluate public health risks associated with the closed dumpsites and landfills, and to determine the need, if any, for further investigations of a more detailed nature. The sites represent all of the known dumpsites and landfills closed after 1950.

Date of Government Version: 09/01/02  
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/19/03  
Date of Next Scheduled EDR Contact: N/A

### EDR PROPRIETARY HISTORICAL DATABASES

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

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### BROWNFIELDS DATABASES

#### VCP: Voluntary Cleanup Program Sites

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

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

Date of Government Version: 02/18/04  
Database Release Frequency: Varies

Date of Last EDR Contact: 02/18/04  
Date of Next Scheduled EDR Contact: 05/17/04

#### US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency  
Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities—especially those without EPA Brownfields Assessment Demonstration Pilots—minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients—States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: N/A  
Database Release Frequency: Semi-Annually

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



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

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

### **Electric Power Transmission Line Data**

Source: PennWell Corporation

Telephone: (800) 823-6277

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

### **AHA Hospitals:**

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### **Medical Centers: Provider of Services Listing**

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### **Nursing Homes**

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### **Public Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### **Private Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### **Daycare Centers: Daycare Center Listing**

Source: Department of Social & Health Services

Telephone: 253-383-1735

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## STREET AND ADDRESS INFORMATION

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## GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

COOPER POINT  
2200 COOPER POINT RD NW  
OLYMPIA, WA 98502

### TARGET PROPERTY COORDINATES

Latitude (North):	47.067200 - 47° 4' 1.9"
Longitude (West):	122.939003 - 122° 56' 20.4"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	504631.9
UTM Y (Meters):	5212415.0

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

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

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

## TOPOGRAPHIC INFORMATION

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

### **TARGET PROPERTY TOPOGRAPHY**

USGS Topographic Map: 47122-A8 TUMWATER, WA  
General Topographic Gradient: General NW  
Source: USGS 7.5 min quad index

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### **FEMA FLOOD ZONE**

<u>Target Property County</u>	<u>FEMA Flood</u>
THURSTON, WA	<u>Electronic Data</u>
	YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	5301880175C
Additional Panels in search area:	5301880160C
	5301910002B
	5301910001B

### **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic</u>
TUMWATER	<u>Data Coverage</u>
	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Site-Specific Hydrogeological Data\*:**

Search Radius: 1.25 miles  
Status: Not found

### AQUIFLOW®

Search Radius: 1.000 Mile.

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

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

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

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

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

### ROCK STRATIGRAPHIC UNIT

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

### GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: ALDERWOOD  
Soil Surface Texture: gravelly - sandy loam  
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.  
Soil Drainage Class: Moderately well drained. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
2	7 inches	35 inches	very gravelly - loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
3	35 inches	39 inches	cemented	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

### OTHER SOIL TYPES IN AREA

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

Soil Surface Textures: silt loam  
very gravelly - sandy loam

Surficial Soil Types: silt loam  
very gravelly - sandy loam

Shallow Soil Types: silt loam

Deeper Soil Types: very gravelly - coarse sand  
stratified  
very gravelly - sand  
very gravelly - loamy sand

### ADDITIONAL ENVIRONMENTAL RECORD SOURCES

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

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

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

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS1131933	1/8 - 1/4 Mile SSE
A2	USGS1132055	1/8 - 1/4 Mile NNE
A3	USGS1132125	1/8 - 1/4 Mile North
B4	USGS1131857	1/8 - 1/4 Mile SSW
5	USGS1131907	1/4 - 1/2 Mile SSW
6	USGS1132075	1/4 - 1/2 Mile NE
B7	USGS1131837	1/4 - 1/2 Mile SSW
8	USGS1131977	1/4 - 1/2 Mile WNW
9	USGS1132003	1/4 - 1/2 Mile West
D12	USGS1131985	1/4 - 1/2 Mile ENE
D13	USGS1132063	1/4 - 1/2 Mile ENE
E14	USGS1132132	1/4 - 1/2 Mile NE
15	USGS1132032	1/4 - 1/2 Mile East
E16	USGS1132138	1/4 - 1/2 Mile NE
17	USGS1131836	1/4 - 1/2 Mile SE
C18	USGS1131978	1/4 - 1/2 Mile West
19	USGS1132093	1/4 - 1/2 Mile NW
20	USGS1131989	1/4 - 1/2 Mile ENE
21	USGS1131908	1/4 - 1/2 Mile WSW
22	USGS1131835	1/4 - 1/2 Mile SE
23	USGS1132102	1/2 - 1 Mile NNW
F24	USGS1132116	1/2 - 1 Mile NE
25	USGS1132099	1/2 - 1 Mile NNE
G26	USGS1132117	1/2 - 1 Mile NNE
G27	USGS1132098	1/2 - 1 Mile NE
F28	USGS1132170	1/2 - 1 Mile NE
H29	USGS1132054	1/2 - 1 Mile ENE
30	USGS1132097	1/2 - 1 Mile NE
31	USGS1132092	1/2 - 1 Mile ENE
32	USGS1132100	1/2 - 1 Mile NW
G33	USGS1132185	1/2 - 1 Mile NNE
H34	USGS1132131	1/2 - 1 Mile ENE
I35	USGS1132259	1/2 - 1 Mile North
36	USGS1131925	1/2 - 1 Mile ESE
I37	USGS1132258	1/2 - 1 Mile North
38	USGS1131971	1/2 - 1 Mile East
J39	USGS1131941	1/2 - 1 Mile East
40	USGS1132172	1/2 - 1 Mile NNE
K41	USGS1132136	1/2 - 1 Mile ENE
L42	USGS1132260	1/2 - 1 Mile NNW
43	USGS1131723	1/2 - 1 Mile SE



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
M44	USGS1132176	1/2 - 1 Mile NE
45	USGS1131700	1/2 - 1 Mile South
N46	USGS1132257	1/2 - 1 Mile NNE
O47	USGS1131740	1/2 - 1 Mile South
K48	USGS1132137	1/2 - 1 Mile ENE
L49	USGS1132264	1/2 - 1 Mile NNW
J50	USGS1131924	1/2 - 1 Mile ESE
P51	USGS1132186	1/2 - 1 Mile NW
52	USGS1132216	1/2 - 1 Mile NNE
O53	USGS1131741	1/2 - 1 Mile South
M54	USGS1132111	1/2 - 1 Mile NE
55	USGS1131701	1/2 - 1 Mile SSW
56	USGS1131918	1/2 - 1 Mile WSW
Q57	USGS1132263	1/2 - 1 Mile NNE
58	USGS1131687	1/2 - 1 Mile SSW
59	USGS1131686	1/2 - 1 Mile South
N60	USGS1132215	1/2 - 1 Mile NNE
Q61	USGS1132208	1/2 - 1 Mile NNE
62	USGS1132169	1/2 - 1 Mile ENE
63	USGS1132118	1/2 - 1 Mile NW
64	USGS1131734	1/2 - 1 Mile SSW
R65	USGS1132178	1/2 - 1 Mile NW
P66	USGS1132179	1/2 - 1 Mile NW
67	USGS1132130	1/2 - 1 Mile ENE
68	USGS1132103	1/2 - 1 Mile NW
R69	USGS1132199	1/2 - 1 Mile NW
70	USGS1132177	1/2 - 1 Mile NE
71	USGS1132115	1/2 - 1 Mile NE
72	USGS1132040	1/2 - 1 Mile ENE
73	USGS1131923	1/2 - 1 Mile ESE
74	USGS1131685	1/2 - 1 Mile SSE
75	USGS1131735	1/2 - 1 Mile SSW
76	USGS1132311	1/2 - 1 Mile North
77	USGS1132201	1/2 - 1 Mile NW
78	USGS1132045	1/2 - 1 Mile West
79	USGS1132114	1/2 - 1 Mile NE
80	USGS1132061	1/2 - 1 Mile East
81	USGS1132305	1/2 - 1 Mile NNE
82	USGS1132328	1/2 - 1 Mile NNW
83	USGS1131688	1/2 - 1 Mile SW
84	USGS1132298	1/2 - 1 Mile NNW

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

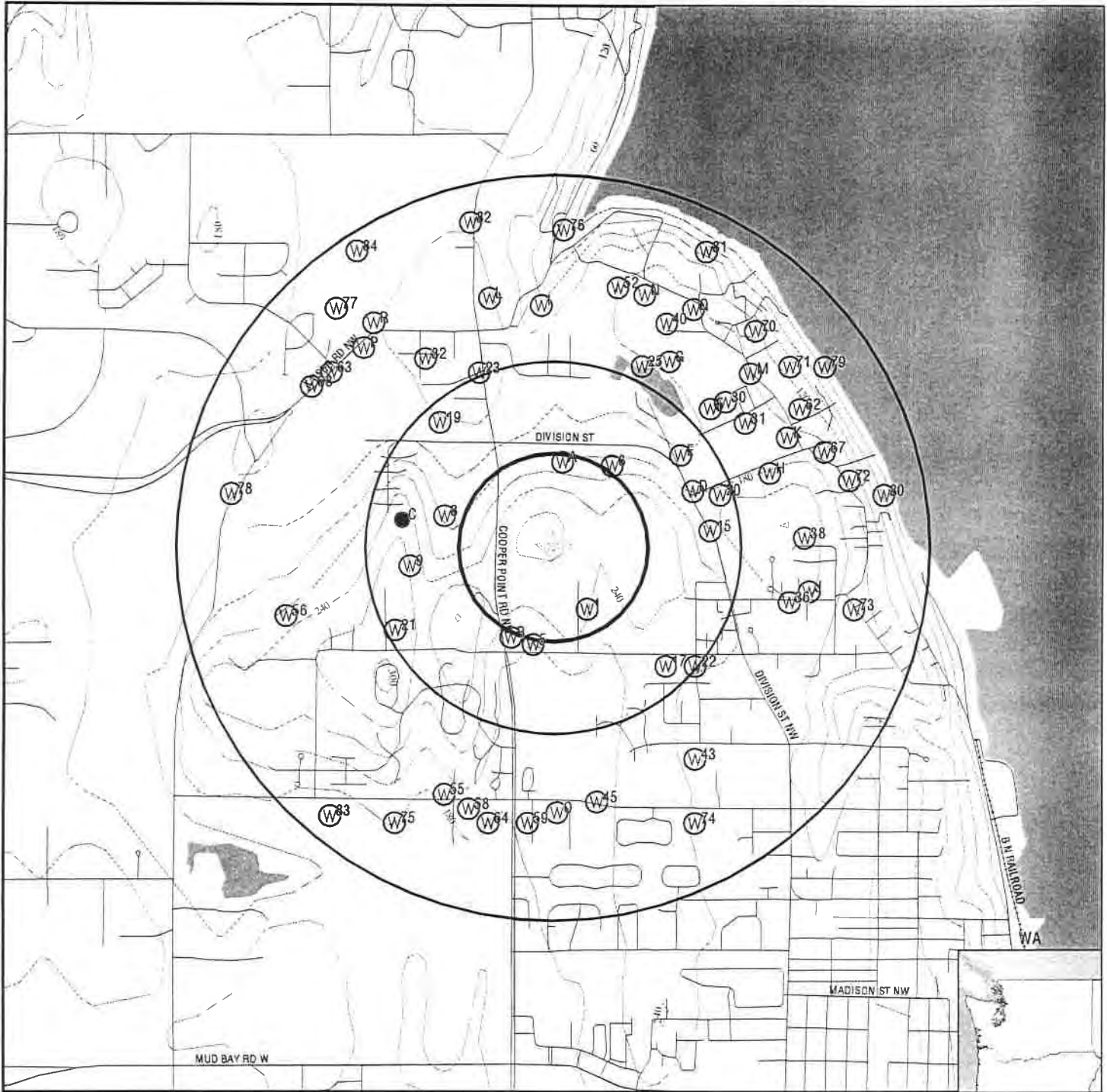
Note: PWS System location is not always the same as well location.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
C10	WAGRP0000007064	1/4 - 1/2 Mile West
C11	WAGRP0000005220	1/4 - 1/2 Mile West

