Subsurface Release Investigation Report

Industrial Properties, Inc. 2450 Sixth Avenue South Seattle, Washington 98134 (Ecology TCP ID# NW1016)

> Clayton Project No. 75-03092.00 February 11, 2003

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EXECUTIVE SUMMARY

Industrial Properties, Inc. retained Clayton Group Services, Inc. (Clayton) to perform subsurface investigation activities in the vicinity of three heating fuel underground storage tanks (USTs) located at Industrial Properties, Inc., 2450 Sixth Avenue South, Seattle, Washington 98134.

Clayton performed a Phase I Environmental Site Assessment (ESA) at the subject property during August and September 2001 (report dated September 6, 2001) that identified at least three heating fuel underground storage tanks (USTs) located on the premises. The USTs were reportedly installed in the early- to mid-1950s and are most likely of single-walled steel construction. Clayton recommended that a subsurface investigation be conducted in the area of the USTs and product lines in order to determine if leakage to the subsurface had occurred.

The purpose of the subsurface investigation was to: 1) identify the location, orientation and size of the heating fuel USTs; 2) assess soil and groundwater conditions in the vicinity of the three USTs; 3) remove the remaining fuel from the three USTs; 4) enter the site into the State of Washington Department of Ecology (Ecology's) Voluntary Cleanup Program (VCP); 5) perform a release investigation to delineate soil and groundwater impacts around the three USTs; 6) prepare and submit this report summarizing the findings of the release investigation; and 7) negotiate with Ecology to determine appropriate actions at the site.

The subject property consists of two separate parcels. The first parcel, developed with the Industrial Properties, Inc. warehouse, is located at the northeast corner of Sixth Avenue South and South Lander Street. The three heating fuel USTs are located along the western portion of the warehouse. The second parcel is a parking lot located east of the railroad tracks (east of the warehouse) and north of South Lander Street.

Clayton supervised the subsurface and release investigation activities at the site in the vicinity of one 10,000-gallon (UST-1), and two 500-gallon heating fuel USTs (UST-2 and UST-3) to collect soil and groundwater samples for laboratory analysis to assess potential environmental impacts and delineate the extent of any impacts identified.

The soil sampling results in the vicinity of UST-1 (located inside the former Far West Taxi office) indicated the detection of total petroleum hydrocarbons (TPH) as diesel fuel ranging from <50 mg/kg to 20,000 mg/kg, which is above Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. Soil contamination in the vicinity of UST-1 above MTCA Method A Cleanup Levels has been delineated horizontally and is limited vertically to the zone just above the water table (approximately 11 to 12 feet below ground surface (bgs)). The soil contamination appeared to be present only in the upper-most zone of historical water table fluctuation at the site.

Groundwater sampling results in the vicinity of UST-1 indicated the detection of TPH as diesel fuel ranging from <250 ug/l to 170,000 ug/l, which is above Ecology's MTCA



Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. Free product was also observed in the groundwater sample collected from boring B5, drilled just north of UST-1. Groundwater contamination in the vicinity of UST-1 has been delineated to the south, north and west, but not to the east. However, TPH as diesel fuel concentrations in groundwater east of UST-1 decrease steadily with distance away from the tank. The origin of petroleum hydrocarbons detected in the vicinity of UST-1 may be associated with past overfills (when the site tube, located inside the former Far West Office, was apparently used as the fill port) or from product line leaks located near the northern end of the tank.

The soil sampling results in the vicinity of UST-2 (located approximately 30 feet east of UST-1) indicated the detection of TPH as diesel fuel ranging from <50 mg/kg to 2,700 mg/kg, which is above Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. Soil contamination in the vicinity of UST-2 above MTCA Method A Cleanup Levels has been delineated horizontally and is limited vertically to the zone just above the water table (approximately 11 to 12 feet bgs). The soil contamination appeared to be present only at the west end of UST-2 and in the upper-most zone of historical water table fluctuation at the site.

Groundwater sampling results in the vicinity of UST-2 indicated the detection of TPH as diesel fuel ranging from 2,500 ug/l to 220,000 ug/l, which is above Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. Groundwater contamination detected in the vicinity of UST-2 appears to be related (or possibly commingled) with the release detected in the vicinity of UST-1.

The soil sampling results in the vicinity of UST-3 (located near the northwest corner of the building) indicated the detection of TPH as diesel fuel ranging from <50 mg/kg to 21,000 mg/kg, which is above Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. Soil contamination in the vicinity of UST-3 above MTCA Method A Cleanup Levels has been delineated to the west, north and east and is limited vertically to the zone just above the water table (approximately 7 to 9 feet bgs). The soil contamination appeared to be present only in the upper-most zone of historical water table fluctuation at the site. Soil contamination to the south of UST-3 could not be fully delineated due to the presence of active offices, but likely does not extend more than 20 feet south of the tank.

Groundwater sampling results in the vicinity of UST-3 indicated the detection of TPH as diesel fuel ranging from <250 ug/l to 490,000 ug/l, which is above Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. Groundwater contamination in the vicinity of UST-3 has been delineated to the east and west, but not fully to the north (adjacent building) and south (active offices). However, TPH as diesel fuel concentrations in groundwater southwest of UST-3 decrease steadily with distance away from the tank. The origin of petroleum hydrocarbons detected in the vicinity of UST-3 may be associated with past overfills or from product line leaks.



TPH as gasoline, benzene, toluene, ethylbenzene and xylenes (BTEX), and polycyclic aromatic hydrocarbons (PAH) concentrations detected in soil and groundwater samples collected during the subsurface release investigation were relatively minor compared to the TPH as diesel fuel concentrations and will likely not impact any cleanup decisions or actions at the subject property to address the TPH as diesel fuel contamination detected in soil and groundwater.

Approximately 1,200 gallons of fuel was removed from the three USTs at the site between December 4 and 7, 2002, for recycling/reuse. Following discovery of the releases from the tanks the fuel was removed to mitigate any further releases at the site.

Based on the results of the subsurface release investigation activities and laboratory analytical results, it appears that petroleum releases in the vicinity of UST-1 and UST-3 have occurred. Soil contamination in the vicinity of the USTs has been adequately delineated horizontally and is limited to the upper-zone of water table fluctuation (11 to 12 feet bgs inside the building and 7 to 9 feet bgs outside the building). Groundwater contamination in the vicinity of the USTs has been fairly well defined (where access was not limited) and appears to be migrating to the southeast in the vicinity of UST-1 and to the southwest in the vicinity of UST-3. This discrepancy in the direction of groundwater contamination migration is likely caused by heterogeneous subsurface soil conditions, and likely reflects different directions of groundwater flow direction beneath the site.

Based on the results of the subsurface and release investigation activities, Clayton recommends the following activities at the site:

- Initiate free product removal from the north end of UST-1 to mitigate the ongoing source of soil and groundwater contamination.
- Evaluate soil and groundwater remediation alternatives to address the petroleum contamination documented at the site and negotiate with Ecology to determine appropriate actions to take.
- Decommission the three USTs in accordance with Ecology guidelines.



1.0 INTRODUCTION

Industrial Properties, Inc. retained Clayton Group Services, Inc. (Clayton) to perform subsurface release investigation activities in the vicinity of three heating fuel underground storage tanks (USTs) located at Industrial Properties, Inc., 2450 Sixth Avenue South, Seattle, Washington 98134. Figure 1 shows a partial topographic map of the area indicating the site location.

Clayton provided these services in accordance with the negotiated Terms and Conditions outlined in the Confidential Services Agreement between Clayton and Industrial Properties, Inc. (dated October 17, 2002).

1.1 BACKGROUND

Two 1,000-gallon gasoline, and one 10,000-gallon diesel fuel underground storage tanks (USTs) were reportedly excavated, removed and decommissioned from the subject property during 1994 (O'Sullivan Omega report dated June 13, 1994). The three USTs were located in the lot east of the railroad tracks, east of the building at 2450 Sixth Avenue South. The UST assessment reported that a minor release occurred from the gasoline USTs; however, soil concentrations were reported below the State of Washington Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A Cleanup Levels. No further action was recommended with respect to the three USTs decommissioned during 1994.

Clayton performed a Phase I Environmental Site Assessment (ESA) at the subject property during August and September 2001 (Clayton report dated September 6, 2001) that identified at least three heating fuel underground storage tanks (USTs) located on the premises. The USTs were reportedly installed in the early- to mid-1950s and are most likely of single-walled steel construction. Clayton recommended that a subsurface investigation be conducted in the area of the USTs and product lines in order to determine if leakage to the subsurface had occurred.

1.2 PURPOSE

The purpose of the subsurface investigation was to: 1) identify the location, orientation and size of the three heating fuel USTs at the subject property; 2) assess soil and groundwater conditions in the vicinity of the three USTs; 3) remove the remaining fuel from the three USTs; 4) enter the site into Ecology's Voluntary Cleanup Program (VCP); 5) perform a release investigation to delineate soil and groundwater impacts around the three USTs; 6) prepare and submit this report summarizing the findings of the release investigation; and 7) negotiate with Ecology to determine appropriate actions at the site.



1.3 SCOPE OF WORK

Clayton performed the following scope of work as part of the subsurface investigation:

- Located underground utilities at the subject property near the vicinity of the heating fuel USTs and proposed soil boring locations.
- Identified the location, orientation and size of the three heating fuel USTs using ground-penetrating radar (GPR).
- Drilled a total of 24 soil borings during two separate drilling events around the three USTs and collected continuous soil samples at three-foot intervals from each boring for logging purposes using a limited access direct-push Geoprobe drilling rig. Field screened the soil samples for volatile organic compounds (VOCs) using a photoionization detector (PID).
- The soil sample from each boring exhibiting the highest PID reading was submitted to a lab for analysis of total petroleum hydrocarbons (TPH) as diesel fuel and oil using Northwest Method NWTPH-Dx. The soil sample collected from around each UST that exhibited the highest PID reading was also analyzed for TPH as gasoline using Northwest Method NWTPH-G, benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8015, and polycyclic aromatic hydrocarbons (PAHs) using EPA Method 8270C.
- One groundwater sample was collected from around each UST during the first drilling event (November 26, 2002), and a groundwater sample was collected from each of the 12 borings drilled during the second event (January 6&7, 2003), and analyzed for TPH as diesel fuel and oil. One groundwater sample from each of the three UST areas was also analyzed for TPH-G, BTEX and PAHs.
- Backfilled each boring and finished to match existing grade.
- Prepared this written report documenting the work performed, laboratory analytical results, conclusions and recommendations.

2.0 PROPERTY DESCRIPTION

The subject property is located at 2450 Sixth Avenue South, Seattle, Washington, approximately: 0.25-mile west of Interstate 5 (I-5), 0.6-mile north of Spokane Street, 1.0-mile east of the East Waterway of the Duwamish River, 1.3-miles southeast of Elliott Bay, and 1.5-miles south of downtown Seattle.

The subject property is bordered on the south by South Lander Street, on the west by Sixth Avenue South, on the north by a warehouse and truck maintenance facility, and on the east by railroad tracks (further east is a warehouse).



The site is located in the SW ¼ of Section 8, Township 24 North, Range 4 East, of the Seattle South Topographic Quadrangle, at an elevation approximately 15 feet above mean sea level. The subject property is located in a relatively flat area, with elevations gradually descending to the west-northwest toward Elliott Bay. Figure 1 shows a partial topographic map of the area indicating the site location.

2.1 PRESENT CONDITIONS

The subject property consists of two separate parcels. The first parcel, developed with the Industrial Properties, Inc. warehouse, is located at the northeast corner of Sixth Avenue South and South Lander Street. The three heating fuel USTs are located inside the western portion of the warehouse. Figure 2 shows a map indicating the layout of the warehouse and the location of the three USTs and Appendix A contains photographs of the subject property and UST areas.

The second parcel is a parking lot located east of the railroad tracks (east of the warehouse) and north of South Lander Street. The property has a small storage shed located just north of South Lander Street, which is enclosed by a chain link fence.

2.2 REGIONAL GEOLOGY, GROUNDWATER, AND SOIL CONDITIONS

The subject property is located in the Puget Sound Lowland Physiographic Region of Washington. Upland terraces, rolling hills and troughs create north-south ridges that characterize the general area. Elliot Bay and Lake Union drain the downtown Seattle area into Puget Sound.

Prior to 1900, the subject property and adjacent areas were part of the Elliott Bay Tidelands, a shallow swampy area. The tidelands were filled in during the early 1900's. Soils beneath the subject property consist of loosely consolidated sandy silt to silty sand fill. The fill material is likely underlain by silty to clayey lacustrine deposits associated with the former tidal flat.

The geologic unit underlying the site and vicinity is the Vashon Till, an extremely compacted glacial till of poorly sorted gravels, sands, silts and clays. The compacted nature of the Vashon Till (often called 'hard-pan') resulted from glacial out-wash sediments being over-ridden and subsequently compacted by a transgressing thick sheet of ice. Locally, the Vashon Till may be overlain by a thin veneer of loosely consolidated ablation till and/or thin out-wash, deposited as glaciers in the Puget Sound area regressed. The thickness of the Vashon Till beneath the subject property is unknown. Poor drainage, low permeability and excellent foundation stability characterize Vashon Till.

The regional shallow groundwater flow direction is inferred to be west-northwest towards Elliott Bay, based on surface topography. However, topography is not always a reliable basis for predicting groundwater flow direction. The local gradient under the subject



property may be influenced naturally by zones of higher or lower permeability, or artificially by nearby pumping or recharge, and may deviate from the regional trend.

2.3 SITE GEOLOGY

The geology encountered during the subsurface investigation activities revealed that the subject property is generally underlain by intermixed sandy silts and silty sands to approximately 8 feet bgs. A silty clay was encountered from approximately 8 to 10 feet bgs. Below the silty clay, a coarse sand with gravel was encountered from approximately 10 to 12 feet bgs. Groundwater was encountered in the subsurface during the drilling of the soil borings at approximately 7 to 9 feet bgs. The soil boring logs are included in Appendix B.

3.0 SUBSURFACE INVESTIGATION

Clayton conducted subsurface investigation activities between November 19, 2002 and January 7, 2003 around the three heating fuel USTs at the subject property. The activities consisted of locating subsurface utilities, locating and determining the orientation and size of the USTs, and drilling soil borings to collect samples to assess subsurface environmental conditions in the vicinity of the USTs and delineate any impacts to soil and groundwater.

3.1 UST AND UTILITY LOCATING

Apollo Geophysics (Apollo) determined the orientation and size of the three USTs using ground-penetrating radar (GPR) on November 19, 2002. The GPR results indicated that UST-1, located inside the former Far West Taxi office, was approximately 8 feet in diameter and 28 feet long, which corresponds to a tank volume of approximately 10,000-gallons. The top of UST-1 was approximately 5 feet bgs, the bottom approximately 13 feet bgs, and approximately 1.25 feet of heating fuel remained in the tank.

The size of UST-2, located in the hallway east of the former Far West Taxi office, was determined to be approximately 3.5 feet in diameter and 6 feet long, which corresponds to a tank volume of approximately 500-gallons. The top of UST-2 was approximately 2.5 feet bgs, the bottom approximately 6 feet bgs, and approximately 1.5 feet of heating fuel remained in the tank.

The size of UST-3, located inside the R.H. Smith garage, was determined to be approximately 3.5 feet in diameter and 6 feet long, which corresponds to a tank volume of approximately 500-gallons. The top of UST-3 was approximately 2.5 feet bgs, the bottom approximately 6 feet bgs, and approximately 2 feet of heating fuel remained in the tank.

Prior to drilling the soil borings around the USTs, Applied Professional Services (APS) located subsurface utilities in the vicinity of the USTs and proposed soil borings.



Figure 2 shows the location of the three heating fuel USTs, product lines, vent lines and other utilities identified in the vicinity of the USTs at the subject property.

3.2 INITIAL SOIL BORINGS – NOVEMBER 26, 2002

Mr. Greg Ferris, Licensed Geologist from Clayton's Seattle Regional Office, supervised the drilling of 12 soil borings (B1 through B12) in the vicinity of the three heating fuel fuel USTs by Environmental Services Network (ESN) Northwest on November 26, 2002 to assess subsurface soil and groundwater conditions. The borings were drilled using a limited-access direct-push GeoProbe drilling rig.

Soil borings B1 through B4 were drilled around UST-3, located just inside of the R.H. Smith garage, near the northwest corner of the site. The boring B1 was drilled to 12 feet bgs to collect soil samples and a groundwater sample. The borings B2 through B4 were drilled to 9 feet bgs to collect soil samples only. The soil sample from each boring exhibiting the highest PID reading was collected for laboratory analysis. Petroleum odors were observed in soil samples collected from borings drilled around UST-3 approximately 7 to 9 feet bgs. Groundwater was encountered during the drilling of soil borings B1 through B4 approximately 9 feet bgs. The groundwater sample collected from boring B1 indicated a distinct petroleum odor.

Soil borings B5 through B8 were drilled around UST-1, located inside the former Far West Taxi office, near the western property boundary. The boring B5 was drilled to 15 feet bgs to collect soil samples and a groundwater sample. The borings B6 through B8 were drilled to 12 feet bgs to collect soil samples only. The soil sample from each boring exhibiting the highest PID reading was collected for laboratory analysis. Petroleum odors were observed in soil samples collected from borings B5 and B7, drilled just north and east of UST-1, approximately 11 to 12 feet bgs. Groundwater was encountered during the drilling of soil borings B5 through B8 approximately 12 feet bgs. The groundwater sample collected from boring B5 indicated the presence of free product (heating fuel) floating on the water table.

Soil borings B9 through B12 were drilled around UST-2, located in the hallway east of UST-1 and the former Far West Taxi office. The boring B9 was drilled to 16 feet bgs to collect soil samples and a groundwater sample. The borings B10 through B12 were drilled to 10 feet bgs to collect soil samples only. The soil sample from each boring exhibiting the highest PID reading was collected for laboratory analysis. Petroleum odors were observed in the soil sample collected from boring B9, drilled just west of UST-2, approximately 11 to 12 feet bgs. Groundwater was encountered during the drilling of soil boring B9 approximately 12 feet bgs. The groundwater sample collected from boring B9 indicated a distinct petroleum odor.

Figure 2 shows the location of the soil borings drilled around the USTs and Appendix B includes the soil boring logs.



Clayton verbally reported the preliminary findings to Ms. Nida Rodriguez at Ecology's Northwest Regional Office on November 27, 2002 as required in WAC 173-340-300(2)(a), following the November 26, 2002 site assessment activities. Ms. Rodriguez was informed that petroleum releases to soil and groundwater were detected in the vicinity of the three USTs and that free product was detected in the boring (B5) drilled just north of UST-1. A memo documenting the conversation with Ms. Rodriguez is included in Appendix C.

3.3 FUEL REMOVAL

Clayton supervised the removal of approximately 1,200 gallons of heating fuel remaining in the USTs by the Pickering Brothers Company between December 4-7, 2002. Approximately 750 gallons of fuel was removed from UST-1, 200 gallons removed from UST-2, and 250 gallons removed from UST-3 for recycling/reuse. Approximately one to two inches of sludge/fuel that could not be successfully removed remains in the bottom of each UST. Documentation summarizing the removal of fuel from the USTs is included in Appendix C.

Clayton reported the site activities to Mr. John Bails at Ecology's Northwest Regional Office on December 17, 2002. Mr. Bails was informed of the actions being taken to mitigate the petroleum releases at the site, including removal of the heating fuel from the USTs, and the plan to perform release investigation activities at the site during January 2003 to delineate impacts to soil and groundwater. The verbal report to Mr. Bails served as the Ecology 20 Day Report as required in WAC 173-340-450. A memo documenting the conversation with Mr. Bails is included in Appendix C.

3.4 RELEASE INVESTIGATION SOIL BORINGS – JANUARY 6&7, 2003

Mr. Ferris supervised the drilling of 12 additional soil borings (B13 through B24) in the vicinity of the three heating fuel fuel USTs by ESN Northwest during January 6&7, 2003 to delineate soil and groundwater impacts detected during the initial drilling event (November 26, 2002). The borings were drilled using a limited-access direct-push GeoProbe drilling rig.

Soil borings B13 through B15 were drilled in the vicinity of UST-2, located in the hallway just east of the former Far West Taxi office. The borings (B13 through B15) were drilled to 16 feet bgs to collect soil and groundwater samples. The soil sample from each boring exhibiting the highest PID reading was collected for laboratory analysis. Petroleum odors were not observed in the soil samples collected from above the water table in the borings (B13 through B15) drilled around UST-2. Groundwater was encountered approximately 10 to 11 feet bgs during the drilling of soil borings B13 through B15. The groundwater sample collected from boring B14 indicated a distinct petroleum odor.

Soil borings B16 through B20 were drilled in the vicinity of UST-1, located inside the former Far West Taxi office, near the western property boundary. The borings (B16



through B18) were drilled inside the building, ranging from 13 to 16 feet bgs, to collect soil and groundwater samples. The borings (B19 and B20) were drilled to 12 feet bgs, just west and north of the building, to collect soil and groundwater samples. The soil sample from each boring exhibiting the highest PID reading was collected for laboratory analysis. Petroleum odors were not observed in the soil samples collected from above the water table in the borings (B16 through B20) drilled around UST-1. Groundwater was encountered approximately 12 feet bgs during the drilling of soil borings B16 through B18 (inside the building), and approximately 8 to 9 feet bgs in borings B19 and B20 (outside the building). The groundwater samples collected from borings B17 and B18 indicated a distinct petroleum odor.

Soil borings B21 through B24 were drilled in the vicinity of UST-3, located just inside of the R.H. Smith garage, near the northwest corner of the site. The borings (B21 through B24) were drilled to 12 feet bgs, to collect soil and groundwater samples. The soil sample from each boring exhibiting the highest PID reading was collected for laboratory analysis. Petroleum odors were not observed in the soil samples collected from above the water table in the borings (B21 through B24) drilled around UST-3. Groundwater was encountered approximately 7 to 8 feet bgs during the drilling of soil borings B21 through B24. The groundwater sample collected from boring B22 indicated a distinct petroleum odor.

Figure 2 shows the location of the soil borings drilled around the USTs and Appendix B includes the soil boring logs.

3.5 SOIL SAMPLING

Soil samples were collected continuously at three-foot intervals using pre-cleaned split-spoon samplers. Soil samples collected from each boring were analyzed in the field for VOCs using a PID. The soil samples for field analysis were placed in Zip-Loc plastic bags, sealed, allowed to volatilize for at least 20 minutes, and subjected to headspace analysis using the PID. Table 1 provides a summary of the PID field screening results. Clean latex gloves were worn as the soil samples for laboratory analysis were placed into four-ounce glass jars with Teflon-lined lids.

The soil samples collected for laboratory analysis were placed in a cooler on ice and submitted to Friedman & Bruya – Environmental Chemists (F&B) for analyses following standard chain of custody procedures.

3.6 GROUNDWATER SAMPLING

Groundwater samples were collected from the borings using a peristaltic pump and clean plastic tubing. Clean latex gloves were worn as the groundwater samples were collected into the appropriate lab containers for the analyses to be performed. Groundwater samples collected for TPH-Dx and PAH analyses were placed into unpreserved 1.0-liter amber glass bottles with Teflon-lined lids. Groundwater samples collected for TPH-G



and BTEX analyses were containerized in two 40-ml vials with Teflon-lined lids, containing hydrochloric acid as a preservative.

The groundwater samples collected for laboratory analysis were placed in a cooler on ice and submitted to F&B for analyses following standard chain of custody procedures.

4.0 <u>LABORATORY ANALYTICAL RESULTS</u>

The soil samples collected for laboratory analysis (112602-S1 through S12; 010603-S1 through S6; and 010703-S1 through S6) were analyzed for TPH as diesel fuel and oil. The soil samples (112602-S2, S5 and S9) were also analyzed for TPH as gasoline, BTEX, and PAHs.

The groundwater samples collected for laboratory analysis (112602-GW1 through GW3; 010603-GW1 through GW6; and 010703-GW1 through GW6) were analyzed for TPH as diesel fuel and oil. The groundwater samples (010602-GW2; 010703-GW1 and GW4) were also analyzed for TPH as gasoline, BTEX, and PAHs.

4.1 SOIL SAMPLING RESULTS

The soil sampling laboratory analytical results from the vicinity of UST-1 indicated the detection of TPH as diesel fuel at 4,200 mg/kg in the soil sample 112602-S5 collected from the 9- to12-foot interval of boring B5; 20,000 mg/kg in the soil sample 010603-S5 collected from the 9- to12-foot interval of boring B17; and 3,800 mg/kg in the soil sample 010603-S6 collected from the 9- to12-foot interval of boring B18, which are above Ecology's Model Toxics Control Act (MTCA) Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. The soil sample 112602-S7, collected from the 9- to 12-foot interval of boring B7, indicated the detection of 990 mg/kg TPH as diesel fuel, which is below Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. The remaining soil samples collected from the vicinity of UST-1 (112602-S6 (B6), 112602-S8 (B8), 010603-S4 (B16), 010703-S1 (B19) and 010703-S2 (B20)) indicated TPH as diesel fuel concentrations below laboratory reporting limits (<50 mg/kg), which is below Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. The soil sample collected from boring B5 (112602-S5) indicated TPH as gasoline, BTEX and PAH concentrations below Ecology's MTCA Method A Cleanup Levels.