# PHYSICAL SETTING SOURCE MAP - 1154879.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data

TARGET PROPERTY: Cooper Point  
 ADDRESS: 2200 Cooper Point Rd NW  
 CITY/STATE/ZIP: Olympia WA 98502  
 LAT/LONG: 47.0672 / 122.9390

CUSTOMER: AMEC Earth & Environmental, Inc  
 CONTACT: Elizabeth Mctyre  
 INQUIRY #: 1154879.2s  
 DATE: March 19, 2004 8:43 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**1**

**SSE**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS1131933**

Agency:	USGS	Site ID:	470354122560901
Site Name:	18N/02W-09G01		
Dec. Latitude:	47.06482		
Dec. Longitude:	-122.93709		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	248		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19820712	Inven Date:	19880913
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	191		
Hole depth:	191	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1982-07-12	110	

**A2**

**NNE**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS1132055**

Agency:	USGS	Site ID:	470413122561201
Site Name:	18N/02W-04Q01		
Dec. Latitude:	47.07037		
Dec. Longitude:	-122.93792		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	180		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590924
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	9		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-24	4.5	

**A3**  
North  
1/8 - 1/4 Mile  
Lower

FED USGS USGS1132125

Agency:	USGS	Site ID:	470414122562501
Site Name:	18N/02W-04P01		
Dec. Latitude:	47.07065		
Dec. Longitude:	-122.93903		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	180		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590924
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	10		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-24	5.8	

**B4**  
SSW  
1/8 - 1/4 Mile  
Lower

FED USGS USGS1131857

Agency:	USGS	Site ID:	470351122562401
Site Name:	18N/02W-09F01		
Dec. Latitude:	47.06399		
Dec. Longitude:	-122.94125		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	220		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19580101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	9		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**5**  
**SSW**  
1/4 - 1/2 Mile  
Lower

**FED USGS      USGS1131907**

Agency:	USGS	Site ID:	470349122562001
Site Name:	18N/02W-09F03		
Dec. Latitude:	47.06343		
Dec. Longitude:	-122.94014		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	200		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19660101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	Not Reported		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**6**  
**NE**  
1/4 - 1/2 Mile  
Lower

**FED USGS      USGS1132075**

Agency:	USGS	Site ID:	470415122555801
Site Name:	18N/02W-04Q02		
Dec. Latitude:	47.07037		
Dec. Longitude:	-122.9357		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	180		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	1960
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	38		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1960-01-01	10	

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**B7**  
**SSW**  
 1/4 - 1/2 Mile  
 Lower

**FED USGS      USGS1131837**

Agency:	USGS	Site ID:	470346122562201
Site Name:	18N/02W-09F02		
Dec. Latitude:	47.06343		
Dec. Longitude:	-122.94153		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	205		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19660101	Inven Date:	19660101
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	136		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**8**  
**WNW**  
 1/4 - 1/2 Mile  
 Lower

**FED USGS      USGS1131977**

Agency:	USGS	Site ID:	470407122563801
Site Name:	18N/02W-09D01		
Dec. Latitude:	47.06843		
Dec. Longitude:	-122.94514		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	178		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19781211	Inven Date:	19880913
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	67		
Hole depth:	67	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1990-07-27	28.80		1988-09-13	29.56	

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**9**  
**West**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS1132003**

Agency:	USGS	Site ID:	470400122564501
Site Name:	18N/02W-09E02		
Dec. Latitude:	47.06649		
Dec. Longitude:	-122.94709		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	9999.99		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19940719	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	000OVBD		
Aquifer type:	Not Reported		
Well depth:	62		
Hole depth:	64	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1994-07-25	43	

**C10**  
**West**  
**1/4 - 1/2 Mile**  
**Lower**

**WA WELLS      WAGRP0000007064**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Source Name:	WELL #2	Range:	02W
Township:	18	Section:	09
QTR Section:	NWNW	Source Type:	W
Source Use:	P	SP X:	1390560
SP Y:	642173	PWS Name:	WOODLAND PARK UTILITY ASSN
PWS ID:	98187	Source:	02
Key ID:	9818702		

**C11**  
West  
1/4 - 1/2 Mile  
Lower

**WA WELLS    WAGRP0000005220**

Source Name:	WELL #1	Range:	02W
Township:	18	Section:	09
QTR Section:	NWNW	Source Type:	W
Source Use:	P	SP X:	1390560
SP Y:	642173	PWS Name:	WOODLAND PARK UTILITY ASSN
PWS ID:	98187	Source:	01
Key ID:	9818701		

**D12**  
ENE  
1/4 - 1/2 Mile  
Lower

**FED USGS    USGS1131985**

Agency:	USGS	Site ID:	470409122554701
Site Name:	18N/02W-04R05		
Dec. Latitude:	47.06898		
Dec. Longitude:	-122.93098		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	170		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	20		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**D13**  
ENE  
1/4 - 1/2 Mile  
Lower

**FED USGS    USGS1132063**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470412122554801
Site Name:	18N/02W-04R06		
Dec. Latitude:	47.06982		
Dec. Longitude:	-122.93125		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	9999.99		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19780101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	000OVBD		
Aquifer type:	Not Reported		
Well depth:	113.4		
Hole depth:	114	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1978-01-01	31.83	

**E14**  
**NE**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS1132132**

Agency:	USGS	Site ID:	470416122555101
Site Name:	18N/02W-04R01		
Dec. Latitude:	47.07093		
Dec. Longitude:	-122.93209		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	130		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	12		
Hole depth:	Not Reported	Source:	owner
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**15**  
**East**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS1132032**

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency: USGS Site ID: 470407122554501  
 Site Name: 18N/02W-09A01  
 Dec. Latitude: 47.06787  
 Dec. Longitude: -122.93014  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 195  
 Hydrologic code: 17110019  
 Topographic: Valley flat  
 Site Type: Ground-water other than Spring  
 Const Date: 19590101 Inven Date: 19590925  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 91  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-25	85	

**E16**  
**NE**  
**1/4 - 1/2 Mile**  
**Lower**

FED USGS USGS1132138

Agency: USGS Site ID: 470419122554101  
 Site Name: 18N/02W-04R03  
 Dec. Latitude: 47.07065  
 Dec. Longitude: -122.93153  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 145  
 Hydrologic code: 17110019  
 Topographic: Hillside (slope)  
 Site Type: Ground-water other than Spring  
 Const Date: 19590101 Inven Date: 19590928  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 46  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-28	7.2	

**17**  
**SE**  
**1/4 - 1/2 Mile**  
**Lower**

FED USGS USGS1131836

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470346122555301
Site Name:	18N/02W-09H01		
Dec. Latitude:	47.0626		
Dec. Longitude:	-122.93264		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	215		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19660101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	Not Reported		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**C18**  
**West**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS1131978**

Agency:	USGS	Site ID:	470407122564901
Site Name:	18N/02W-09D02		
Dec. Latitude:	47.06843		
Dec. Longitude:	-122.9482		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	250		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	19880706
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	104		
Hole depth:	Not Reported	Source:	owner
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

1988-07-06	20.47	
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Note: The site had been pumped recently.

**19**  
**NW**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS1132093**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470420122563901
Site Name:	18N/02W-04N01		
Dec. Latitude:	47.07204		
Dec. Longitude:	-122.94542		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	140		
Hydrologic code:	17110019		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19550101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	10		
Hole depth:	Not Reported	Source:	owner
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**20**  
**ENE**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS    USGS1131989**

Agency:	USGS	Site ID:	470410122554201
Site Name:	18N/02W-04R02		
Dec. Latitude:	47.06926		
Dec. Longitude:	-122.92959		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	180		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19520101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	28		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**21**  
**WSW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS    USGS1131908**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470349122563501
Site Name:	18N/02W-09E01		
Dec. Latitude:	47.06399		
Dec. Longitude:	-122.94792		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	290		
Hydrologic code:	17110019		
Topographic:	Hilltop		
Site Type:	Ground-water other than Spring		
Const Date:	19580101	Inven Date:	195809
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	144		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1958-09-01	131	

**22**  
**SE**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS1131835**

Agency:	USGS	Site ID:	470346122554701
Site Name:	18N/02W-09H02		
Dec. Latitude:	47.0626		
Dec. Longitude:	-122.93097		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	205		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	Not Reported		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**23**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132102**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency: USGS Site ID: 470425122563101  
 Site Name: 18N/02W-04L01  
 Dec. Latitude: 47.07399  
 Dec. Longitude: -122.9432  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 165  
 Hydrologic code: 17110019  
 Topographic: Hillside (slope)  
 Site Type: Ground-water other than Spring  
 Const Date: 19590101 Inven Date: 19590924  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 25  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-24	21.6	

**F24**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

FED USGS USGS1132116

Agency: USGS Site ID: 470428122553801  
 Site Name: 18N/02W-04J05  
 Dec. Latitude: 47.0726  
 Dec. Longitude: -122.9307  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 150  
 Hydrologic code: 17110019  
 Topographic: Hillside (slope)  
 Site Type: Ground-water other than Spring  
 Const Date: 19520101 Inven Date: 19590928  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 117  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-28	54	

**25**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

FED USGS USGS1132099

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470423122555801
Site Name:	18N/02W-04K01		
Dec. Latitude:	47.07426		
Dec. Longitude:	-122.93403		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	140		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590924
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	76		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-24	4.5	

**G26**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132117**

Agency:	USGS	Site ID:	470428122555301
Site Name:	18N/02W-04J02		
Dec. Latitude:	47.07426		
Dec. Longitude:	-122.93264		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	155		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19520101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	26		
Hole depth:	Not Reported	Source:	owner
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**G27**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132098**



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470423122555501
Site Name:	18N/02W-04J03		
Dec. Latitude:	47.07399		
Dec. Longitude:	-122.93181		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	155		
Hydrologic code:	17110019		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19710101	Inven Date:	19710101
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	13		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----	-----	-----
1971-01-01	11	

**F28**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS    USGS1132170**

Agency:	USGS	Site ID:	470429122554001
Site Name:	18N/02W-04J06		
Dec. Latitude:	47.0726		
Dec. Longitude:	-122.92959		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	155		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19470101	Inven Date:	19590929
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	65		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----	-----	-----
1959-09-29	31.8	

**H29**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS    USGS1132054**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470413122553301
Site Name:	18N/02W-03N03		
Dec. Latitude:	47.0701		
Dec. Longitude:	-122.92709		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	165		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19620101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	11		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**30**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132097**

Agency:	USGS	Site ID:	470423122554101
Site Name:	18N/02W-04J04		
Dec. Latitude:	47.07287		
Dec. Longitude:	-122.92931		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	140		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19710101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	18		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**31**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132092**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency: USGS ID: 470431122555501  
 Site Name: 18N/02W-04J01  
 Dec. Latitude: 47.0751  
 Dec. Longitude: -122.93292  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 160  
 Hydrologic code: 17110019  
 Topographic: Hillside (slope)  
 Site Type: Ground-water other than Spring  
 Const Date: 19590101 Inven Date: 19590902  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 15  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-02	11.7	

**H34**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

FED USGS USGS1132131

Agency: USGS Site ID: 470416122553301  
 Site Name: 18N/02W-03N02  
 Dec. Latitude: 47.0701  
 Dec. Longitude: -122.92653  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 160  
 Hydrologic code: 17110019  
 Topographic: Hillside (slope)  
 Site Type: Ground-water other than Spring  
 Const Date: 19590101 Inven Date: 19590925  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 15  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-25	13.5	

**I35**  
**North**  
**1/2 - 1 Mile**  
**Lower**

FED USGS USGS1132259

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470420122553701
Site Name:	18N/02W-04R04		
Dec. Latitude:	47.07204		
Dec. Longitude:	-122.9282		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	150		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19550101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	11		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**32  
NW  
1/2 - 1 Mile  
Lower**

**FED USGS    USGS1132100**

Agency:	USGS	Site ID:	470424122564401
Site Name:	18N/02W-04M01		
Dec. Latitude:	47.07454		
Dec. Longitude:	-122.94625		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	150		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590924
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	14		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-24	11.7	

**G33  
NNE  
1/2 - 1 Mile  
Lower**

**FED USGS    USGS1132185**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470437122561801
Site Name:	18N/02W-04F03		
Dec. Latitude:	47.07648		
Dec. Longitude:	-122.94014		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	98		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19620101	Inven Date:	19880804
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	419		
Hole depth:	420	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1962-06-26	40	

**36**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1131925**

Agency:	USGS	Site ID:	470355122552801
Site Name:	18N/02W-10E01		
Dec. Latitude:	47.0651		
Dec. Longitude:	-122.9257		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	200		
Hydrologic code:	17110019		
Topographic:	Hilltop		
Site Type:	Ground-water other than Spring		
Const Date:	19580101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	22		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**137**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132258**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470437122561701
Site Name:	18N/02W-04F01		
Dec. Latitude:	47.07676		
Dec. Longitude:	-122.93931		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	100		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19620101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	420		
Hole depth:	Not Reported	Source:	reporting agency (generally USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1962-06-01	40	

**38**  
East  
1/2 - 1 Mile  
Lower

**FED USGS    USGS1131971**

Agency:	USGS	Site ID:	470404122552801
Site Name:	18N/02W-10D02		
Dec. Latitude:	47.0676		
Dec. Longitude:	-122.92486		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	220		
Hydrologic code:	17110019		
Topographic:	Hilltop		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	1960
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	19		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-01-01	14	

**J39**  
East  
1/2 - 1 Mile  
Lower

**FED USGS    USGS1131941**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470357122552201
Site Name:	18N/02W-10D01		
Dec. Latitude:	47.06593		
Dec. Longitude:	-122.92486		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	220		
Hydrologic code:	17110019		
Topographic:	Hilltop		
Site Type:	Ground-water other than Spring		
Const Date:	19580101	Inven Date:	1960
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	17		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**40**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132172**

Agency:	USGS	Site ID:	470430122554801
Site Name:	18N/02W-04J08		
Dec. Latitude:	47.07593		
Dec. Longitude:	-122.93264		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	170		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19781228	Inven Date:	19880927
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	125		
Hole depth:	125	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

1978-12-28	33	
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**K41**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132136**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470417122552901
Site Name:	18N/02W-03N04		
Dec. Latitude:	47.07121		
Dec. Longitude:	-122.92597		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	160		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	90		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**L42  
NNW  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS1132260**

Agency:	USGS	Site ID:	470437122562801
Site Name:	18N/02W-04F05		
Dec. Latitude:	47.07676		
Dec. Longitude:	-122.94236		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	9999.99		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19880201	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	86		
Hole depth:	86	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1988-02-01	49.5	

**43  
SE  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS1131723**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency: USGS Site ID: 470334122554601  
 Site Name: 18N/02W-09J01  
 Dec. Latitude: 47.05899  
 Dec. Longitude: -122.93097  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 200  
 Hydrologic code: 17110019  
 Topographic: Hillside (slope)  
 Site Type: Ground-water other than Spring  
 Const Date: 19590101 Inven Date: 19590923  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 34  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-23	19.4	

**M44**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

FED USGS USGS1132176

Agency: USGS Site ID: 470431122554001  
 Site Name: 18N/02W-04J07  
 Dec. Latitude: 47.07399  
 Dec. Longitude: -122.92847  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 155  
 Hydrologic code: 17110019  
 Topographic: Hillside (slope)  
 Site Type: Ground-water other than Spring  
 Const Date: 19590101 Inven Date: 19590928  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 41  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-28	34.6	

**45**  
**South**  
**1/2 - 1 Mile**  
**Lower**

FED USGS USGS1131700

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency: USGS Site ID: 470328122560401  
 Site Name: 18N/02W-09Q01  
 Dec. Latitude: 47.05732  
 Dec. Longitude: -122.93653  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 205  
 Hydrologic code: 17110019  
 Topographic: Flat surface  
 Site Type: Ground-water other than Spring  
 Const Date: 19590101 Inven Date: 1960  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 112  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-01-01	100	

**N46**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

FED USGS USGS1132257

Agency: USGS Site ID: 470437122555901  
 Site Name: 18N/02W-04G03  
 Dec. Latitude: 47.07676  
 Dec. Longitude: -122.93431  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 156  
 Hydrologic code: 17110019  
 Topographic: Not Reported  
 Site Type: Ground-water other than Spring  
 Const Date: 19791001 Inven Date: 19880915  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 97  
 Hole depth: 113 Source: driller  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1990-07-27	9.86		1988-09-15	10.97	

**O47**  
**South**  
**1/2 - 1 Mile**  
**Lower**

FED USGS USGS1131740

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470326122561601
Site Name:	18N/02W-09P05		
Dec. Latitude:	47.05704		
Dec. Longitude:	-122.93903		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	200		
Hydrologic code:	17110019		
Topographic:	Hilltop		
Site Type:	Ground-water other than Spring		
Const Date:	19540101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	120		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**K48**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132137**

Agency:	USGS	Site ID:	470419122552901
Site Name:	18N/02W-03N05		
Dec. Latitude:	47.07176		
Dec. Longitude:	-122.9257		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	150		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590928
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	12		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel
1959-09-28	6.9	

**L49**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132264**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470438122563001
Site Name:	18N/02W-04F04		
Dec. Latitude:	47.07704		
Dec. Longitude:	-122.94292		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	160		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19710101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	110		
Hole depth:	Not Reported	Source:	reporting agency (generally USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1971-01-01	48	

**J50**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1131924**

Agency:	USGS	Site ID:	470355122552301
Site Name:	18N/02W-10E02		
Dec. Latitude:	47.0651		
Dec. Longitude:	-122.92431		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	200		
Hydrologic code:	17110019		
Topographic:	Hilltop		
Site Type:	Ground-water other than Spring		
Const Date:	19580101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	100		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**P51**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132186**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470431122565301
Site Name:	18N/02W-05J04		
Dec. Latitude:	47.07454		
Dec. Longitude:	-122.94959		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	145		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19540101	Inven Date:	195410
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	70		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1954-10-01	21	

**52**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132216**

Agency:	USGS	Site ID:	470439122560001
Site Name:	18N/02W-04G02		
Dec. Latitude:	47.07732		
Dec. Longitude:	-122.93542		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	145		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590828
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	15		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-08-28	10.2	

**O53**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1131741**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470326122561901
Site Name:	18N/02W-09P04		
Dec. Latitude:	47.05676		
Dec. Longitude:	-122.93848		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	205		
Hydrologic code:	17110019		
Topographic:	Hilltop		
Site Type:	Ground-water other than Spring		
Const Date:	19550101	Inven Date:	1960
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	120		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-01-01	95	

**M54**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132111**

Agency:	USGS	Site ID:	470427122553401
Site Name:	18N/02W-03M04		
Dec. Latitude:	47.07399		
Dec. Longitude:	-122.92736		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	140		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19440101	Inven Date:	19590928
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	85		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-28	49.4	

**55**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1131701**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470328122563701
Site Name:	18N/02W-09N02		
Dec. Latitude:	47.0576		
Dec. Longitude:	-122.94514		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	180		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	1960
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	29		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-01-01	7	

**56**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1131918**

Agency:	USGS	Site ID:	470353122571001
Site Name:	18N/02W-08H01		
Dec. Latitude:	47.06454		
Dec. Longitude:	-122.95403		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	230		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	7		
Hole depth:	Not Reported	Source:	owner
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-08-01		

Note: The site was flowing, but the head could not be measured without additional equipment.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**Q57**

**NNE**

**1/2 - 1 Mile**

**Lower**

**FED USGS      USGS1132263**

Agency:	USGS	Site ID:	470438122554301
Site Name:	18N/02W-04H02		
Dec. Latitude:	47.07621		
Dec. Longitude:	-122.9307		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	140		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19580101	Inven Date:	19580617
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	000OVBD		
Aquifer type:	Not Reported		
Well depth:	136		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1958-06-17	55	

**58**

**SSW**

**1/2 - 1 Mile**

**Lower**

**FED USGS      USGS1131687**

Agency:	USGS	Site ID:	470326122563301
Site Name:	18N/02W-09P01		
Dec. Latitude:	47.05704		
Dec. Longitude:	-122.94375		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	190		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	30		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**59**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1131686**

Agency:	USGS	Site ID:	470326122562201
Site Name:	18N/02W-09P03		
Dec. Latitude:	47.05649		
Dec. Longitude:	-122.94042		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	185		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590923
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	10		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
Date		
1959-09-23	8.5	

**N60**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132215**

Agency:	USGS	Site ID:	470439122555601
Site Name:	18N/02W-04G01		
Dec. Latitude:	47.07732		
Dec. Longitude:	-122.93348		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	155		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19300101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	25		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**Q61**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132208**

Agency:	USGS	Site ID:	470437122554901
Site Name:	18N/02W-04H03		
Dec. Latitude:	47.07676		
Dec. Longitude:	-122.93153		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	9999.99		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19871120	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	000OVBD		
Aquifer type:	Not Reported		
Well depth:	120		
Hole depth:	120	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-11-25	38	

**62**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132169**

Agency:	USGS	Site ID:	470429122553501
Site Name:	18N/02W-03M02		
Dec. Latitude:	47.0726		
Dec. Longitude:	-122.92514		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	140		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590928
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	27		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-28	3.8	

**63**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132118**

Agency:	USGS	Site ID:	470428122570001
Site Name:	18N/02W-05J02		
Dec. Latitude:	47.07399		
Dec. Longitude:	-122.95153		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	150		
Hydrologic code:	17110019		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590806
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	18		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-08-06	11.8	

**64**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1131734**

Agency:	USGS	Site ID:	470325122562901
Site Name:	18N/02W-09P02		
Dec. Latitude:	47.05649		
Dec. Longitude:	-122.94264		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	180		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19570101	Inven Date:	195710
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	93		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1957-10-01	74	

**R65**  
NW  
1/2 - 1 Mile  
Lower

**FED USGS    USGS1132178**

Agency:	USGS	Site ID:	470433122565301
Site Name:	18N/02W-05J05		
Dec. Latitude:	47.07565		
Dec. Longitude:	-122.94931		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	140		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19540101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	14		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**P66**  
NW  
1/2 - 1 Mile  
Lower

**FED USGS    USGS1132179**

Agency:	USGS	Site ID:	470433122565801
Site Name:	18N/02W-05J01		
Dec. Latitude:	47.07537		
Dec. Longitude:	-122.94986		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	145		
Hydrologic code:	17110019		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590806
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	9		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-08-06	5.2	

**67**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132130**

Agency:	USGS	Site ID:	470416122552101
Site Name:	18N/02W-03N06		
Dec. Latitude:	47.07093		
Dec. Longitude:	-122.92375		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	159		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19800311	Inven Date:	19880927
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	159		
Hole depth:	159	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1980-03-11	140	