The soil sampling laboratory analytical results from the vicinity of UST-2 indicated the detection of TPH as diesel fuel at 2,700 mg/kg in the soil sample 010603-S2 collected from the 9- to12-foot interval of boring B14, which is above Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. TPH as diesel fuel was also detected at 1,200 mg/kg in soil sample 112602-S9, collected from the 9- to 12-foot interval of boring B9; and 110 mg/kg in soil sample 112602-S11, collected from the 6- to 9-foot interval of boring B11, which are below Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. The remaining soil samples collected from the vicinity of UST-2 (112602-S10 (B10), 112602-S12 (B12), 010603-S1 (B13) and



010603-S3 (B15)) indicated TPH as diesel fuel concentrations below laboratory reporting limits (<50 mg/kg), which is below Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. The soil sample collected from boring B9 (112602-S9) indicated TPH as gasoline, BTEX and PAH concentrations below Ecology's MTCA Method A Cleanup Levels.

The soil sampling laboratory analytical results from the vicinity of UST-3 indicated the detection of TPH as diesel fuel at 21,000 mg/kg in the soil sample 112602-S1 collected from the 6- to 9-foot interval of boring B1; 18,000 mg/kg in the soil sample 112602-S2, collected from the 6- to 9-foot interval of boring B2; 12,000 mg/kg in the soil sample 112602-S4 collected from the 6- to 9-foot interval of boring B4; and 2,000 mg/kg in the soil sample 010703-S4, collected from the 6- to 9-foot interval of boring B22, which are above Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. TPH as diesel fuel was also detected at 1,600 mg/kg in soil sample 112602-S3, collected from the 6- to 9-foot interval of boring B3, and 710 mg/kg in soil sample 010703-S5, collected from the 6- to 9-foot interval of boring B23, which are below Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. The remaining soil samples collected from the vicinity of UST-3 (010703-S3 (B21) and 010703-S6 (B24)) indicated TPH as diesel fuel concentrations below laboratory reporting limits (<50 mg/kg), which is below Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. The soil sample collected from boring B2 (112602-S2) indicated the detection of TPH as gasoline (260 mg/kg) above Ecology's MTCA Method A Cleanup Level of 100 mg/kg for TPH as gasoline in soil; benzene (0.04 mg/kg) above Ecology's MTCA Method A Cleanup Level of 0.03 mg/kg for benzene in soil; and naphthalene (12 mg/kg) above Ecology's MTCA Method A Cleanup Level of 5 mg/kg for naphthalene in soil. The remainder of BTEX and PAH parameters for soil sample 112602-S2 were reported below Ecology's MTCA Method A Cleanup Levels.

The laboratory analytical results for the soil samples are summarized in Tables 2 and 3, and copies of the laboratory analytical reports are included in Appendix D. Figure 3 shows a map of the UST areas indicating the horizontal extent of TPH as diesel fuel in soil above Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg.

4.2 GROUNDWATER SAMPLING RESULTS

The groundwater sampling laboratory analytical results from the vicinity of UST-1 indicated the detection of free product (diesel fuel) in the groundwater sample 112602-GW2, collected from boring B5; TPH as diesel fuel at 3,100 ug/l in the groundwater sample 010603-GW4 collected from boring B16; 65,000 ug/l in the groundwater sample 010603-GW5 collected from boring B17; and 170,000 ug/l in the groundwater sample 010603-GW6 collected from boring B18, which are above Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. The groundwater samples 010703-GW1 and 010703-GW2, collected from borings B19 and B20, respectively, indicated TPH as diesel fuel concentrations below laboratory reporting limits (<250 ug/l), which is below Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. The groundwater sample collected from boring B19 (010703-GW1)



indicated TPH as gasoline, BTEX, and PAH concentrations below Ecology's MTCA Method A Cleanup Levels.

The groundwater sampling laboratory analytical results from the vicinity of UST-2 indicated the detection of TPH as diesel fuel at 4,500 ug/l in the groundwater sample 010603-GW3 collected from boring B9; 22,000 ug/l in the groundwater sample 010603-GW1 collected from boring B13; 220,000 ug/l in the groundwater sample 010603-GW2 collected from boring B14; and 2,500 ug/l in the groundwater sample 010603-GW3 collected from boring B15, which are above Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. The groundwater sample collected from boring B14 (010603-GW2) also indicated the detection of TPH as gasoline (1,800 mg/kg) above Ecology's MTCA Method A Cleanup Level of 1,000 ug/l for TPH as gasoline in groundwater; benzene (6 ug/l) above Ecology's MTCA Method A Cleanup Level of 5 ug/l and chrysene (5 ug/l) above Ecology's MTCA Method A Cleanup Level of 0.1 ug/l for carcinogenic PAHs in groundwater. The remainder of BTEX and PAH parameters for groundwater sample 010603-GW2 were reported below Ecology's MTCA Method A Cleanup Levels.

The groundwater sampling laboratory analytical results from the vicinity of UST-3 indicated the detection of TPH as diesel fuel at 490,000 ug/l in the groundwater sample 112602-GW1 collected from boring B1; 170,000 ug/l in the groundwater sample 010703-GW4 collected from boring B22; and 1,800 ug/l in the groundwater sample 010703-GW6 collected from boring B24, which are above Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. The groundwater samples 010703-GW3 and 010703-GW5, collected from borings B21 and B23, respectively, indicated TPH as diesel fuel concentrations below Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. The groundwater sample collected from boring B22 (010703-GW4) indicated TPH as gasoline and BTEX concentrations below Ecology's MTCA Method A Cleanup Levels. The groundwater sample collected from boring B22 (010703-GW4) also indicated the detection of benz(a)anthracene (1 ug/l) and chrysene (2 ug/l) above Ecology's MTCA Method A Cleanup Level of 0.1 ug/l for carcinogenic PAHs in groundwater. The remainder of PAH parameters for groundwater sample 010703-GW4 were reported below Ecology's MTCA Method A Cleanup Levels.

The laboratory analytical results for the groundwater samples are summarized in Tables 2 and 4, and copies of the laboratory analytical reports are included in Appendix D. Figure 4 shows a map of the UST areas indicating the horizontal extent of TPH as diesel fuel in groundwater above Ecology's MTCA Method A Cleanup Level of 500 ug/l.

5.0 <u>CONCLUSIONS AND RECOMMENDATIONS</u>

Mr. Greg Ferris, Licensed Geologist from Clayton's Seattle Regional Office, supervised the subsurface and release investigation activities at the site in the vicinity of one 10,000-gallon, and two 500-gallon heating fuel USTs to collect soil and groundwater samples for



laboratory analysis to assess potential environmental impacts and delineate the extent of any impacts identified.

The soil sampling results in the vicinity of UST-1 indicated the detection of TPH as diesel fuel ranging from <50 mg/kg to 20,000 mg/kg, which is above Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. Soil contamination in the vicinity of UST-1 above MTCA Method A Cleanup Levels has been delineated horizontally and is limited vertically to the zone just above the water table (approximately 11 to 12 feet bgs). The soil contamination appeared to be present only in the upper-most zone of historical water table fluctuation at the site.

Groundwater sampling results in the vicinity of UST-1 indicated the detection of TPH as diesel fuel ranging from <250 ug/l to 170,000 ug/l, which is above Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. Free product was also observed in the groundwater sample collected from boring B5, drilled just north of UST-1. Groundwater contamination in the vicinity of UST-1 has been delineated to the south, north and west, but not to the east. However, TPH as diesel fuel concentrations in groundwater east of UST-1 decrease steadily with distance away from the tank. The origin of petroleum hydrocarbons detected in the vicinity of UST-1 may be associated with past overfills (when the site tube, located inside the former Far West Office, was apparently used as the fill port) or from product line leaks located near the northern end of the tank.

The soil sampling results in the vicinity of UST-2 indicated the detection of TPH as diesel fuel ranging from <50 mg/kg to 2,700 mg/kg, which is above Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. Soil contamination in the vicinity of UST-2 above MTCA Method A Cleanup Levels has been delineated horizontally and is limited vertically to the zone just above the water table (approximately 11 to 12 feet bgs). The soil contamination appeared to be present only at the west end of UST-2 and in the upper-most zone of historical water table fluctuation at the site.

Groundwater sampling results in the vicinity of UST-2 indicated the detection of TPH as diesel fuel ranging from 2,500 ug/l to 220,000 ug/l, which is above Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. Groundwater contamination detected in the vicinity of UST-2 appears to be related (or possibly commingled) with the release detected in the vicinity of UST-1.

The soil sampling results in the vicinity of UST-3 indicated the detection of TPH as diesel fuel ranging from <50 mg/kg to 21,000 mg/kg, which is above Ecology's MTCA Method A Cleanup Level of 2,000 mg/kg for diesel fuel in soil. Soil contamination in the vicinity of UST-3 above MTCA Method A Cleanup Levels has been delineated to the west, north and east and is limited vertically to the zone just above the water table (approximately 7 to 9 feet bgs). The soil contamination appeared to be present only in the upper-most zone of historical water table fluctuation at the site. Soil contamination to



the south of UST-3 could not be fully delineated due to the presence of active offices, but likely does not extend more than 20 feet south of the tank.

Groundwater sampling results in the vicinity of UST-3 indicated the detection of TPH as diesel fuel ranging from <250 ug/l to 490,000 ug/l, which is above Ecology's MTCA Method A Cleanup Level of 500 ug/l for diesel fuel in groundwater. Groundwater contamination in the vicinity of UST-3 has been delineated to the east and west, but not fully to the north (adjacent building) and south (active offices). However, TPH as diesel fuel concentrations in groundwater southwest of UST-3 decrease steadily with distance away from the tank. The origin of petroleum hydrocarbons detected in the vicinity of UST-3 may be associated with past overfills or from product line leaks.

TPH as gasoline, BTEX and PAH concentrations detected in soil and groundwater samples collected during the subsurface release investigation were relatively minor compared to the TPH as diesel fuel concentrations and will likely not impact any cleanup decisions or actions at the subject property to address the TPH as diesel fuel contamination detected in soil and groundwater.

Approximately 1,200 gallons of fuel was removed from the three USTs at the site between December 4 and 7, 2002, for recycling/reuse. Following discovery of the releases from the tanks the fuel was removed to mitigate any further releases at the site.

Based on the results of the subsurface release investigation activities and laboratory analytical results, it appears that petroleum releases in the vicinity of UST-1 and UST-3 have occurred. Soil contamination in the vicinity of the USTs has been adequately delineated horizontally and is limited to the upper-zone of water table fluctuation (11 to 12 feet bgs inside the building and 7 to 9 feet bgs outside the building). Groundwater contamination in the vicinity of the USTs has been fairly well defined (where access was not limited) and appears to be migrating to the southeast in the vicinity of UST-1 and to the southwest in the vicinity of UST-3. This discrepancy in the direction of groundwater contamination migration is likely caused by heterogeneous subsurface soil conditions, and likely reflects different directions of groundwater flow direction beneath the site.

Based on the results of the subsurface and release investigation activities, Clayton recommends the following activities at the site:

- Initiate free product removal from the north end of UST-1 to mitigate the ongoing source of soil and groundwater contamination.
- Evaluate soil and groundwater remediation alternatives to address the petroleum contamination documented at the site and negotiate with Ecology to determine appropriate actions to take.
- Decommission the three heating fuel USTs in accordance with Ecology guidelines.



6.0 LIMITATIONS

The information and opinions rendered in this report are exclusively for use by Industrial Properties, Inc. Clayton Group Services will not distribute this report without your consent, except as may be required by law or court order. The information and opinions expressed in this report are given in response to our limited assignment and should be evaluated and implemented only in light of that assignment. We accept responsibility for the competent performance of our duties in executing the assignment and preparing this report in accordance with the normal standards of our profession but disclaim any responsibility for consequential damages.