**68**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132103**

Agency:	USGS	Site ID:	470425122570501
Site Name:	18N/02W-05J03		
Dec. Latitude:	47.07343		
Dec. Longitude:	-122.95264		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	135		
Hydrologic code:	17110019		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	89		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

**R69**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

Database      EDR ID Number

**FED USGS      USGS1132199**

Agency:	USGS	Site ID:	470435122565201
Site Name:	18N/02W-04E01		
Dec. Latitude:	47.07621		
Dec. Longitude:	-122.94903		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	145		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19700101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	96		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**70**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132177**

Agency:	USGS	Site ID:	470433122553501
Site Name:	18N/02W-03M05		
Dec. Latitude:	47.07565		
Dec. Longitude:	-122.92764		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	120		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19540101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	100		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**71**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132115**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470428122552801
Site Name:	18N/02W-03M01		
Dec. Latitude:	47.07426		
Dec. Longitude:	-122.9257		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	110		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19280101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	27		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**72**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132040**

Agency:	USGS	Site ID:	470409122551201
Site Name:	18N/02W-03P02		
Dec. Latitude:	47.06982		
Dec. Longitude:	-122.92236		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	150		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590929
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	70		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel
1959-09-29	52.8	

**73**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1131923**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	470355122551801
Site Name:	18N/02W-10F01		
Dec. Latitude:	47.06482		
Dec. Longitude:	-122.92209		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	180		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19580101	Inven Date:	195812
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	97		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1958-12-01	83.2	

**74**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS    USGS1131685**

Agency:	USGS	Site ID:	470325122555301
Site Name:	18N/02W-09R01		
Dec. Latitude:	47.05649		
Dec. Longitude:	-122.93097		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	205		
Hydrologic code:	17110019		
Topographic:	Flat surface		
Site Type:	Ground-water other than Spring		
Const Date:	19580101	Inven Date:	1960
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	132		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**75**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS    USGS1131735**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency: USGS Site ID: 470325122564701  
 Site Name: 18N/02W-09N01  
 Dec. Latitude: 47.05649  
 Dec. Longitude: -122.94792  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 180  
 Hydrologic code: 17110019  
 Topographic: Hillside (slope)  
 Site Type: Ground-water other than Spring  
 Const Date: 19590101 Inven Date: 19590922  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 24  
 Hole depth: Not Reported Source: other government (other than USGS)  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-09-22	17.6	

**76**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS USGS1132311**

Agency: USGS Site ID: 470447122561401  
 Site Name: 18N/02W-04F02  
 Dec. Latitude: 47.07954  
 Dec. Longitude: -122.93848  
 Coord Sys: NAD83  
 State: WA  
 County: Thurston County  
 Altitude: 20  
 Hydrologic code: 17110019  
 Topographic: Not Reported  
 Site Type: Ground-water other than Spring  
 Const Date: 19010101 Inven Date: 19780515  
 Well Type: Single well, other than collector or Ranney type  
 Primary Aquifer: Not Reported  
 Aquifer type: Not Reported  
 Well depth: 400  
 Hole depth: Not Reported Source: other  
 Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1978-05-15		

1978-05-15

Note: The site was flowing, but the head could not be measured without additional equipment.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**77**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132201**

Agency:	USGS	Site ID:	470436122570001
Site Name:	18N/02W-05H01		
Dec. Latitude:	47.07648		
Dec. Longitude:	-122.95125		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	140		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19790518	Inven Date:	19880623
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	60		
Hole depth:	60	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1979-05-18	12	

**78**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132045**

Agency:	USGS	Site ID:	470411122572001
Site Name:	18N/02W-05Q01		
Dec. Latitude:	47.06926		
Dec. Longitude:	-122.95709		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	145		
Hydrologic code:	17110019		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	19590806
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	12		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1959-08-06	6.1	

**79**  
NE  
1/2 - 1 Mile  
Lower

**FED USGS      USGS1132114**

Agency:	USGS	Site ID:	470428122552101
Site Name:	18N/02W-03(1)		
Dec. Latitude:	47.07426		
Dec. Longitude:	-122.92375		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	10		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19280101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	234		
Hole depth:	Not Reported	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

**80**  
East  
1/2 - 1 Mile  
Lower

**FED USGS      USGS1132061**

Agency:	USGS	Site ID:	470412122551101
Site Name:	18N/02W-03P01		
Dec. Latitude:	47.06926		
Dec. Longitude:	-122.92042		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	70		
Hydrologic code:	17110019		
Topographic:	Hillside (slope)		
Site Type:	Ground-water other than Spring		
Const Date:	19590101	Inven Date:	1960
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	38		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-01-01	29	

**81**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132305**

Agency:	USGS	Site ID:	470446122554501
Site Name:	18N/02W-04H01		
Dec. Latitude:	47.07871		
Dec. Longitude:	-122.93042		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	20		
Hydrologic code:	17110019		
Topographic:	Stream channel		
Site Type:	Ground-water other than Spring		
Const Date:	19600101	Inven Date:	19600705
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	387		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-01-01		

Note: The site was flowing, but the head could not be measured without additional equipment.

**82**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS1132328**

Agency:	USGS	Site ID:	470448122563301
Site Name:	18N/02W-04D01		
Dec. Latitude:	47.07982		
Dec. Longitude:	-122.94375		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	145		
Hydrologic code:	17110019		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19871206	Inven Date:	19880629
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	69		
Hole depth:	69	Source:	driller
Project no:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1990-07-26	37.32				
1988-09-27	31.62				

Note: Other conditions existed that would affect the measured water level.

**83**

**SW**

**1/2 - 1 Mile**

**Lower**

**FED USGS**

**USGS1131688**

Agency:	USGS	Site ID:	470326122570101
Site Name:	18N/02W-08R03		
Dec. Latitude:	47.05676		
Dec. Longitude:	-122.95153		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	155		
Hydrologic code:	17110019		
Topographic:	Lake, swamp or marsh		
Site Type:	Ground-water other than Spring		
Const Date:	19520101	Inven Date:	195209
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	91		
Hole depth:	Not Reported	Source:	other government (other than USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1952-09-01	68.5	

**84**

**NNW**

**1/2 - 1 Mile**

**Lower**

**FED USGS**

**USGS1132298**

Agency:	USGS	Site ID:	470444122565601
Site Name:	18N/02W-05H02		
Dec. Latitude:	47.07871		
Dec. Longitude:	-122.95014		
Coord Sys:	NAD83		
State:	WA		
County:	Thurston County		
Altitude:	130		
Hydrologic code:	17110019		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19710101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	23		
Hole depth:	Not Reported	Source:	owner
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal 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.

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Federal Area Radon Information for Zip Code: 98502

Number of sites tested: 7

<u>Area</u>	<u>Average Activity</u>	<u>% &lt;4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% &gt;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%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### **USGS 7.5' Digital Elevation Model (DEM)**

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### **AQUIFLOW<sup>R</sup> Information System**

Source: EDR proprietary database of groundwater flow information

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

## GEOLOGIC INFORMATION

### **Geologic Age and Rock Stratigraphic Unit**

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

### **STATSGO: State Soil Geographic Database**

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

## ADDITIONAL ENVIRONMENTAL RECORD SOURCES

### **FEDERAL WATER WELLS**

#### **PWS: Public Water Systems**

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

#### **PWS ENF: Public Water Systems Violation and Enforcement Data**

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

#### **USGS Water Wells: USGS National Water Inventory System (NWIS)**

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STATE RECORDS

### Water Wells

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

### Kitsap County Water Wells in Washington

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

## RADON

### Area Radon Information

Source: USGS  
Telephone: 703-356-4020  
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

### EPA Radon Zones

Source: EPA  
Telephone: 703-356-4020  
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## OTHER

**Airport Landing Facilities:** Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

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



**APPENDIX B**  
**SITE PHOTOGRAPHS**

**SITE PHOTOGRAPHS  
2200 COOPER POINT**



**Photo 1:** North-facing view of gravel pit from the southwest corner of the site.



**Photo 2:** Standing water at northeast area of gravel pit.

**SITE PHOTOGRAPHS  
2200 COOPER POINT**



**Photo 3:** Sifting equipment in center of gravel pit.



**Photo 4:** North-facing view of northeast portion of site.

**SITE PHOTOGRAPHS  
2200 COOPER POINT**



**Photo 5:** Southeast-facing view of office/residence.



**Photo 6:** Rear of office/residence.

**SITE PHOTOGRAPHS  
2200 COOPER POINT**



**Photo 7:** Well house east of office/residence.



**Photo 8:** Diesel AST and truck parking near garage.

**SITE PHOTOGRAPHS  
2200 COOPER POINT**



**Photo 9:** Equipment parking and ground staining near garage.



**Photo 10:** Storage of oil and drive train fluid 55-gallon drums in garage.

**SITE PHOTOGRAPHS  
2200 COOPER POINT**



**Photo 11:** Ground staining within garage.

**APPENDIX C**

**THURSTON COUNTY ASSESSOR'S OFFICE RECORDS**







# Thurston County Assessor

Basic information  
Property: 8170000000

Use these buttons to display different information for this property

[New Search](#)
[Basic Info](#)
[Values](#)
[Structures](#)
[Permits](#)
[Sales](#)
[Feedback](#)
[Map Info](#)

## Owner/Taxpayer Information

Role	Pct	Name Street	City	State Country	Zip
Owner	100%	PETTUS CO-TRUSTEE, BARBARA J PO BOX 11995	OLYMPIA	WA	98508
Owner	100%	SUNDBERG CO-TRUSTEE, THEODORE A PO BOX 11995	OLYMPIA	WA	98508-1995
Taxpayer	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA	98508

## Parcel Information

Situs Address:	2200 COOPER POINT RD NW OLYMPIA <a href="#">Yahoo</a>
Legal Description:	VILLA PARK L 3 B 1 L 1 & 2 B 4 LESS MINERAL RTS
Sect/Town/Range:	09 18 2W
Size:	27.40 Acres
Use Code:	85 Mining
TCA Number:	160
Neighborhood:	12U1
Property Type:	INDUSTRIAL
Taxable:	YES
Fire District:	FIRE DISTRICT #09
School District:	OLYMPIA S.D. #111

## Office of the Assessor

Patricia Costello, Assessor

2000 Lakeridge Drive SW - Olympia, WA 98502

Customer Service (360)786-5410 -- Fax (360)754-2958 -- TDD (360)754-2933



# Thurston County Assessor

Valu  
Propert

Use these buttons to display different information for this property

- [New Search](#) · [Basic Info](#) · [Values](#) · [Structures](#) ·
- [Permits](#) · [Sales](#) · [Feedback](#) · [Map Info](#) ·

### Value Information

Tax Year Assessment Year	2004	2003	2002	2001	2000	1999
	2003	2002	2001	2000	1999	1998
Market Value Buildings			\$3,000	\$3,000	\$5,200	\$5,200
Market Value Land	\$157,800	\$157,800	\$142,500	\$142,500	\$142,500	\$142,500
Market Value Total	\$157,800	\$157,800	\$145,500	\$145,500	\$147,700	\$147,700

**Please note:** Current year taxes are calculated on the prior assessment year market value, less adjustments for approved exemptions

### Exemption Information

Active exemptions: None

**Office of the Assessor**  
**Patricia Costello, Assessor**  
 2000 Lakeridge Drive SW - Olympia, WA 98502  
**Customer Service (360)786-5410 -- Fax (360)754-2958 -- TDD (360)754-2933**