This report prepared by:

Greg Ferris, MS Licensed Geologist Environmental Services Seattle Regional Office

Carlo from

Gregory Allen Ferris

This report reviewed by:

Akos Fekete, RG

Manager

Environmental Services Seattle Regional Office



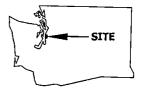
FIGURES



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Portion of 7.5—minute Series Topographic Map United States Department of the Interior Geological Survey

Seattle South, Washington Quadrangle 1983 Scale 1:25,000



QUADRANGLE LOCATION

Figure 1

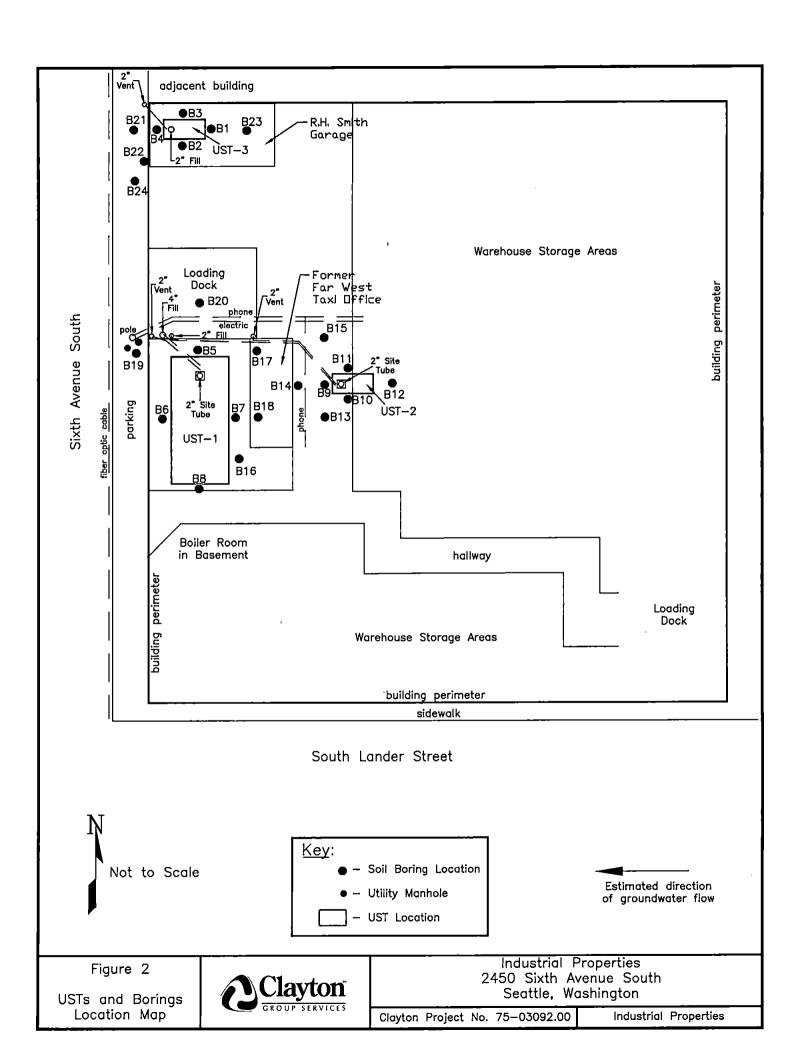
Site Location

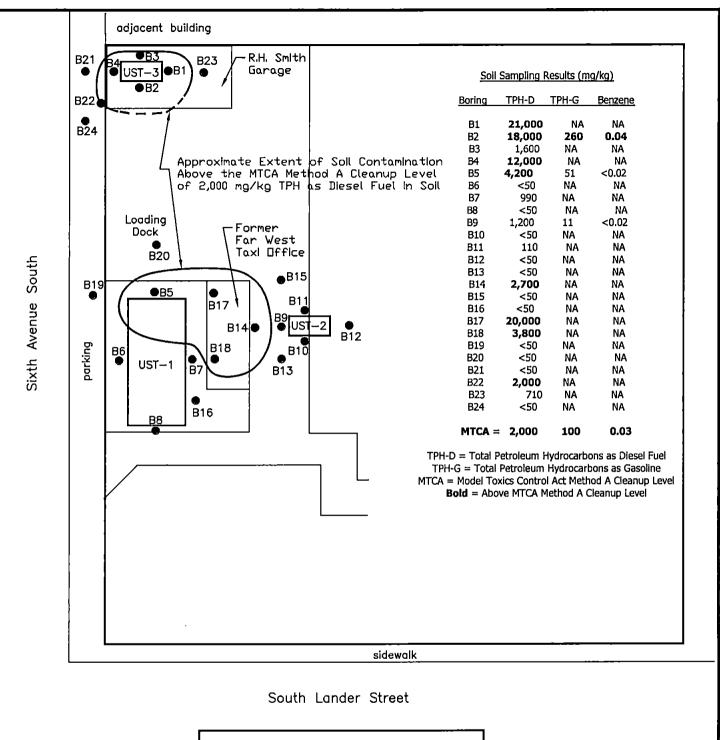


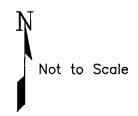
Industrial Properties 2450 Sixth Avenue South Seattle, Washington 98134

Clayton Project 75-03092.00

Industrial Properties







Key:

- Soil Boring Above MTCA Method A
- - Soil Boring Below MTCA Method A
- Approximate Extent of Soil
 Contamination Above 2,000 mg/kg
 TPH as Diesel Fuel (MTCA Method A)

Estimated direction of groundwater flow

Figure 3

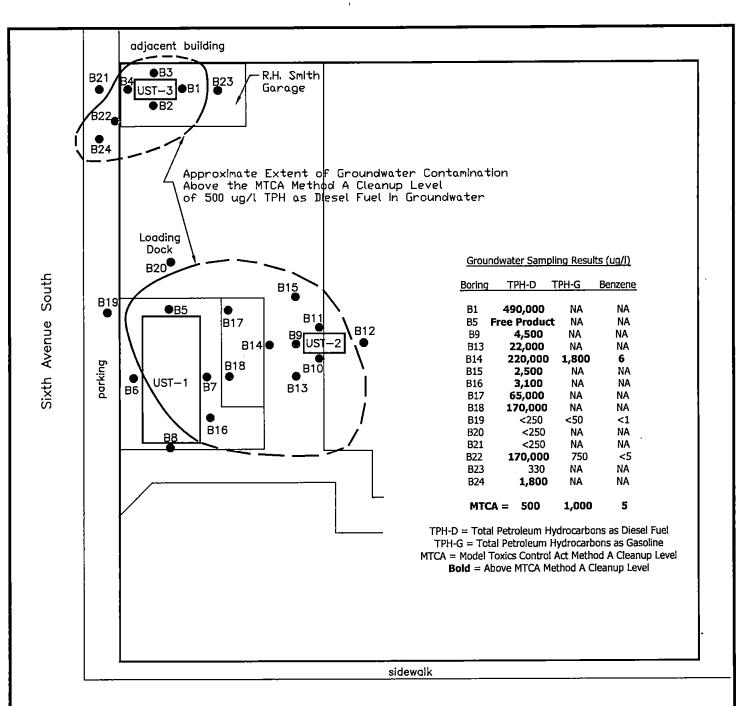
Diesel Fuel in Soil Concentration Map



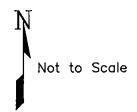
Industrial Properties 2450 Sixth Avenue South Seattle, Washington

Clayton Project No. 75-03092.00

Industrial Properties



South Lander Street



Key:

- - . Soil Boring Above MTCA Method A
- - Soil Boring Below MTCA Method A
- Approximate Extent of Groundwater Contamination Above 500 ug/l TPH as Diesel Fuel (MTCA Method A)

Estimated direction of groundwater flow

Figure 4
Diesel Fuel in
Groundwater
Concentration Map



Industrial Properties 2450 Sixth Avenue South Seattle, Washington

Clayton Project No. 75-03092.00

Industrial Properties



TABLES



TABLE 1. SOIL SAMPLING PHOTOIONIZATION DETECTOR RESULTS. Industrial Properties, Inc. - 2450 Sixth Avenue South, Seattle, Washington

Depth	B1	B2	В3	B4	B5	В6
(Ft. BGS)	(ppm PID)	(ppm PID)	(ppm PID)	(ppm PID)	(ppm PID)	(ppm PID)
0-3'	0.2	2.1	0.6	0.5	0.4	0.8
3-6'	0.4	2.4	0.4	0.9	0.5	2.0
6-9'	131	157	41.2	101	0.9	1.2
9-12'	7.4	-	-	_	35.1	2.6
12-15'	-	-	-	-	34.2	_
Depth	B 7	В8	B9	B10	B11	D10
(Ft. BGS)	(ppm PID)	(ppm PID)	(ppm PID)	(ppm PID)		B12
				<u>(Ծիա եւթ)</u>	(ppm PID)	(ppm PID)
0-3'	0.7	0.7	0.3	0.4	0.2	0.3
3-6'	1.2	NR	0.9	4.1	0.9	0.5
6-9'	1.3	NR	1.2	-	1.6	0.8
9-12'	30.4	1.4	57.5	-	0.7	8.0
12-15'	-	-	41.2	-	-	-
Depth	B13	B14	B15	B16	B17	B18
(Ft. BGS)	(ppm PID)	(ppm PID)	(ppm PID)	(ppm PID)	(ppm_PID)	(ppm PID)
0-3'						
0-3° 3-6'	1.1	1.5	1.4	1.0	1.2	1.3
3-0° 6-9'	1.1	1.3	1.4	1.5	1.4	1.5
0-9 9-12'	0.8 2.4	1.3	1.3	1.4	1.8	1.9
12-15'	1.8	6.8	2.0	2.4	79.5	88.5
12-13	1.0	3.2	1.8	2.1	41.6	49.2
Depth	B19	B20	B21	B22	B23	B24
(Ft. BGS)	(ppm PID)	(ppm PID)	(ppm PID)	(ppm PID)	(ppm PID)	(ppm PID)
0-3'	0.6	0.8	0.7	0.4	0.4	0.8
3-6'	0.6	0.7	0.6	0.5	2.8	0.8
6-9'	0.7	0.8	0.8	40.7	46.2	1.0
9-12'	0.5	0.8	0.8	21.2	4U,2 -	1.0
12-15'	-	-	-	-	<u>-</u>	-

Ft. BGS = feet below ground surface

PID = photoionization detector

B1 = soil boring identification

NR = no recovery

Bold = sample submitted for laboratory analysis



TABLE 2. LABORATORY ANALYTICAL RESULTS SUMMARY (TPH and BTEX). Industrial Properties, Inc. - 2450 Sixth Avenue South, Seattle, Washington

Soil Sampling Results

Boring <u>Location</u>	Sample <u>ID</u>	Sample Depth (feet bgs)	TPH as Diesel Fuel (mg/kg)	TPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
UST-1								
B5	112602-S5	9-12'	4,200	51	< 0.02	< 0.02	0.04	< 0.02
B6	112602-S6	9-12'	<50	NA	NA	NA	NA	~0.02 NA
B7	112602-S7	9-12'	990	NA	NA	NA	NA NA	NA NA
В8	112602-S8	· 9-12'	<50	NA	NA	NA	· NA	NA NA
B16	010603-S4	9-12'	<50	NA	NA	NA	NA NA	NA NA
B17	010603-S5	9-12'	20,000	NA	NA	NA	NA NA	NA NA
B18	010603-S6	9-12'	3,800	NA	NA	NA	NA NA	NA NA
B19	010703-S1	6-9'	<50	NA	NA	NA	NA NA	NA NA
B20	010703-S2	6-9'	<50	NA	NA	NA	NA NA	NA NA
<u>UST-2</u>								
B9	112602-S9	9-12'	1,200	11	< 0.02	< 0.02	< 0.02	0.05
B10	112602-S10	3-6'	<50	NA	NA	NA	NA	NA
B11	112602-S11	6-9'	110	NA	ŅΑ	NA	NA	NA
B12	112602-S12	6-9'	< 50	NA	NA	NA	NA	NA
B13	010603-S1	9-12'	<50	NA	NA	NA	NA	NA
B14	010603-S2	9-12'	2,700	NA	NA	NA	ΝA	NA
B15	010603-S3	9-12'	<50	NA	NA	NA	NA	NA
UST-3								
B1	112602-S1	6-9'	21,000	NA	NA	NA	NA	NA
B2	112602-S2	6-9'	18,000	260	0.04	0.03	0.93	0.94
B3	112602-S3	6-9'	1,600	NA	NA	NA	NA	NA
B4	112602-S4	6-9'	12,000	NA	NA	NA	NA	NA
B21	010703-S3	6-9'	<50	NA	NA	NA	NA	NA
B22	010703-S4	6-9'	2,000	NA	NA	NA	NA	NA
B23	010703-S5	6-9'	710	NA	NA	NA	NA	NA
B24	010703-S6	6-9'	<50	NA	NA	NA	NA	NA
MTCA	Method A Clea	nup Level =	2,000	100	0.03	7	6	9



TABLE 2. Continued

Groundwater Sampling Results

Boring <u>Location</u>	Sample <u>ID</u>	Sample Depth (feet bgs)	TPH as Diesel Fuel (ug/l)	TPH as Gasoline (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)
UST-1								
B5	112602-GW2	12'	Free Product	NA	NA	NA	NA	NA
B16	010603-GW4	12'	3,100	NA	NA	NA	NA	NA
B17	010603-GW5	12'	65,000	NA	NA	NA	NA	NA
B18	010603-GW6	12'	170,000	NA	NA	NA	NA	NA
B19	010703-GW1	9'	<250	<50	<1	<1	<1	<1
B20	010703÷GW2	. 8'	<250	'NA	NA	NA	. NA	NA
UST-2 B9 B13 B14 B15	112602-GW3 010603-GW1 010603-GW2 010603-GW3	12' 10' 10' 11'	4,500 22,000 220,000 2,500	NA NA 1,800 NA	NA NA 6 NA	NA NA <5 NA	ŅA NA <5 NA	NA NA 8 NA
UST-3								
Bl	112602-GW1	8'	490,000	NA	NA	NA	NA	NA
B21	010703-GW3	7'	<250	NA	NA	NA	NA	NA
B22	010703-GW4	8'	170,000	750	<5	<5	11	11
B23	010703-GW5	7'	330	NA	NA	NA	NA	NA
B24	010703-GW6	7'	1,800	NA	NA	NA	NA	NA
MTCA	Method A Clear	nup Level =	500	1,000	5	1,000	700	1,000

bgs = below ground surface

TPH = total petroleum hydrocarbons

mg/kg = milligrams per kilogram (or parts per million (ppm))

ug/l = micrograms per liter (or parts per billion (ppb))

UST = underground storage tank

B1 = GeoProbe soil boring identification

Bold = concentration above the above MTCA Mehtod A Cleanup Level

MTCA = State of Washington Department of Ecology Model Toxics Control Act

NA = not analyzed



TABLE 3. SOIL PAH LABORATORY RESULTS SUMMARY - NOVEMBER 26, 2002. Industrial Properties, Inc. - 2450 Sixth Avenue South, Seattle, Washington

Soil Sampling Results

Boring <u>Location</u>	Sample <u>ID</u>	Sample Depth (feet bgs)	Naphthalene (mg/kg)	Acenaphthylene (mg/kg)	Acenaphthene (mg/kg)	fluorene <u>(mg/kg)</u>	Phenanthrene (mg/kg)
<u>UST-1</u> B5	112602-S5	9-12'	0.12	<0.05	0.22	0.57	1.5
<u>UST-2</u> B9	112602-S9	9-12'	<0.05	<0.05	0.14	0.31	0.75
<u>UST-3</u> B2	112602-S2	6-9'	12	<0.5	1.5	3.5	7.3
CLARC	Method A Clea Method B Clea Method C Clea	nup Level =	5 1,600 70,000	- -	- 4,800 210,000	3,200 140,000	- - -
Boring Location	Sample <u>ID</u>	Sample Depth (feet bgs)	Anthracene (mg/kg)	Fluoranthene (mg/kg)	Pyrene (mg/kg)	Chrysene (carcinogenic) (mg/kg)	Other Carcinogenic PAHs (mg/kg)
_	-	Depth				(carcinogenic)	Carcinogenic PAHs
Location UST-1	<u>ID</u>	Depth (feet bgs)	(mg/kg)	<u>(mg/kg)</u>	(mg/kg)	(carcinogenic) (mg/kg)	Carcinogenic PAHs (mg/kg)
Location UST-1 B5 UST-2	<u>ID</u> 112602-S5	Depth (feet bgs)	(mg/kg) <0.05	(mg/kg) 0.051	(mg/kg) 0.21	(carcinogenic) (mg/kg) <0.05	Carcinogenic PAHs (mg/kg) <0.05

bgs = below ground surface

PAH = poly-nuclear aromatic hydrocarbons

mg/kg = milligrams per kilogram

UST = underground storage tank

B1 = GeoProble soil boring identification (11.26.02)

Bold = concentration above established Cleanup Level

MTCA = State of Washington Department of Ecology Model Toxics Control Act

CLARC = Cleanup Levels and Risk Calculations (Publication No. 94-145, November 2001)

Method B = direct contact (ingestion only) - unrestricted land use

Method C = direct contact (ingestion only) - industrial land use



TABLE 4. GROUNDWATER PAH LABORATORY RESULTS SUMMARY - JANUARY 6&7, 2003. Industrial Properties, Inc. - 2450 Sixth Avenue South, Seattle, Washington

Groundwater Sampling Results

Boring Location	Sample <u>ID</u>	Sample Depth (feet bgs)	Naphthalene (ug/l)	Acenaphthylene (ug/l)	Acenaphthene (ug/l)	Fluorene <u>(ug/l)</u>	Phenanthrene
<u>UST-1</u> B19	010703-GW1	9'	<0.1	<0.1	<0.1	<0.1	0.3
<u>UST-2</u> B14	010603-GW2	10'	21	<1	46	140	220
<u>UST-3</u> B22	010703-GW4	8'	23	<1	32	88	 120
CLARC	Method A Clea Method B Clea Method C Clea	nup Level =	160 160 350	- - -	- 960 2,100	- 640 1,400	- - -
Boring Location	Sample <u>ID</u>	Sample Depth (feet bgs)	Fluoranthene (ug/l)	Pyrene (ug/l)	Benz(a) anthracene (ug/l)	Chrysene (carcinogenic) (ug/l)	Other Carcinogenic PAHs (ug/l)
<u>UST-1</u> B19	010703-GW1	9'	<0.1	<0.1	<0.1	<0.1	<0.1
<u>UST-2</u> B14	010603-GW2	10'	5	23	3	5	<1
<u>UST-3</u> B22	010703-GW4	8'	8	. 11	1	2	<1
	Method A Clear Method B Clear		- 640	- 480	0.1 0.012	0.1 0.012	0.1 0.012

1,050

0.12

0.12

0.12

bgs = below ground surface

PAH = poly-nuclear aromatic hydrocarbons

CLARC Method C Cleanup Level =

ug/l = micrograms per liter

UST = underground storage tank

B19 = GeoProble soil boring identification (01.07.02)

Bold = concentration above established Cleanup Level

MTCA = State of Washington Department of Ecology Model Toxics Control Act

CLARC = Cleanup Levels and Risk Calculations (Publication No. 94-145, November 2001)

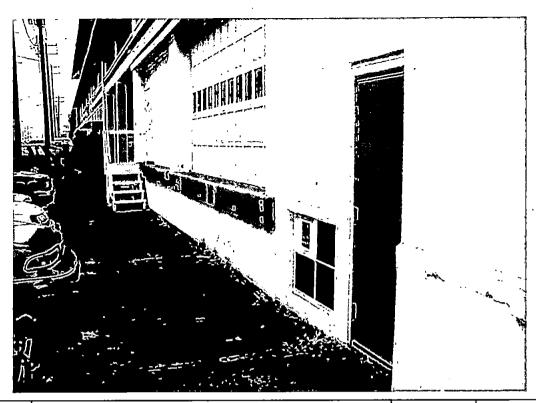
1,400

Method B = potable groundwater (Publication No. 94-145, November 2001)

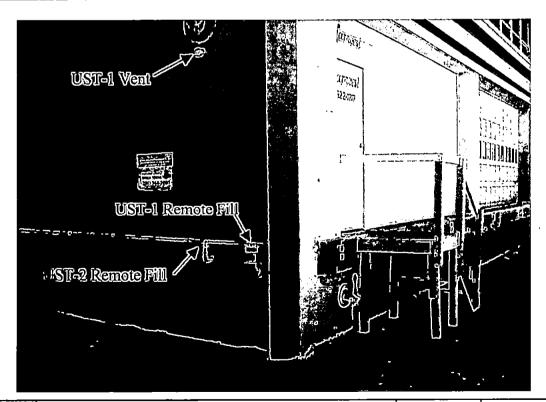
Method C = potable groundwater (Publication No. 94-145, November 2001)



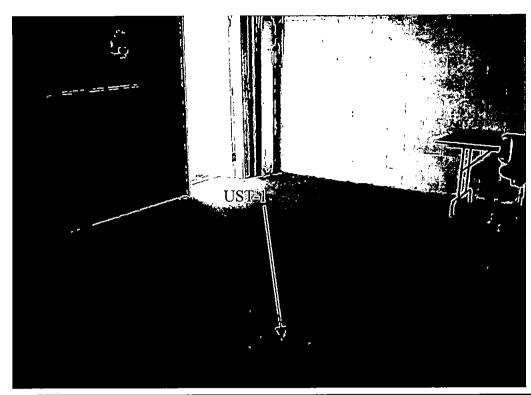
APPENDIX A PHOTOTGRAPHS



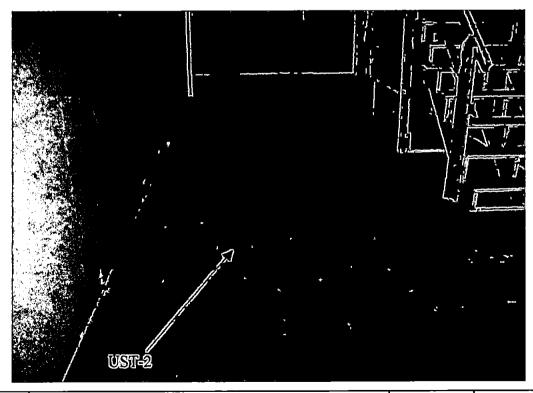
Subject	Outside (west) of former Far West Taxi office (UST-1 location), looking north.	Clayton	1
	2450 Sixth Avenue South, Seattle, Washington	Project No.	Date
Client	Industrial Properties, Inc.	75-03092.00	21 Nov 2002



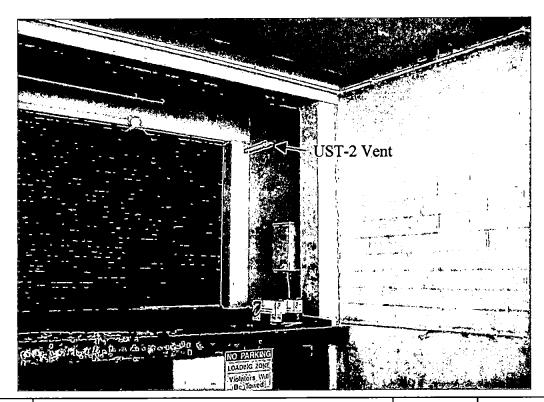
Subject	Remote fills for UST-1 and UST-2, and vent for UST-1; south end of loading dock, north wall of former Far West Taxi office.	Clayton	2
Site	2450 Sixth Avenue South, Seattle, Washington	Project No.	Date
Client	Industrial Properties, Inc.	75-03092.00	21 Nov 2002



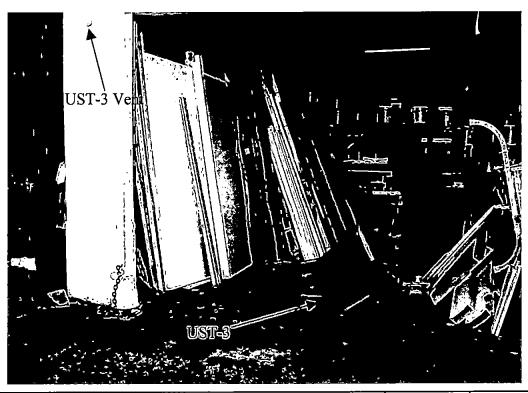
Subject	Manhole to site tube for UST-1 (10,000-gallon heating fuel UST), located just inside former Far West Taxi office.	Clayton	3 .
Site	2450 Sixth Avenue South, Seattle, Washington	Project No.	Date
Client	Industrial Properties, Inc.	75-03092.00	21 Nov 2002



Subject	Manhole to site tube for UST-2 (500-gallon heating fuel UST), located east of UST-1 and former Far West Taxi office.	Clayton	4
Site	2450 Sixth Avenue South, Seattle, Washington	Project No.	Date
Client	Industrial Properties, Inc.	75-03092.00	21 Nov 2002



Subject	Vent line for UST-2 on south wall of loading dock.	Clayton	5
Site	2450 Sixth Avenue South, Seattle, Washington	Project No.	Date
Client	Industrial Properties, Inc.	75-03092.00	21 Nov 2002



Subject	R.H. Smith garage (location of UST-3), showing vent line on outside wall to the north.	Clayton	6
	2450 Sixth Avenue South, Seattle, Washington	Project No.	Date
Client	Industrial Properties, Inc.	75-03092.00	21 Nov 2002



Client Industrial Properties, Inc.