# Thurston County Assessor

Struct  
Propert

Use these buttons to display different information for this property

- New Search
- Basic Info
- Values
- Structures
- Permits
- Sales
- Feedback
- Map Info

**No structure records on file.**

**Office of the Assessor**

**Patricia Costello, Assessor**

2000 Lakeridge Drive SW - Olympia, WA 98502

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# Thurston County Assessor

Pe  
ii  
Propert

Use these buttons to display different information for this property

· New Search · Basic Info · Values · Structures ·  
· Permits · Sales · Feedback · Map Info ·

**No permit records on file.**

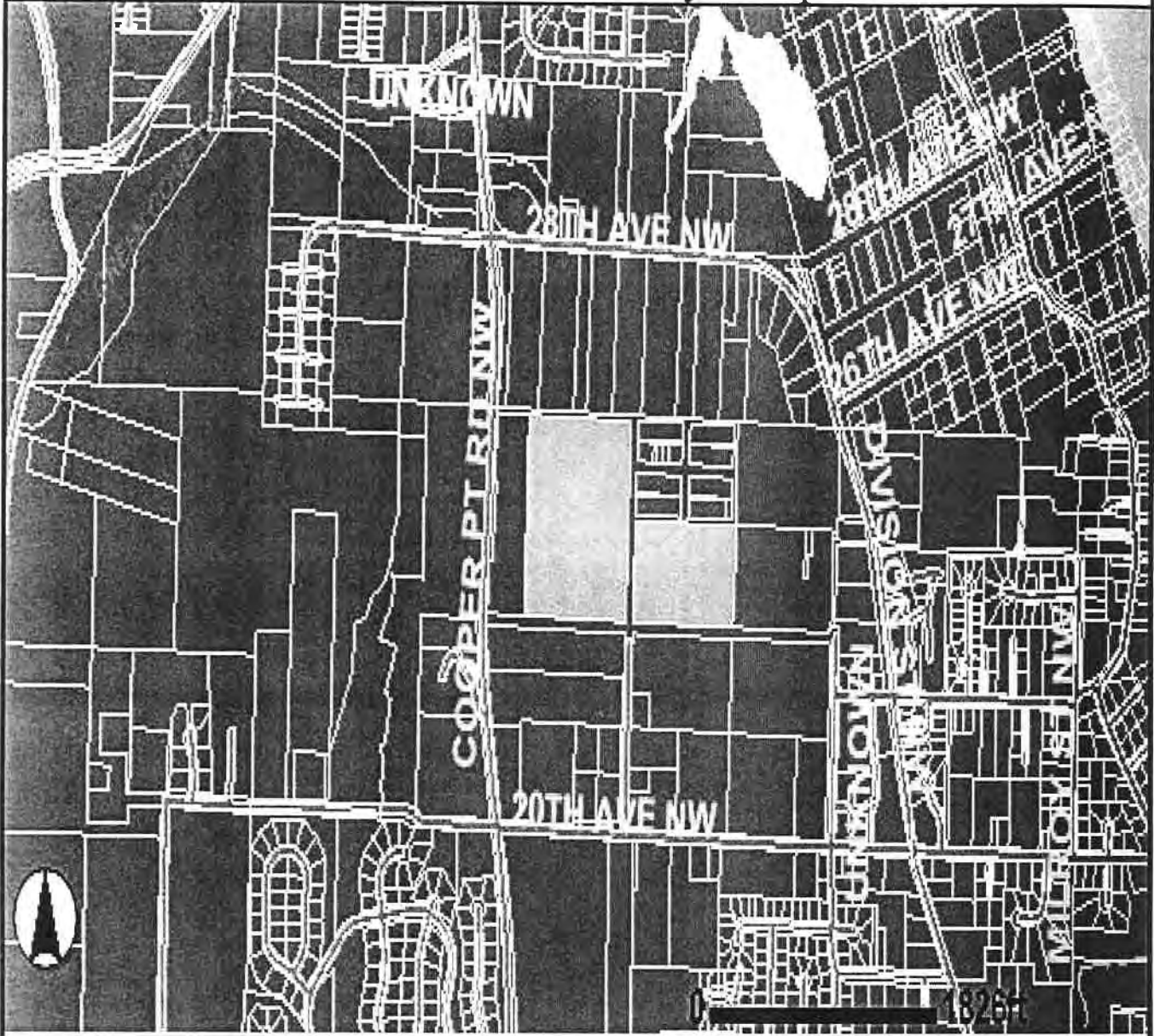
**Office of the Assessor**

**Patricia Costello, Assessor**

2000 Lakeridge Drive SW - Olympia, WA 98502

**Customer Service (360)786-5410 -- Fax (360)754-2958 -- TDD (360)754-2933**

# Thurston County Map



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Center  
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Bldg #4, Rm 205, 921 Lakeridge Dr SW  
Olympia, WA 98512-6052

**LEGEND**

	<b>Major Roads</b>		<b>Flood Zones</b>
	<b>Roads</b>		<b>Water Bodies</b>
	<b>Streams</b>		<b>Zoning</b>
	<b>Contours</b>		<b>Cities</b>
	<b>Wetlands</b>		<b>Parcels</b>
	<b>Wetland Buffers</b>		



# Thurston County Assessor

**Basic information**  
**Property: 50400100100**

Use these buttons to display different information for this property

- [New Search](#) · [Basic Info](#) · [Values](#) · [Structures](#) ·
- [Permits](#) · [Sales](#) · [Feedback](#) · [Map Info](#) ·

### Owner/Taxpayer Information

Role	Pct	Name Street	City	State Country	Zip
Owner	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA	98508
Taxpayer	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA	98508

### Parcel Information

Legal Description: GAY S-D L 1 TO 28 B 1  
 Sect/Town/Range: 09 18 2W  
 Size: 1.62 Acres  
 Use Code: 91 Undeveloped Land  
 TCA Number: 135  
 Neighborhood: 14U2  
 Property Type: LAND-ONLY  
 Taxable: YES  
 School District: OLYMPIA S.D. #111

**Office of the Assessor**  
**Patricia Costello, Assessor**  
 2000 Lakeridge Drive SW - Olympia, WA 98502  
**Customer Service (360)786-5410 -- Fax (360)754-2958 -- TDD (360)754-2933**

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 Olympia WA 98502-6072

## LEGEND

- |   |                        |   |                     |
|---|------------------------|---|---------------------|
|  | <b>Major Roads</b>     |  | <b>Flood Zones</b>  |
|  | <b>Roads</b>           |  | <b>Water Bodies</b> |
|  | <b>Streams</b>         |  | <b>Zoning</b>       |
|  | <b>Contours</b>        |  | <b>Cities</b>       |
|  | <b>Wetlands</b>        |  | <b>Parcels</b>      |
|  | <b>Wetland Buffers</b> |   |                     |





# Thurston County Assessor

Basic information  
Property: 50400200100

Use these buttons to display different information for this property

- [New Search](#) · [Basic Info](#) · [Values](#) · [Structures](#) ·
- [Permits](#) · [Sales](#) · [Feedback](#) · [Map Info](#) ·

### Owner/Taxpayer Information

Role	Pct	Name Street	City	State Country	Zip
Owner	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA	98508
Taxpayer	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA	98508

### Parcel Information

Legal Description: GAY S-D L 1 TO 26 B 2  
 Sect/Town/Range: 09 18 2W  
 Size: 1.50 Acres  
 Use Code: 91 Undeveloped Land  
 TCA Number: 135  
 Neighborhood: 14U2  
 Property Type: LAND-ONLY  
 Taxable: YES  
 School District: OLYMPIA S.D. #111

**Office of the Assessor**  
**Patricia Costello, Assessor**  
 2000 Lakeridge Drive SW - Olympia, WA 98502  
**Customer Service (360)786-5410 -- Fax (360)754-2958 -- TDD (360)754-2933**



# Thurston County Assessor

Basic information  
Property: 50400300100

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[New Search](#) · [Basic Info](#) · [Values](#) · [Structures](#)  
[Permits](#) · [Sales](#) · [Feedback](#) · [Map Info](#)

### Owner/Taxpayer Information

Role	Pct	Name Street	City	State Country	Zip
Owner	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA	98508
Taxpayer	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA	98508

### Parcel Information

Legal Description: GAY S-D L 1 TO 28 B 3  
 Sect/Town/Range: 09 18 2W  
 Size: 1.63 Acres  
 Use Code: 91 Undeveloped Land  
 TCA Number: 135  
 Neighborhood: 14U2  
 Property Type: LAND-ONLY  
 Taxable: YES  
 School District: OLYMPIA S.D. #111

**Office of the Assessor**  
**Patricia Costello, Assessor**  
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**Customer Service (360)786-5410 -- Fax (360)754-2958 -- TDD (360)754-2933**



# Thurston County Assessor

Basic information  
Property: 50400400100

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- [New Search](#) · [Basic Info](#) · [Values](#) · [Structures](#) ·
- [Permits](#) · [Sales](#) · [Feedback](#) · [Map Info](#) ·

### Owner/Taxpayer Information

Role	Pct	Name Street	City	State Country	Zip
Owner	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA	98508
Taxpayer	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA	98508

### Parcel Information

Legal Description: GAY S-D L 1 TO 19 B 4  
 Sect/Town/Range: 09 18 2W  
 Size: 1.10 Acres  
 Use Code: 91 Undeveloped Land  
 TCA Number: 135  
 Neighborhood: 14U2  
 Property Type: LAND-ONLY  
 Taxable: YES  
 School District: OLYMPIA S.D. #111

**Office of the Assessor**  
**Patricia Costello, Assessor**  
 2000 Lakeridge Drive SW - Olympia, WA 98502  
**Customer Service (360)786-5410 -- Fax (360)754-2958 -- TDD (360)754-2933**



# Thurston County Assessor

**Basic  
Property**

Use these buttons to display different information for this property

- [New Search](#) · [Basic Info](#) · [Values](#) · [Structures](#) ·
- [Permits](#) · [Sales](#) · [Feedback](#) · [Map Info](#) ·

### Owner/Taxpayer Information

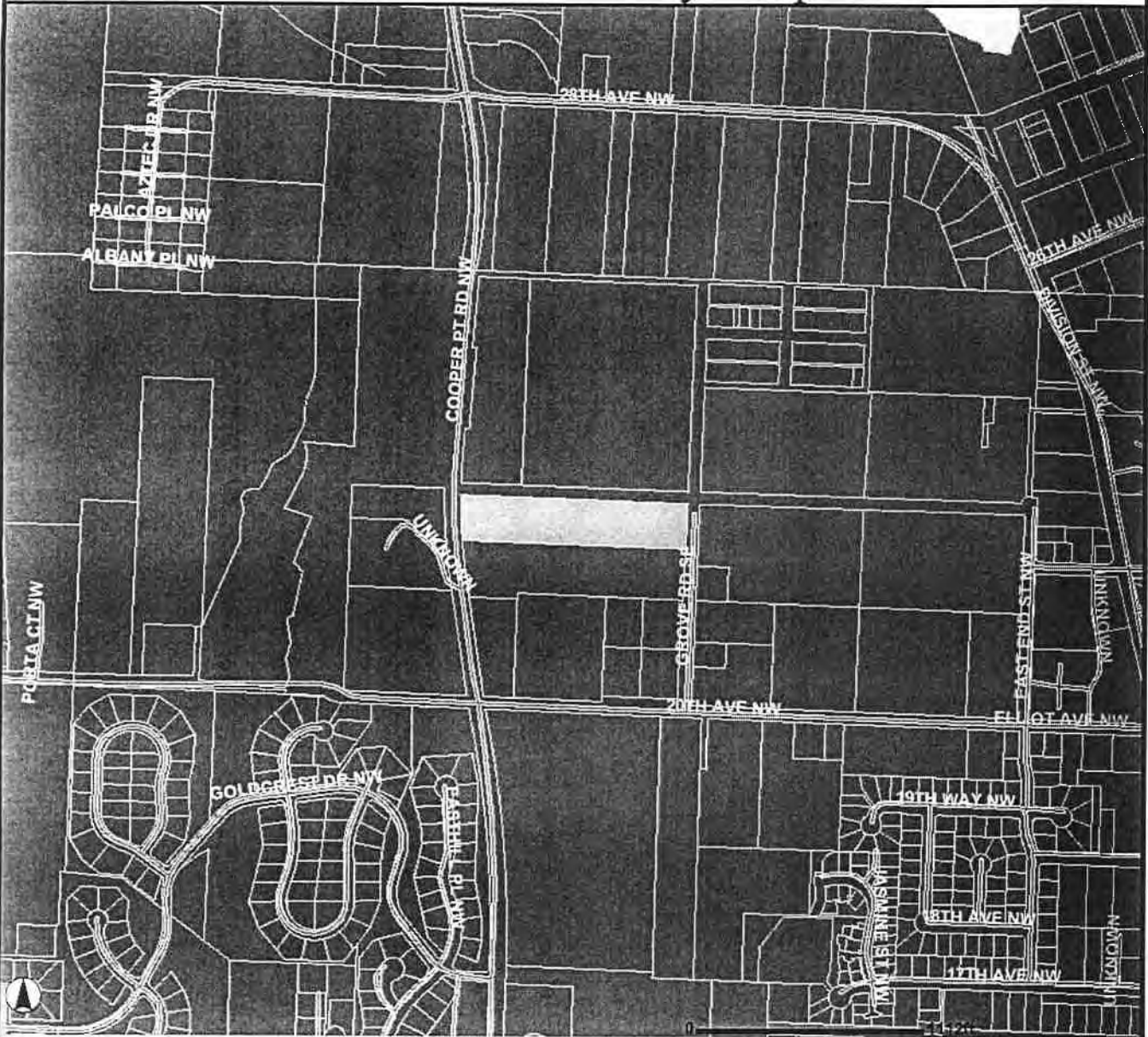
Role	Pct	Name Street	City	State	Country	Zip
Owner	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA		98508
Taxpayer	100%	SUNDBERG, THEODORE A PO BOX 11995	OLYMPIA	WA		98508

### Parcel Information

Situs Address: 2721 PARK ST NW  
 Legal Description: SILSBYS PACIFIC L25 26 & 27 BY E OF COOPER PT RD LESS S792. 7F  
 Sect/Town/Range: 09 18 2W  
 Size: 4.66 Acres  
 Use Code: 18 Other Residential  
 TCA Number: 135  
 Neighborhood: 14U2  
 Property Type: MOBILE-HOME  
 Taxable: YES  
 School District: OLYMPIA S.D. #111  
 Water Source: WELL  
 Sewer Type: SEPTIC

**Office of the Assessor**  
**Patricia Costello, Assessor**  
 2000 Lakeridge Drive SW - Olympia, WA 98502  
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 Olympia WA 98512-0152

### LEGEND

	<b>Major Roads</b>		<b>Flood Zones</b>
	<b>Roads</b>		<b>Water Bodies</b>
	<b>Streams</b>		<b>Zoning</b>
	<b>Contours</b>		<b>Cities</b>
	<b>Wetlands</b>		<b>Parcels</b>
	<b>Wetland Buffers</b>		



### Data for Parcel No. 74202500200

Zoom Map to Parcel

#### View Assessor's Data for Parcel

Owner: SUNDBERG, THEODORE A  
 Address: PO BOX 11995  
 City: OLYMPIA  
 State: WA, 98508

---

Parcel No.: 74202500200  
 Site Address: 2721 PARK ST NW  
 Site City: OLYMPIA  
 Site Zip: 98502

---

Section: s09182W  
 Legal Description: SILSBYS PACIFIC L25 26 & 27 BY E OF COOPER PT RD LESS S792. 7F  
 Usecode: 18 - OTHER-RESID  
 Tax Code Area: 135  
 Taxable: Yes  
 Property Type: MOB  
 Total Acres: 4.66  
 Land Value: \$86,200.00  
 Building Value: \$0.00  
 Total Value: \$86,200.00  
 Current Use: N  
 Exemptions: None

---

Wetlands: Unknown  
 Floodzone: NO  
 Flood of 1999: Unknown  
 Winter Flooding of 1996: Unknown  
 High Groundwater Flood Hazards: Unknown

---

Zoning: RLI, RLI 2-4,  
 Historic Site: No  
 Permitting Jurisdiction: COUNTY  
 Jurisdiction of Influence: OLYUGA  
 Stormwater Rate: Yes  
 No Shooting Zone: No  
 Animal Control: Ordinance No. 12989. Contact Animal Services (360-352-2510).

---

Weed Containment Zone:	No
Steep Slopes:	Unknown
Ground Water Sensitive Areas:	No
DNR Natural Heritage Data:	Unknown
Critical Buffers:	200' Wetland
Shoreline Management Areas:	No
Waterbody & Wetland Buffers:	Yes
FEMA Panel No.:	160,175

---

Wellhead Protection Area:	No
Area of Groundwater Concern:	No
Elevated Nitrates:	No
Soil Type:	Alderwood gravelly sandy loam, 0 to 3% slopes; Alderwood gravelly sandy loam, 3 to 15% slopes
Hydric Soil:	No
Watershed:	ELD INLET
Water Service Area:	OLYMPIA CITY OF
School District:	OLYMPIA
Elementary School:	LP BROWN
Middle School:	JEFFERSON
High School:	CAPITAL
Fire Response District:	OLYMPIA
Medic Response District:	Medic 10
Residential Outdoor Burning:	Residential Outdoor Burning is banned within the city limits and urban growth areas of Lacey, Olympia, and Tumwater.
Planning Region:	1
Census Tract:	011100
Radio or Cell Tower:	No

**APPENDIX D**

**SANBORN MAP "NO COVERAGE" LETTER**





EDR® Environmental  
Data Resources Inc

"Linking Technology with Tradition"

## Sanborn® Map Report

**Ship To:** Elizabeth Mctyre  
AMEC Earth &  
11335 NE 122nd Way  
Kirkland, WA 98034

**Order Date:** 3/19/2004 **Completion Date:** 3/22/2004

**Inquiry #:** 1154879.3s

**P.O. #:** NA

**Site Name:** Cooper Point

**Address:** 2200 Cooper Point Rd NW

**City/State:** Olympia, WA 98502

**Customer Project:** 491M148950  
1039010CMK 425-820-4669

**Cross Streets:**

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

**NO COVERAGE**

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**APPENDIX E**

**WASHINGTON STATE DEPARTMENT OF ECOLOGY RECORDS**





# Surface Mining and Associated Activities General Permit

## Site Specific Fact Sheet

### WAG 50-1431

**Facility:**

Sundberg Sand & Gravel  
2200 Cooper Point Rd NW  
Olympia, WA

**Mailing Address:**

Barbara Pettus  
5344 Yearley Drive NE  
Olympia WA 98516

**County:** Thurston**WRIA:** 13**Phone Number:** (360) 866 8791**Latitude:** 47° 03' 57"**Contact Person:** Barbara Pettus**Longitude:** 122° 56' 20"

### Status of Facility and Discharges

Process Water:  discharge points to ground water  
 discharge points to surface water

**BMPs:**

Storm Water: 3 discharge points to ground water  
 discharge points to surface water

**BMPs:** Detention; collection/ routing; containment**SIC Codes for this site:**

1442 - Construction Sand and Gravel

**Quantity produced:**

MA

**Coverage date:** June 7, 2000**Scott E. Morrison****Permit Manager****Sand and Gravel General Permit****Southwest Regional Office**





# STEMER ENVIRONMENTAL, INC.

1023 SOUTH ADAMS ST., SUITE 145 / OLYMPIA, WA 98501 / PH. 206-438-9521

U.S.T. Service Provider License #S000166  
Construction License #STEMEEI081J9

RECEIVED

March 18, 1993

'93 APR -5 10:05

DEPARTMENT OF ECOLOGY  
S.W. REGIONAL OFFICE

Mr. Ted Sundberg  
6826 Whitaker Road S.W.  
Olympia, Washington 98502

Dear Mr. Sundberg:

RE: UNDERGROUND STORAGE TANK REMOVAL LOCATED AT 2200  
COOPER POINT ROAD N.W. OLYMPIA, SITE #011500,  
COUNTY PLOT #8170000000

### SITE CHARACTERISTICS AND BACKGROUND

This property has been owned and operated as a gravel pit by Ted Sundberg for approximately 30 years. It was also used as a log loading yard for a period of time.

Approximately 25 years ago a 12,000 gallon Underground storage tank was installed on the premises to store Diesel Fuel. The dimensions of this tank are 95 inches in diameter by 33 foot long with a 43 inch fill pipe. This system served on site equipment and transfer trucks. The tank is owned and was operated by David Pearsoll. After 10 years of abandonment the property owner, Mr. Sundberg, contracted with our company for the proper removal of the tank.

All soils surrounding the tank consisted of sand mixed with pit run gravel. Soil located on the east end of the tank, directly around the fill pipe, was oil stained, most likely from delivery overfills and spills. As these noticeably contaminated soils were excavated they were placed in a separate stock pile.

A well is located near the on site residence, approximated 750 feet from the U.S.T.'s location. Quality of water from this well is good. Recent soil borings on site show the water table to be below the 50 foot level.



## TANK REMOVAL AND SITE ASSESSMENT

On February 8, 1993, I supervised the excavation and removal of one (1) 12,000 gallon steel underground storage tank which had been used for diesel storage. The tank was properly pumped dry of all liquids and properly inerted using approximately 180 lbs. of dry ice prior to removal. L.E.L. readings in the tank were continually monitored with an oxygen meter. All soils excavated during and after the tank removal were screened for contamination and placed on visqueen and properly covered for storage. A total of approximately 100 yards of soil was excavated from the tank pit. After the tank was removed and properly secured, I began taking undisturbed soil samples. One (1) sample was taken from each end of the tank pit floor as well as one (1) sample from the west sidewall of the tank pit.

## LABORATORY ANALYSIS RESULTS AND DETERMINATIONS

All samples were submitted for Total Petroleum Hydrocarbons analysis using method WTPH-D. This laboratory analysis meets all current ecology standards for diesel fuel sites.

Laboratory analysis results indicate that all samples taken from the tank excavation pit (samples 1-F, 2-S, 3-F) and samples from two (2) of the excavated soil stockpiles (samples 4-P & 6-P) were well under acceptable levels established by the Department of Ecology and require no further action.

Analysis results for soil stock pile sample 5-P, indicating a level of 390 PPM Total Petroleum Hydrocarbons (TPH), were well above the acceptable action level of 200 PPM set by Ecology. This soil sample was taken from the stockpile containing soils excavated from the area near and around the fill pipe of the tank. This soil stock pile contained approximately 25 cubic yards. The soils also smelled and were visually darker than other soils. The laboratory analysis results and the visual observations of these soils are evidence of a confirmed release. It is my belief that due to the location of these contaminated soils combined with the excellent condition of the tank, that the release was a result of poor fuel handling practices rather than a leaking underground storage tank.

After receiving these results I immediately informed Lynn Gooding of the Department of Ecology of a confirmed release and discussed all pertinent facts pertaining to this underground storage tank site. It was her determination that the tank pit could be backfilled using imported soils in combination with soils from the clean stock piles. I informed her that the contaminated soils on site would be properly stored until a treatment or disposal method was decided upon.