75-03092.00

21 Nov 2002



APPENDIX B SOIL BORING LOGS

	Clayton Bo	- •••6 	<u></u>		В					
Final depth	12 feet BGS	Į,	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID
Page	1 of 1	7 0	Н		├-	0-6" Concrete			<u> </u>	<u> </u>
	2' east of UST-3	7				SILT with sand and gravel	Dark	Dry		0.2
location	,		1			· ·	Brown			5.2
		Ш.								
									1	
		-,	↓					}		. }
Client	Industrial Properties, Inc.							ľ		0.4
		4						1		İ
		"	1					i		
Project No.	75-03092,00	╗┢═	1 1						İ	
		-							1	
Site	Industrial Properties, Inc.	6	1			Soil sample 112602-S1 collected from				131
	2450 Sixth Avenue South					6-9' bgs		1		
	Seattle, Washinton 98134]			Petroleum odor observed ~7' bgs	ŀ	ì	Petrol Odor	
		<u> </u>				_]	
	L	_ 8				Groundwater encountered ~ 8' bgs		Wet	ł	
Clauta	Gran Fooria	¬I—				Groundwater sample 112602-GW1				
Clayton geologist	Greg Ferris									7.4
georogisi Driller		10				CLAY with silt	Gray	Wet		
Start date		''				Cont will gut	Giay	144.00		
Final date			1			·			}	
Method	Limited Access Geoprobe	Ħ							1	
Auger OD	2 inches	12	1			Boring Terminated 12' bgs	ļ			
Sampler	Split Spoon	_ _				-			İ	
Elevation										
Datum		╨								
nund surface	fect	_] 14						ļ		
	· · · · · · · · · · · · · · · · · · ·	⊣—						1		
onitoring We		- ,						1	l .	i
OC elevation Grout	feet BGS	16						1		
interval	feet BGS	110						Ì		
entonite plug	feet thick		1 1							
Filter pack	feet BGS	┨								
interval	feet BGS	18	1 1							
creen length	feet									
Slot size	inches	4	i I							
reen bottom	feet BGS									ļ l
rout method		20						1		
ack material out material		\parallel								
Development		\dashv			'					
Yell lock No.		22			- 1					Ì
iroundwater	Date I									
Static level	feet below TOC									
Elevation .	feet	24								
hime purged	gallons	\parallel								
Conductivity Temperature	μmhos °F	4 1								
етрегание рН	, r	26			į					
1/11	Date 2	4"			[
Static level	feet below TOC	╢━╢								
Elevation	feet									
lume purged	gallons	28								
Conductivity	μmhos									
Temperature	°F									
pН	<u> </u>									
		امدا		1			1	1		
	Claritor	30	1]	- 1					
	Clayton GROUP SERVICES	30								

	Clayton Bo	ring	L		B	<u> </u>				
Final depth	9 feet BGS] n	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID
_	_ 	_ _	_		<u> </u>					<u> </u>
Page		- ∘		ł		0-6" Concrete		1		
Boring	I' south of UST-3	II∟	1			SAND (coarse)	Brown	Dry		2.
location	1	Ш	1		1					
	1							1		1
				1						
]	-	1					
Client	Industrial Properties, Inc.		1			CLAY with silt	Light	Moist	1	2.4
		- 11_					Brown		ļ	}
		4	1		'				Ì	1
								}		
Project No.	75-03092.00]		1	SILT with sand	Dark	Moist		
		7		1			Brown	,	ļ.	
Site	Industrial Properties, Inc.	6	1			Soil sample 112602-S2 collected from			·	157
	2450 Sixth Avenue South	ll l	ľ			6-9' bgs			i	İ
	Seattle, Washinton 98134		1			Petroleum odor observed ~7' bgs			Petrol Odor	
			l			•]		
		8	1	1				ì		
		_				Groundwater encountered ~9' bgs	1		!	
Clayton	Greg Ferris	$\neg \vdash \!$	1	1		Groundwater sample not collected	1			}
geologist	-			1		Boring Terminated 9' bgs		1		
	ESN	10	1			<u> </u>		1		
		-	1							
		Ш			H				.	
Auger OD	2 inches	12	i	ľ						
	Į.			1	i I					
Elevation		╁	ı							
Datum			1							
und surface	feet	14						l		ľ
		٠, ال	1						1	
onitoring Wes		⊣⊢	i					1		
C elevation		\dashv					Į.	1		
C elevation Grout	feet	16	l				1			
	feet BGS	110								
interval	feet BGS		{	ì						
ntonite plug	feet thick	⊣ I					1			
Filter pack	feet BGS	1			ll			Į.		
interval	feet BGS	18								
creen length	feet	┈	İ							
Slot size	inches]]						
reen bottom	feet BGS	-								
ront method		20								
ick material		₩								
out material		-11								
evelopment		1								
ell lock No.	<u> </u>	_ 22						[
roundwater	B. I	⊣⊢								
	Date I	⊣								
Static level	feet below TOC	1								
Elevation	feet	24								
ume purged	gallons	⊩								
onductivity	μmhos	- 11 .			{					
'emperature	°F									
pH		26			۱					
	Date 2	4 —								
Static level	feet below TOC			1 1						
Elevation	feet	<u> </u>	!				1 :			
ume purged	gallons	28	1		- 1					
	μmhos _.	نـــال			}					
onductivity		11 -		1						
	°F				- 1					1
Conductivity	°F									
Conductivity Cemperature		30								
onductivity emperature	Clayton	30								

	Clayton Bor	ing	L		В	3				
Final depth	9 feet BGS] ſſ	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID
Page Boring location	1 of 1 1' north of UST-3	0				0-6" Concrete SAND (coarse)	Brown	Dry		0.6
Client	Industrial Properties, Inc.	2				CLAY with silt	Light Brown	Moist		0.4
	75-03092,00	4				SILT with sand	Dark Brown	Moist		:
* Sue	Industrial Properties, Inc. 2450 Sixth Avenue South Seattle, Washinton 98134	6				Soil sample 112602-S3 collected from 6-9' bgs Petroleum odor observed ~7' bgs			Petrol Odor	41.2
Clayton geologist	Greg Ferris	8				Groundwater encountered ~9' bgs Groundwater sample not collected				
Driller Start date Final date	11/26/2002 11/26/2002	10				Boring Terminated 9' bgs		-		
Auger OD	Limited Access Geoprobe 2 inches Split Spoon	12								
Datum ound surface	feet	14								
onitoring Wel OC elevation Grout interval	feet feet BGS feet BGS	16								
entonite plug Filter pack interval	feet thick feet BGS feet BGS	18								
creen length Slot size creen bottom rout method	feet inches feet BGS	20								
ack material out material Development Vell lock No.	<u> </u>	22								
roundwater Static level	Date I feet below TOC									
Elevation ume purged 'onductivity 'emperature	feet gallons µmhos °F	24								
pH Static level Elevation	Date 2 feet below TOC feet	26								
ime purged onductivity emperature	gallons µmhos °F	28								
pH	Clayton	30								

Boring Leg

	Clayton Box	ung		В	4				
Final depth	9 feet BGS] n	R Soil	N	Soil Type	Color	Soil Moisture	Comment	PID ppm
Page Boring location	1 of 1 I'west of UST-3	0			0-6" Concrete SAND (coarse)	Brown	Dry		0,5
] 2							
Client	Industrial Properties, Inc.								0.9
Project No.	75-03092.00	Ĵ│⁴│ ┐├─┤							
Site	Industrial Properties, Inc. 2450 Sixth Avenue South	6			SILT with sand	Dark Brown	Moist		101
	Scattle, Washinton 98134				Soil sample 112602-S4 collected from 6-9' bgs	Brown		Petrol Odor	
Clayton	Greg Ferris	8			Petroleum odor observed ~7' bgs		ii:		
geologist Driller		10			Groundwater encountered ~ 9' bgs Groundwater sample not collected Boring Terminated 9' bgs				
Start date Final date Method	11/26/2002 11/26/2002 Limited Access Geoprobe								
Auger OD Sampler	2 inches Split Spoon	12							
Elevation Datum ound surface	feet	14							,
onitoring We									
OC elevation Grout interval	feet BGS feet BGS	16				,			
ntonite plug Filter pack	feet thick feet BGS								
interval creen length Slot size	feet BGS feet inches	18							
reen bottom rout method	feet BGS	20							
ack material out material Development					,			,	
Vell lock No.		22							
Static level Elevation	Date I feet below TOC feet	24							
nne purged Conductivity	gallons µmhos	$\ \cdot\ $							
mperature pH	°F Date 2	26							
Static level Elevation	feet below TOC feet							'	
nne purged onductivity emperature	gallons µmhos °F	28							
рН	Clayton	30							
(GROUP SERVICES	H							

	Clayton Bor	mg	L_		B	3					
Final depth	15 feet BGS] [r	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	ppm PID]
		_ _	L								L
Page Boring location	3' north of UST-I	°				0-6" Concrete SAND (coarse) with silt and clay	Brown	Dry		0.4	88
		2									
Client	Industrial Properties, Inc.									0.5	
											
Project No.	75-03092.00]									
Site	Industrial Properties, Inc. 2450 Sixth Avenue South Seattle, Washinton 98134	6								0.9	
		8									
	Greg Ferris	\dagger								35.1	
geologist Driller		10				SILT with sand	Brown	Moist			
	11/26/2002 11/26/2002		i			CLAY with silt	Gran	Maint	Dotani Odov		
	Limited Access Geoprobe	ll l				Petroleum odor observed ~11' bgs	Gray	Moist	Petrol Odor		
Auger OD	2 inches	12				Groundwater encountered ~ 12' bgs				34.2	
Sampler	Split Spoon					Groundwater sample 112602-GW2					
Elevation						Soil sample 112602-S5 collected from	1	,			
Datum ound surface	feet	14				9-12' bgs	Block	Wat			
отне мазиск	1661	۱" الـ				SAND (coarse) with silt and gravel Petroleum sheen (free product) observed	Black	Wet			
lonitoring We		7				on water sample collected					150
OC elevation	 	╢				Boring Terminated 15' bgs					
Grout	feet BGS	16	1			5					
interval	feet BGS	ДЩ									
entonite plug	feet thick	╢┈							İ		
Filter pack interval	feet BGS feet BGS	18					1				l
Screen length	feet BGS	╢╚									
Slot size	inches		1								
creen hottom	feet BGS	1 1	l i								
irout method		20									
ack material											
out material		4									l
Development Vell lock No.		22									
Groundwater	Daic I	\dashv									
Static level	feet below TOC	1					1				ĺ
Elevation	feet	24					1	i			
hime purged	gallons										l
Conductivity	μmhos										l
l'emperature	°F										l
ρH	Date 2	26									l
Static level	feet below TOC	H - H			1						l
Elevation	feet				- 1						
hane purged	gallons	28			I						
Conductivity	μmhos			1							l
Temperature pH	°F										
7:1	<u> </u>	30									l
	Clayton										•

	Clayton Bo	ring			B	6	╛			
Final depth	12 feet BGS	u	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID ppm
Page	1 of 1	-	L			0-6" Concrete		-		ļ
	2' west of UST-1					SAND (coarse) with silt and clay	Brown	Dry		0.8
ar.		·2						}		
Client	Industrial Properties, fuc.	4								2.0
Project No.	75-03092.00									
Site	Industrial Properties, Inc. 2450 Sixth Avenue South	6								1.2
	Seattle, Washinton 98134	8				SAND (coarse) with gravel	Brown	Dry		
	Greg Ferris	$\frac{1}{1}$				<u>-</u>				2.6
geologist Driller	ESN 11/26/2002	10								
Final date	11/26/2002 Limited Access Geoprobe					CLAY with silt	Gray	Moist		
Auger OD	2 inches Split Spoon	12				Groundwater encountered ~ 12' bgs Groundwater sample not collected				
Elevation Datum						Soil sample 112602-S6 collected from 9-12' bgs				
round surface	feet] [14]				Boring Terminated 12' bgs				
tonitoring We OC elevation	// feet	$\parallel \parallel$								
Grout interval	feet BGS feet BGS	16								
entonite plug Filter pack	feet thick feet BGS	$\exists \Box$								
interval Screen length	feet BGS	18								
Slot size creen hottom	inches feet BGS	$\exists \Box$								
Trout method Pack material		20							!	
rout material Development		╢								
Well lock No.		22		i						
Static level	Date I feet below TOC									
Elevation dume purged Conductivity	feet gallons	24								
Тетрегаште	µmhos °F	26								
pH	Date 2	26								
Static level Elevation	eet below TOC feet									
lume purged Conductivity Temperature	gallons . µmhos °F	28								-
pH		30								
	Clayton									ĺ