You may proceed with backfilling the tank pit using the method described above. I've also discussed contaminated soil treatment and disposal options with you. A decision should be made as soon as possible and the Department of Ecology should be notified.

It should be noted that the tank that you have retained possession of should be properly cleaned and handled and then only used in a manner that will not pose a threat to health or the environment. I would be glad to assist you in these matters if needed.

If you require any further information or have any questions please feel free to call me at the above number.

Sincerely,



Paul W. Stemen  
Ecology-Registered Site Assessor  
U.S.T. Supervisor License #WA00011

cc: Paul Meyer  
Lynn Gooding  
Department of Ecology





# UNDERGROUND STORAGE TANK Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section  
Department of Ecology  
Mail Stop PV-11  
Olympia, WA 98504-8711

## 1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: DAVID PEARSOLL/TED SUNDBERT

Owners Address: 6826 WHITTAKER RD.  
Street P.O. Box

OLYMPIA, WASHINGTON 98502  
City State ZIP-Code

Telephone: (206 ) 866-8791

Site ID Number (on invoice or available from Ecology if tank is registered): 011500

Site/Business Name: TED SUNDBERG

Site Address: 2200 COOPER POINT ROAD THURSTON  
Street County

OLYMPIA, WASHINGTON 98502  
City State ZIP-Code

## 2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: STEMEN ENVIRONMENTAL, INC. License Number: S000166

Address: 120 STATE AVE. NE STE 145  
Street P.O. Box

OLYMPIA, WASHINGTON 98501-8212  
City State ZIP-Code

Telephone: (206 ) 438-9521

Licensed Supervisor: PAUL W. STEMEN Decommissioning License Number: WA00011



### 3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): 011500      2. Year installed: APPROX. 1967
3. Tank capacity in gallons: 12,000      4. Date of last use: APPROX. 10 YEARS AGO
5. Last substance stored: DI ESEL FUEL      6. Date of closure/change-in-service: 2/8/93
7. Type of closure: Closure with Tank Removal       In-place Closure       Change-in-Service
8. If in-place closure is used, the tank has been filled with the following substance: N/A
9. If change-in-service, indicate new substance stored in tank: N/A
10. Local permit(s) (if any) obtained from: THURSTON COUNTY PUBLIC WORKS BUILDING DIV.

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes  No

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

### 4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	PS		
2. Has all product piping been capped or removed?	PS		
3. Have all non-product lines been capped or removed?	PS		
4. Have all liquid and accumulated sludges been removed from the tank?	PS		
5. Has the tank been properly purged or inerted?	PS		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	PS		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	PS		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)? <u>TANK TO BE CLEANED</u>			PS
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations? <u>OWNER RETAINS POSSESSION OF TANK ON-SITE</u>			PS

\*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

Date

2/8/93

Signature of Licensed Supervisor

[Signature]

### 5. ADDITIONAL REQUIRED SIGNATURES

Date

2/8/93

Signature of Licensed Service Provider (firm) Owner or Authorized Representative

[Signature]

Date

2/8/93

Signature of Tank Owner or Authorized Representative

[Signature]

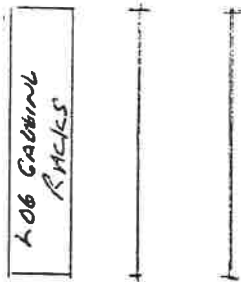


TED SUNDBERG GRAVEL PIT  
 2200 COOPER POINT ROAD  
 OLYMPIA, WASHINGTON 98502

ENTRANCE



HOBBS

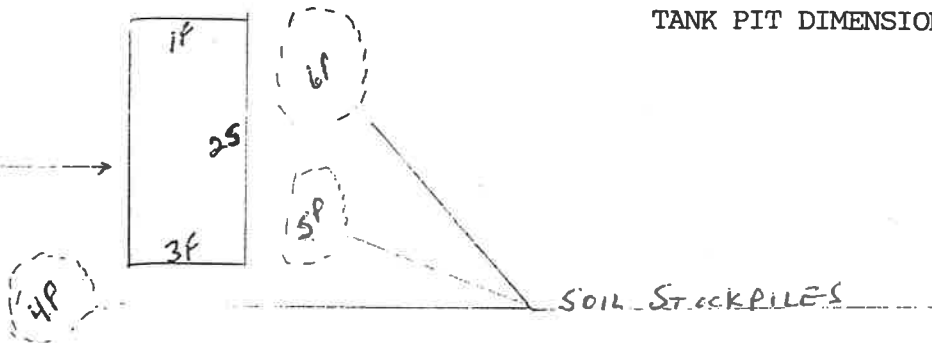


GRAVEL PIT  
 AREA

JUNK PILE

TANK PIT DIMENSIONS L-37' X W-13' X D-13'

TANK PIT



SHACK

SAMPLE DEPTH

1-F	13'
2-S	9'
3-F	13'
4-P	VARIOUS DEPTHS/LOCATIONS OF STOCKPILE
5-P	" " " " "
6-P	" " " " "

20TH STREET  
 ENTRANCE

RESIDENCE





**State of Washington  
Department of Ecology  
UST Site Inspection**

Inspection Date: 4-29-03 Time: \_\_\_\_\_ Inspector(s): Brett Manning  
 Inspection Type: (circle) UST Compl. Tech. Assist. Follow-up Other

Site Name: <u>Cooper Pt. Chevron</u>	UST #: <u>562233</u>
Address: <u>2205 Cooper Pt. Rd</u>	Site Contact:
City: <u>Olympia</u>	Phone: <u>253 381-4658 (c)</u>

Tank #	Gallons	Fuel Type	Tank Model (i.e. STI-P3, Xerxes)	Compartment/Manifold
<u>1</u>	<u>20 K</u>	<u>UNL</u>	<u>Steel/Glass</u>	
<u>2</u>	<u>20 K</u>	<u>UNL/DSL</u>	<u>Steel/Glass</u>	<u>15-UNL 5-DSL</u>

Fuel Distributor: \_\_\_\_\_ Distr. Phone: \_\_\_\_\_

Recordkeeping Requirements	Compliant?
TAG # <u>A5134</u> UBI# _____	
MBL tank(s) endorsement in compliance: (exp. date _____) WAC 173-360-130(2)(d)	Y N N/A
Fin. Resp. in compliance: (circle) <u>insur. co.</u> self-insur. state/fed. WAC 173-360 Part IV	Y N N/A
Tank Insurance Co. _____ Expiration Date _____	

Tank Material: (circle) Steel Clad w/ Corr Resist  
 Steel Coated Steel FRP  
 Single-Wall Double-Wall

Tank Corr. Prot.: (circle) Corr Resist  
 Galvanic Impr Curr Int. Lining

Piping Material: (circle) FRP  
 Steel Flex  
 Single-Wall Double-Wall

Piping Corr. Prot.: (circle) Corr. Resist.  
 Galvanic Imp. Curr.

Interior lining installed date _____ Int. Lining inspection date _____	
Interior lining meets 10 & 5 yr. inspection frequency: WAC 173-360-310(2)(a)(ii)	Y N N/A
Interior lining inspection has Passing or equivalent results: WAC 173-360-310(2)(a)(ii)	Y N N/A
Cath. Prot. Test date _____ for: (circle) <u>Steel Tank(s)</u> Steel Line(s)	
Cathodic Protection test frequency in compliance: WAC 173-360-320(2)(a)	Y N N/A
Records indicate tanks and piping are corrosion protected: WAC 173-360-305/310	Y N N/A

**Inventory Control is conducted (circle) Daily Weekly Monthly**

Inventory control is performed correctly: WAC 173-360-345(6)(a)/(b)/(c)	Y N N/A
Tanks do not exceed 10 yr. limit for tank sticking requirements: WAC 173-360-345(2)	Y N N/A
Tank(s) met corrosion protection requirements (date) _____	
Tank tight. test frequency compliant: (last date _____) WAC 173-360-345(5)/(6)(a)(b)(c)	Y N N/A

**Monthly monitoring: (circle) ATG Vapor GW Interstitial SIR Other \_\_\_\_\_**

Rel. Det. Method is checked or conducts test monthly: WAC 173-360-335(2)(a)	<u>Y</u> N N/A
Equip. service checks per mnfctr's instructions: (date _____) WAC 173-360-335(1)(b)	Y N N/A
SIR Vendor (_____) records and frequency compliant: WAC 173-345(6)(i)	Y N N/A

Comments: \_\_\_\_\_  
check auto shut-off on pump #8.

**Recordkeeping Requirements (cont.)**

Compliant?

**Piping Pumping System:** (circle) *Pressure Suction(Pump) Suction(Tank) Other*

Pressure Lines have annual ALLD test: (date _____) WAC 173-360-350(3)(a)	Y	N	N/A
ALLD Type: (circle) <i>Manual Electronic</i>			
Pressurized Lines use (circle) <i>Annual Line TT Elec. ALLD Line TT Vapor GW Interstitial. SIR Other</i>			
Pressure Lines annual line tight. test compliant: (date _____) WAC 173-360-350(3)(a)	Y	N	N/A
Pressure Lines Elec. ALLD tight. test compliant: (date _____) WAC 173-360-350(3)(a)	Y	N	N/A
Pressure Lines VM, GWM, Interstitial, or SIR compliant: WAC 173-360-350(3)(c)	Y	N	N/A
Interst Sump Sensor service check per mfr's instruct: (last date _____) WAC 173-360-335(1)(b)	Y	N	N/A
Suction Line (tank valve) 3 yr. Tight. Test: (date _____) WAC 173-360-350(2)(b)	Y	N	N/A
Suction Line (tank valve) VM, GW, Interst or SIR compliant: WAC 173-360-350(2)(b)	Y	N	N/A

CP **Equipment Checks**

CP system operated and maintained continuously: WAC 173-360-320(1)	Y	N	N/A
Impressed Current system inspected every 60 days: WAC 173-360-320(3)	Y	N	N/A
Imp. Curr. Amp/Volt readings within specified range: WAC 173-360-320(3)	Y	N	N/A
Readings: Amp _____ Volt _____ Meter/Clock _____ Rectifier Model _____ Install Date _____			

**Monthly monitoring:** (circle) *ATG Vapor GW Interstitial SIR Other*

Rel. Det. equipment test alarms are operational: WAC 173-360-335(1)(b)	Y	N	N/A
Rel. Det. equipment printer or modem operational: WAC 173-360-335(1)(b)	Y	N	N/A
Rel. Det. Equip. is <b>NOT</b> in alarm: WAC 173-360-335(1)(b)	Y	N	N/A
If no, why is it in alarm _____			
Release Detection Model _____			
Vapor or GW MWs placed around tanks and piping runs: WAC 173-360-335(1)(a)	Y	N	N/A

Pressurized Lines ALLD is present: WAC 173-360-350(3)(a)	Y	N	N/A
Corr. Resist. lines verified: (circle) <i>at sump</i> at dispenser records WAC 173-360-305(2)	Y	N	N/A
Interstitial Line sump sensors are placed correctly: WAC 173-360-335(1)(a)	Y	N	N/A
Turbine Sumps are free of liquid: WAC 173-360-335(1)(b)	Y	N	N/A

Spill Bucket does <b>NOT</b> have obvious cracks, holes. WAC 173-360-305(3)(a)(i)	Y	N	N/A
Overfill device used: (circle) <i>Auto-Shut. Alarm Ball-float</i> WAC 173-360-305(3)(a)(ii)	Y	N	N/A
Overfill automatic shut-off device is not tampered with: WAC 173-360-305(3)(a)(ii)(A)	Y	N	N/A
Overfill alarm is set at 90% and audible to delivery driver: WAC 173-360-305(3)(a)(ii)(B)	Y	N	N/A
Overfill ball-float valve is present: (circle) <i>visual records</i> WAC 173-360-305(3)(a)(ii)(B)	Y	N	N/A

Comments: \_\_\_\_\_

Significant Operational Compliance with Overspill/Overfill/Corr. Prot.: **Y** N N/A  
 Significant Operational Compliance with Release Detection: **Y** N N/A

\_\_\_\_ Photos Taken \_\_\_\_ Tech. Assist. Materials Provided (\_\_\_\_\_)

\_\_\_\_ Action Taken: (circle) *Notice of Noncompliance* Field Citation# \_\_\_\_\_

Inspector Signature/Date *Beth Manning* 4-29-03



SW Thurston

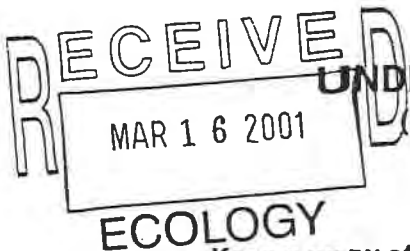
UBI NUMBER

MEELEE CHO

OWNER NAME (Please print clearly)

Cooper PT Chevron

FIRM NAME



**UNDERGROUND STORAGE TANK ADDENDUM**

(For new and retrofit tanks and change in ownership)

This form must accompany a Master Application.  
 Please type or print clearly in dark ink.

562233

done OR

Keep a copy of the completed form and the instruction sheet for future reference.

**TANK SITE INFORMATION** (See page 1 and 2 of the instructions for proper codes.)

1. Tank Site Location Address:

2205 Cooper PT Rd.  
 Location Address  
 Olympia City      wa State      98501 Zip Code      Thurston County

2. Contact person for the tank site:

Koong Cho Name      253-381-4658 Phone Number  
 2205 Cooper PT. Rd. Contact's Address  
 Olympia City      wa State      98501 Zip Code      Thurston County

3. Site Number (if known)..... [ ] [ ] [ ] [ ] [ ] [ ]

4. This application is for:

- A new facility with underground storage tanks
- A change of ownership of an existing site
- A retrofit
- A new tank installation at existing site

5. Tank Site Use Type (SIC Code)..... [5] [5] [4] [1]

6. Financial Responsibility Limits Category ..... [3]

7. Method of Compliance with Financial Responsibility Requirement ..... [A] applied

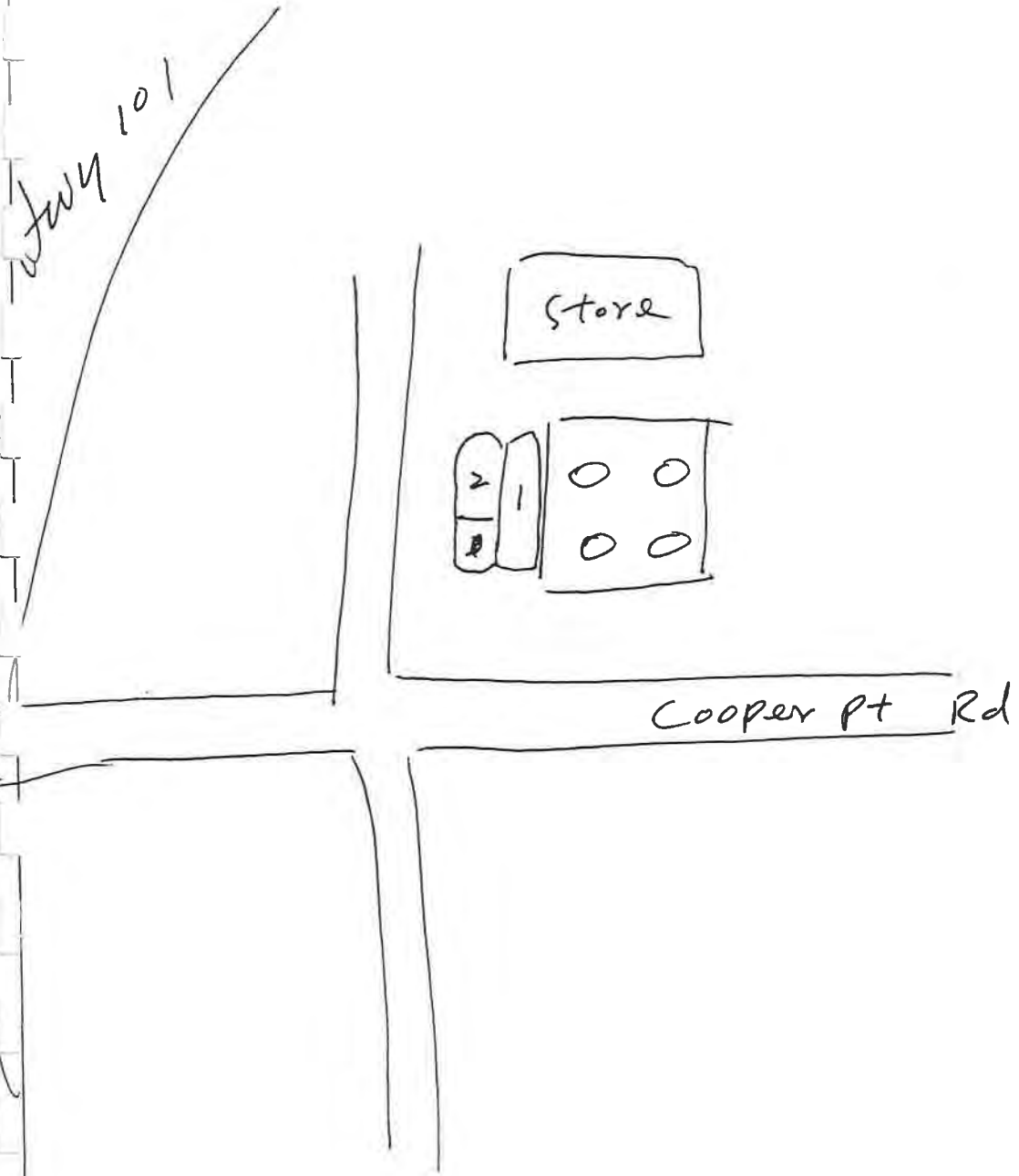
8. Attach the appropriate proof of Financial Responsibility as described in the instructions.

**II INDIVIDUAL TANK INFORMATION** (See pages 2 and 3 of the instructions for proper codes before completing this section.)

	First Tank			Second Tank			Third Tank			Fourth Tank			Fifth Tank		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
A Tank Name	1			2											
B Installation Date	02, 10/1			02, 10/1			1 1			1 1			1 1		
C Tank Status	A			A											
D Tank Material	D			D											
E Tank Construction	B			B											
F Tank Release Detection	C			C											
G Tank Tightness Testing	A			A											
H Tank Corrosion Protection	C			C											
I Spill Protection	A			A											
J Overfill Protection	A			A											
K Piping Material	C			C											
L Piping Construction	B			B											
M Piping Release Detection	A			A											
N Piping Tightness Testing	A			A											
O Piping Corrosion Protection	C			C											
P Pumping System	A			A											
Q Substance Stored	B			B	D										
R Substance Use	A			A	A										
S Compartment Capacity	20,000			15,000			5,000								

**SITE PLAN** (In the space below, provide an as built site plan of the tank and piping installation. Include all the information requested in the instructions.)

RECEIVED  
MAR 16 2001  
ECOLOGY



**Always contact local authorities regarding permit requirements.  
You must have the installation supervisor sign the back side of this page.**

**IV INSTALLERS CERTIFICATION**

I hereby certify that the installation of the new underground tank system or any upgrades or retrofits to the existing tank system listed on this form were completed according to all applicable regulations, codes and standards and that a certified supervisor was on site during all required installation activities.

  
 \_\_\_\_\_  
 Signature of Certified Supervisor

1/26/01  
 \_\_\_\_\_  
 Date Signed

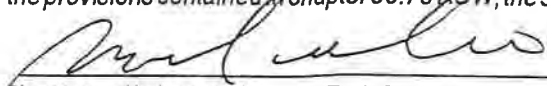
Robert L. Senatore  
 \_\_\_\_\_  
 PRINTED Name of Person Signing Above

**V OWNER/OPERATOR AGREEMENT TO TERMS AND CONDITIONS OF UST PERMIT**

Owners and operators of petroleum underground storage tanks (USTs) must:

- Maintain proof of financial responsibility for taking corrective action and compensating third parties for bodily injury and property damages caused by petroleum releases. [RCW 90.76.020(1)(g), WAC 173-360-400 through 499]
- Provide release detection for petroleum USTs that can detect a release from any part of the tank and piping; must be installed, calibrated, operated and maintained according to manufacturers' instructions; and must meet the appropriate performance requirements in WAC 173-360-345 or 355. [RCW 90.76.020(1)(d), WAC 173-360-330 through 355]
- Operate and maintain corrosion protection systems in accordance with WAC 173-360-320 for new or upgraded steel tanks and piping installed after December 22, 1988. [RCW 90.76.020(1)(a)(b), WAC 173-360-300 through 325]
- Provide for spill and overflow protection for new or ungraded tanks installed after December 22, 1988, that are filled with more than 25 gallons at a time. [RCW 90.76.020(1)(a)(b), WAC 173-360-300 through 315]
- Report, investigate and clean up any spills and overfills in accordance with WAC 173-360-375. [RCW 90.76.020(1)(e), WAC 173-360-360 through 375, WAC 173-360-399]
- Use a certified UST supervisor to perform all UST service activities: repairs, tank installation, retrofitting, tank decommissioning, tightness testing, corrosion protection installation and testing and site assessment. [RCW 90.76.020(5), WAC 173-360-600 through 630]
- Notify Ecology of intent to install a new UST system at least 30 days, but not more than 90 days, prior to installation. [RCW 90.76.020(1)(a), WAC 173-360-200(1)]
- Permanently close a tank after it has been temporarily closed or out of service for 12 months and does not meet the performance standards for new UST systems or the upgrading requirements in WAC 173-360-310(2)(3). [RCW 90.76.020(1)(f), WAC 173-360-380 through 385]
- Notify Ecology at least 30 days before beginning either a permanent closure or a change in service. [RCW 90.76.020(1)(c), WAC 173-360-385]
- Have a certified UST supervisor conduct a site assessment at permanent closure or a change-in-service as required under WAC 173-360-385 through 395. [RCW 90.76.020(1)(f), WAC 173-360-600 through 630]
- Do not operate an UST or accept delivery of regulated substances without a valid permit. [RCW 90.76.020(1)(c), WAC 173-360-130]
- Notify the Department of Ecology within 30 days after bringing any newly installed UST system into use. [RCW 90.76.020(1)(c), WAC 173-360-200(2)]
- Violations of these permit conditions may result in permit revocation and/or civil penalty up to \$5,000 for each tank involved, for each day of the violation. [RCW 90.76.080, WAC 173-360-670, WAC 173-360-130(8)]

As the owner and/or operator of the Underground Storage Tank (UST) system described on this application, I certify that I have read and agree to abide by the foregoing terms and conditions, and that I understand that having an UST permit requires that I comply with the provisions contained in chapter 90.76 RCW, the statute governing USTs, and its implementing regulations, chapter 173-360 WAC.

  
 \_\_\_\_\_  
 Signature of Underground Storage Tank Owner

1/25/01  
 \_\_\_\_\_  
 Date Signed

MEE LEE CHU  
 \_\_\_\_\_  
 PRINTED Name of Person Signing Above