	Clayton Bo	ring	L		B	7				
Final depth	12 feet BGS	ft	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID ppm
Page	1 of 1				_	0-6" Concrete		-		
	2' cast of UST-1					SAND (coarse) with silt and clay	Brown	Dry		0.7
		_ 2	1							
Client	Industrial Properties, Inc.									1.2
		4								
Project No.	75-03092.00									
	Industrial Properties, Inc. 2450 Sixth Avenue South	6		•						1.3
	Scattle, Washinton 98134	8				SAND (coarse) with gravel	Brown	Dry		
		_				Ditio (coulde) with glaver	Biowii	Diy		
Clayton geologist	Greg Ferris									30.4
Dritter	ESN 11/26/2002	10								
Start date Final date	11/26/2002	-	}			CLAY with silt	Gray	Moist	Petrol Odor	
	Limited Access Geoprobe					Petroleum odor observed ~11 bgs	City	1410131	r Citor Odor	
Auger OD	2 inches	12				Groundwater encountered ~ 12' bgs	`			
	Split Spoon	┵				Groundwater sample not collected				
Elevation Datum		-				Soil sample 112602-S7 collected from 9-12' bgs				
ound surface	feet	14				9-12 bgs Boring Terminated 12' bgs				
		\Box				-	j			
fonitoring We		╢┃								
OC elevation	feet FCC	╢╌								
Grout interval	feet BGS feet BGS	16								
entonite plug	feet thick	╢								
Filter pack	feet BGS	-								i
interval	feet BGS	18			1					
Screen length	feet		Ì							1
Slot size	inches	-∥				•				
creen hottom	feet BGS	- -								i
irout method Pack material		20								
ront material		\parallel			l		i			
Development		┧[_			ļ		1	1		
Vell lock No.		22				-				
	n: -	╌╟╌┤	- 1	1	`		1			
Groundwater Static level	Date I feet below TOC	-								
Elevation	feet below IOC	24					1			
dume purged	gallons	~"								
	μmhos						-			
Conductivity							1			
- 1	°F		- 1							
- 1		26	, j		- 1		1	ı		. I
Temperature pH	Date 2	26								
Temperature pH Static level	Date 2 feet below TOC	26								
Temperature pH Static level Elevation	Date 2 feet below TOC feet									
Static level Elevation dume purged	Date 2 feet below TOC feet gallons	26								
Temperature pH Static level Elevation dume purged ('onductivity	Date 2 feet below TOC feet									
Temperature pH Static level Elevation dume purged	Date 2 feet below TOC feet gallons µmhos					·				
Temperature pH Static level Elevation lume purged (Conductivity Temperature	Date 2 feet below TOC feet gallons µmhos °F					·				
Temperature pH Static level Elevation lume purged (Conductivity Temperature	Date 2 feet below TOC feet gallons µmhos	28				·				

	Clayton Bo	rıng	L		В	<u> </u>				
Final depth	12 feet BGS		R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID
Page Boring location		0				0-6" Concrete SAND (coarse) with silt and clay	Brown	Dry	<u> </u>	0.7
		2								
(Tient	Industrial Properties, Inc.	4								NA
Project No.	75-03092.00	$\exists \vdash$								
	Industrial Properties, Inc. 2450 Sixth Avenue South Seattle, Washinton 98134	6					,			NA
] 8				SAND (coarse) with gravel	Brown	Dry		
geologist										1.4
		10								
Method						CLAY with silt	Gray	Moist		
	2 inches Split Spoon	12				Groundwater encountered ~ 12' bgs Groundwater sample not collected				
Elevation Datum		1				Soil sample 112602-S8 collected from 9-12' bgs				
ouna surjace	feet	14				Boring Terminated 12' bgs	ı			
fonitoring We										
OC elevation Grout	feet BGS	16								
interval	feet BGS	''					ł			
entonite plug	feet thick	╢	1							
Filter pack	feet BGS	-	1 1		1			<u> </u>		
interval	feet BGS	18	{					1		
Screen length	feet BOS	-{ '°	1 1					1 1		
Slot size	inches		1 1					l i		
creen hottom	feet BGS									
Front method	leet DG3	20	ł i					1 1		
ack material		20								
rout material		\vdash								1
Development	-	\dashv								1
Well lock No.		22								}
	· · · · · · · · · · · · · · · · · · ·	리 " "								
iroundwater	Date 1	$\neg \vdash \vdash$	1]
Static level	feet below TOC	- 						; 1		
Elevation	feet	24	1					1 I		
iume purged	gallons	-								
Conductivity	μmhos		1 1					1		
Temperature	of humos	- -				·		1		
гетрегите рН	•	26								
pri	Date 2	- ²⁰						[
	Date 2	╢								:
Carrie 1	feet below TOC									
Static level	feet									
Elevation		11	ıl]		
Elevation dume purged	gallons	28					1			
Elevation dume purged Conductivity	gallons µmhos	28		1		•	1		•	
Elevation dume purged Conductivity Temperature	gallons	28				•			•	
Elevation dume purged Conductivity	gallons µmhos °F	30				·				
Elevation dume purged Conductivity Temperature	gallons µmhos									

	Clayton Bo	ring	L		B	·				
Final depth	16 feet BGS	ft	R	Soil	Ň	Soil Type	Color	Soil Moisture	Comment	P1D ppm
Page Boring location	I of I I' west of UST-2	0				0-6" Concrete SAND (coarse) with silt and gravel	Brown	Dry		0.3
		2								
Client	Industrial Properties, Inc.									0.9
Project No.	75-03092,00	_ 4 _ —								
Site	Industrial Properties, Inc. 2450 Sixth Avenue South Seattle, Washinton 98134	6								1.2
		8				SILT with sand and gravel	Light Brown	Dry		
Clayton geologist Driller	Greg Ferris ESN	10				Soil sample 112602-S9 collected from	J.G.M.			57.5
Start date Final date Method	11/26/2002 11/26/2002 Limited Access Geoprobe					9-12' bgs Petroleum odor observed ~11' bgs Groundwater encountered ~ 12' bgs			Petrol Odor	
Auger OD Sampler Elevation Datum	2 inches Split Spoon	12				Groundwater sample 112602-GW3 collected CLAY with silt	Gray	Wet		41.2
ound surface	feet	14								
onitoring We OC elevation Grout	feet FGS	16				SAND (coarse) with gravel	Black	Wet		9000
interval entonite plug	feet BGS feet thick	╢				Boring Terminated 16' bgs				
Filter pack interval creen length	feet BGS feet BGS feet	18			:					
Slot size creen bottom crout method	inches feet BGS	20								
ack material out material Development		$\ \cdot\ $			į					
ell lock No.	Date 1	22								
Static level Elevation ume purged	fect below TOC fect gallons	24								
onductivity emperature pH	µmhos °F	26								
Static level Elevation	Date 2 feet below TOC									
rsevation ime purged onductivity emperature	feet gallons µmhos °F	28				•				
рН	Clayton	30							!	
	GROUP SERVICES	H								

	Clayton Bo	ring	L		В	10					
Final depth	6 feet BGS] n	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PtD ppm	
D	l of 1	7 0	ļ		ļ.,	0-6" Concrete					
Page Boring location	l' south of UST-2					SAND (coarse) with gravel	Brown	Dry		0,4	**
		_ 2									
Client	Industrial Properties, Inc.	4				Soil sample 112602-S10 collected from 3-6' bgs			l	4.1	
Project No.	75-03092.00										
Site	Industrial Properties, Inc.	6				Boring Terminated 6' bgs (Refusal)					
	2450 Sixth Avenue South Seattle, Washinton 98134	8				Groundwater not encountered Groundwater sample not collected					
<i>(</i> 11 ·	0. 5.	- - -									
geologist	Greg Ferris										
Driller	ESN 11/26/2002	10									
Final date	11/26/2002	\parallel									
	Limited Access Geoprobe	-									
Auger OD Sampler	2 inches Split Spoon	12									
Elevation	<u> </u>	┰					İ				
Datum mnd surface	feet	14						.			
		<u> </u>									
onitoring We		4									
OC elevation Grout	feet feet BGS	16						i			
interval	feet BGS	<u> </u>						}			
entonite plug Filter pack	feet thick feet BGS	-						1			
interval	feet BGS	18						1			
creen length	feet	∏									
Slot size	inches feet BGS	\dashv						}			
irout method		20	١.								
ack material rout material]			
Development	<u> </u>	-									
Vell lock No.]			
iroundwater	Date 1	\dashv									
Static level	feet below TOC	1									
Elevation	feet college	24									
lume purged Conductivity	gallons µmhos .	\parallel									
Temperature	°F										
pН	D-4: 0	26									
Static level	Date 2 feet below TOC	╢									
Elevation	feet below 100										
lume purged	gallons	28									
Conductivity Temperature	· μmhos	⊩			.						
pH											
	Clariton	30									
	Clayton	-									
	GROUP SERVICES]	ı					1		1 1	

	Clayton Bo	ring	L		В	11				
Final depth	10 feet BGS	fi	R	Soil	N	Soit Type	Color	Soil Moisture	Comment	PID
		_ _	<u> </u>		<u>L.</u>					
Page		- ∥ °				0-6" Concrete				
Boring		}	4			SAND (coarse) with gravel	Brown	Dry		0.2
location	Ì									
		╟	4							
		_ 2						•		
		-,			1					
Client	Industrial Properties, Inc.		ł							0.9
		II—	4		Ι.					{
		_ 4					1			
n : . M	TE 02002 00		4							i L
Project No.	75-03092,00	_				SILT with sand and gravel	Gray	Dry		[
0	to the state of th	┑┝╌	-							
	Industrial Properties, Inc.	6				Soil sample 112602-S11 collected from				1,6
	2450 Sixth Avenue South Seattle, Washinton 98134	┈	1			6-9' bgs				
	Seattle, washinton 98134									
		-								
1										
Clayton	Greg Ferris	$\neg \vdash$					1			[
geologist	GIVE I GITA							; I		0.7
Driller	FSN	10				Roring Terminated 10ther (Before)	1	1) [
Start date		''				Boring Terminated 10' bgs (Refusal)				
	11/26/2002	⊩	1							
								1		{
Auger OD	2 inches	12	1			Groundwater not encountered	ł			
	Split Spoon	''	H			Groundwater sample not collected				
Elevation	Spin Speed	┧├──	1 1			Croundwater sample not conceted				
Datum		-]		
und surface	feet	14						1		
		-1 "								
nitoring Wes	11	╗┝═	1 1					! 1		
C elevation	feet	-	l					1		
Grout	feet BGS	16]		
interval	feet BGS	```								
itonite plug	feet thick	7						1 1		
Filter pack	feet BGS	7)						l		
interval	feet BGS	18	1 1							
reen length	fcet	7					1			
Slot size	inches									
ven bottom	feet BGS									
out method		20]		
ck material					1					
ut material		╝			- 1					
evelopment		\parallel			J					
ell lock No.		」 22			J			l l		
		╌╟╌┥			J			į l		ł
oundwater	Date I	┦┃								- 1
Static level	feet below TOC									- 1
Elevation	feet 	24								- 1
mic purged	gallons	\parallel								- 1
onductivity	μmhos			- 1						- 1
emperature 	°F									- 1
pH	D. 0	26								
Statis I.	Date 2	╢								- 1
Static level	feet below TOC									1
Elevation	feet				-					- 1
me purged	gallons	28								- 1
onductivity	μmhos	Щ				•				
mperature	°F							'		
		إسال	- 1		- [
pН										
PH	Clayton	30		ł	ļ					
PH	Clayton GROUP SERVICES	30		1						

	Clayton Bo	ring	L		В	12					
Final depth	10 feet BGS	ft	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID ppm	
Page	l of 1	0	╁			0-6" Concrete	_	 			×
	2' east of UST-2	٦١				SAND (coarse) with gravel	Brown	Dry		0.3	ř
location					l					1 1	ŀ
		2	┨								ŀ
		~								1	ŀ
Client	Industrial Properties, Inc.	\neg	1					1		0.5	ŀ
		_									ŀ
		_					İ				
Project No.	75-03092.00	¬├─				SILT with sand and gravel	C	D		1 1	Ŀ
Tripecritis.	75 03072,00	-1			}	SICI with saild and graver	Gray	Dry			
Site	Industrial Properties, Inc.	7 6	1			Soil sample 112602-S12 collected from				0.8	
	2450 Sixth Avenue South					6-9' bgs				"	
	Seattle, Washinton 98134	Ш			l						×
	1	-	{								
		_ 8									
Clayton	Greg Ferris	╗┞	1							0.8	
geologist										0.0	
Driller		10				Boring Terminated 10' bgs (Refusal)]		ĺ	
	11/26/2002	‼		i	i			1			
	11/26/2002	Ш						1			
Method Auger (11)	Limited Access Geoprobe 2 inches	12				Crowndowston and account of		1			
Sampler Sampler	l e e e e e e e e e e e e e e e e e e e	12			ľ	Groundwater not encountered Groundwater sample not collected	-				
Elevation		╢╌	1			Groundwater sample not confeded		1 1			
Datum											
round surface	feet	14								1 1	
	·	بل-									
fonitoring We		4				•					
OC elevation Grout	feet BGS	11.						<u> </u>		1 1	
interval	feet BGS	16									
entonite plug		╬									
Filter pack		1L I					•				
interval	feet BGS	18									
Screen length	feet				li					ł I	
Slot size	inches feet BGS	╢╢								i I	
Grout method	leet bO3	20									
Pack material		- "		ļ							
rout material							}				
Development		Ш						! I			
Vell lock No.] 22									
iroundwater	Date 1	┰┤					1			s	
Static level	feet below TOC	1 1		1							
Elevation	feet	24		1			1				
lume purged	gallons				ı						
Conductivity	μmhos										
Temperature	°F		- [
pН	Date 2	26		j	ļ						
Static level	feet below TOC	╫╢		i	J	•					
Elevation	feet										
lume purged	gallons	28									
Conductivity	μmhos								,		
Temperature	°F										
pН	<u> </u>	لبال			- }						
	Clayton	30					1				
	GROUP SERVICES	\vdash									
	SERVICES	1 1	- 1		- 1		1 1	1	1	1	

	Clayton Bo	ring	L		B	13				
Final depth	16 feet BGS	Tr.	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID ppm
	г 	_ _			L_		_			L
Page Boring location	10' south of B9	0				0-6" Concrete SAND (coarse) with sift and gravel	Brown	Dry		1.1
		2	1							
Client	Industrial Properties, Inc.									1.1
		_ 4								
Project No.	75-03092.00	_								
Site	Industrial Properties, Inc. 2450 Sixth Avenue South Seattle, Washinton 98134	6				SILT with sand and gravel	Gray	Dry		0.8
		8								
Clayton	Greg Ferris	_ _ _				Soil sample 010603-S1 collected from				2.4
geologist Driller	ESN	10				9-12' bgs Groundwater encountered ~ 10' bgs				,
Start date		."				Groundwater encountered ~ 10 bgs				
Final date						CLAY with silt	Gray	Wet		'
Method Auger OD	Limited Access Geoprobe 2 inches					Groundwater sample 010603-GW1				
	Split Spoon	12				collected				1.8
Elevation		╢	l		ı					
Datum		_ _								
ound surface	feet	14			- 1					
lonitoring We		┑┝╾┤				SAMD (coorse) with many	Di. I			
OC elevation	feet	$+ \cdot $				SAND (coarse) with gravel	Black	Wet		
Grout	feet BGS	16			\exists	Boring Terminated 16' bgs				
interval	feet BGS	┵		- 1		•				
entonite plug	feet thick	-								
Filter pack interval	feet BGS feet BGS	18								
Screen length	feet	- '°			ı		l i			
Slot size	inches									
creen hottom	feet BGS]	İ							
iront method ack material		20		Į	- 1					
rout material		\vdash	Į							i
Development		┧凵								
Vell lock No.		- 22					Ì			
iroundwater	Date 1	┰┝╾┤								
Static level	feet below TOC	1	-							
Elevation	feet	24								
lume purged	gallons	\parallel								
Conductivity Temperature	µmhos °F									
рН	•	26	-						1	
	Date 2									
Static level	feet below TOC			ŀ						
Elevation	feet 		H	1				1		
lume purged Conductivity	gallons μπhos	28								
Temperature	°F	\parallel		.		·			Ì	
рН		JL │								
	Clayton	30								
	GROUP SERVICES									

	Clayton Bo	rıng	L		В	14				
Final depth	16 feet BGS	T) ft	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID
Page	l of 1	10	╁╌┧		╁	0-6" Concrete		 	<u> </u>	<u> </u>
Boring location	6' west of B9	1	$\left\{ \ \ \right $			SAND (coarse) with silt and gravel	Brown	Dry		1.5
		2	$\left\{ \ \right\}$							
('lient	Industrial Properties, Inc.	\neg			İ					1.3
•		4	1						}	
Project No.	75-03092.00	기	1							
Site	Industrial Properties, Inc. 2450 Sixth Avenue South	6	1							1.3
	Seattle, Washinton 98134								ĺ	
		8				SILT with sand and gravel	Gray	Dry		
Clayton geologist		$\neg \vdash$				Soil sample 010603-S2 collected from 9-12' bgs				6.8
Driller	ESN	10	1			Groundwater encountered ~ 10' bgs				
Start date	1/6/2003					Groundwater sample 010603-GW2				
Final date			[collected		1		
Method	1	- <u>-</u> -				Petroleum odor observed ~11.5' bgs		ļ	Petrol Odor	
Auger OD	2 inches Split Spoon	12				CLAY with silt	Gray	Wet		3.2
Elevation	оры ароон									
Datum					1					
ound surface	feet	14								
onitoring We	ll				1	SAND (coarse) with gravel	Black	Wet		
OC elevation	feet							!		,
Grout	feet BGS	16			[Boring Terminated 16' bgs				
interval	feet BGS	Д								
ntonite plug	feet thick	-								
Filter pack	feet BGS	10								
interval creen length	feet BGS feet	18								
Slot size	inches									
reen bottom	feet BGS	╢								
rout method		20					1			
ack material										
out material		_								
Development		1								
Vell lock No.	<u> </u>	_ 22								
roundwater	Date I	╗								
Static level	feet below TOC	╢								
Elevation	feet	24								
lume purged	gallons	نطا			1					
Conductivity 	μmhos									j
'emperature	°F									
pН	D 0	26								
Statio I	Date 2	╢								
Static level Elevation	feet below TOC feet									
ume purged	gallons	28								
onductivity	μmhos.	20								
emperature	μπιιοs. °F.	\parallel				·				
		11 1								
pН		┦╤┦			1					
pН	Clayton	30								

	Clayton Bo	rıng	L		В	15				
Final depth	16 feet BGS	ft	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID ppm
Page Boring location	17' north of B9	0				0-6" Concrete SAND (coarse) with silt and gravel	Brown	Dry		1.4
iocure,		2								
Client	Industrial Properties, Inc.	\exists								1.4
Project No.	75-03092.00	4								
	Industrial Properties, Inc.						,			1.3
	2450 Sixth Avenue South Seattle, Washinton 98134					SILT with sand and gravel	Gray	Dry		
Clayton	Greg Ferris	8				Soil sample 010603-S3 collected from				2.0
geologist Driller	ESN	10				9-12' bgs				2.0
Method	1/6/2003 Limited Access Geoprobe					CLAY with silt Groundwater encountered ~ 11' bgs	Gray	Wet		
Auger OD Sampler Elevation	2 inches Split Spoon	12		i		Groundwater sample 010603-GW3 collected				1.8
Datum und surface	feet	14								
onitoring We	## feet			Ì		SAND (coarse) with gravel	Black	Wet		
Grout interval ntonite plug	feet BGS feet BGS feet thick	16				Boring Terminated 16' bgs				
Filter pack interval creen length	feet BGS feet BGS feet	18								
Slot size reen bottom	inches feet BGS									
cont method ck material out material		20								
evelopment ell lock No.		22								
oundwater Static level Elevation	Date I feet below TOC feet	24								
me purged onductivity mperature	gallons µmhos °F		ļ							
pН	Date 2	26								
itatic level Elevation ne purged	feet below TOC feet gallons	28								
nductivity mperature pH	. μmhos °F					·				
	Clayton	30								

	Clayton Bo	, mg	_		В					
Final depth	16 feet BGS	n n	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID ppm
	·	_, _	Ш							
Page	1 of 1	 ⁰			ļ	0-6" Concrete				
Boring	9' south of B7		1 1	!		SAND (coarse) with silt and gravel	Brown	Dry		1.0
location		- ii								
			l l		i		1			
		2	1							
]							ł
Client	Industrial Properties, Inc.		1							1.5
		II.			١.					
		4	1							
		_								l
Project No.	75-03092.00		1							ł
								l		
Site	Industrial Properties, Inc.	. 6				•			•	1.4
	2450 Sixth Avenue South		ΙÍ]		
	Seattle, Washinton 98134		1			SILT with sand and gravel	Gray	Dry		ı
		- -				3				
		8								
		_						j		
Clayton	Greg Ferris	$\neg \vdash \neg$				Soil sample 010603-S4 collected from]		2.4
geologist	_					9-12' bgs		i		2.4
Driller	ESN	10				CLAY with silt	Gray	Moist		
Start date							J,			
Final date			1				1			
	Limited Access Geoprobe							[
Auger (11)	2 inches	12				Groundwater encountered ~ 12' bgs		l i		2,1
-		'~				Groundwater sample 010603-GW4				2,1
Elevation		\dashv				collected		l		İ
Datum		-	ľ		- 1	oniocioa				
ound surface	feet	14					1			
		-1 1	: 1							
onitoring We		╗				CAND (access) with second		l i		!
OC elevation		i i				SAND (coarse) with gravel	Black	Wet		
Grout	feet BGS	16	ŀ			D. C. W. C. LLCII	ļ	i		1
interval	feet BGS	16		i		Boring Terminated 16' bgs	ŀ			
entonite plug	feet thick	$\dashv \vdash \dashv$	ı							
Filter pack	feet BGS	-1 1								
interval	feet BGS	18								
creen length	feet BGS	- '°								
Slot size	inches	\parallel								
reen bottom	feet BGS									
rout method	leet BGS	20	ı							
ack material		20								
out material		IJ 								
Development		-			1					
Vell lock No.		22								
- Jan Landa Jilla	 -	''		1]		
iroundwater	Date I	┑├─┤		l						
Static level	feet below TOC	-∦		l				ļ l		
Elevation	feet	24		l				l		
lume purged	gallons	24		ļ				l		
Conductivity		╢		1				ľ		
Continentity Comperature	ο l: httpo2			- 1						
	-L				- 1			Ì		
pН	D-1-0	- ²⁶								
Stati- I	Date 2	$\dashv \vdash \vdash$			- [
Static level	feet below TOC			ľ	- 1					
Elevation	feet									
une purged	gallons	28			- 1			İ		
Conductivity	μmhos .	\parallel			- [•		-		
emperature	°F							1		
		_					1			'
pH										
pn j	Claritor	30]	
	Clayton	30		ŀ						

	Clayton Bo	ımg	<u></u>	-	D	<u> 17 </u>				
Final depth	15 feet BGS	ft	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID
Page	1 of 1	70	\vdash	_	-	0-6" Concrete		- -		
Boring		IJ				SAND (coarse) with silt and gravel	Brown	Dry		1.2
location			1			· · · · · · · · · · · · · · · · · · ·	15.0			1.4
		2	1 ,							
		_								
Client	Industrial Properties, Inc.	$\neg \vdash \vdash$	1							1.4
		4					-			
		_ _]		l			ŀ		
Project No.	75-03092.00	_]]	H							
		_ _								
Site	Industrial Properties, Inc.	6			ĺ					1.8
	2450 Sixth Avenue South	- ⊩	1					1 1		
	Seattle, Washinton 98134							1		
		8						j		
		- *	Ιl]		
Clayton	Greg Ferris	$\neg \vdash \vdash$				Soil sample 010603-S5 collected from		1		
geologist	_					9-12' bgs				79.5
Driller		10				CLAY with silt	Gray	Moist		
Start date						who sin	Gray	Moist		
Final date						SAND (coarse) with gravel	Gray	Wet		
Method	Limited Access Geoprobe					arma (compo) min graver	[0,0]	'''		l I
Auger OD		12			١,	Groundwater encountered ~ 12' bgs	İ	1		41.6
Sampler	Split Spoon	-				Groundwater sample 010603-GW5				''
Elevation		$\neg \vdash$				collected				
Datum			ŀ				1			
und surface	feet	_ 14								
		-,						<u> </u>		
nitoring We	:II	╝				Boring Terminated 15' bgs				
C elevation	feet		ΙÍ							
Grant	feet BGS	16						1		
interval	feet BGS									
itonite plug		-11						1		
Filter pack	feet BGS							1		
interval	feet BGS	18								-
reen length	feet	-								
Slot size een hottom	inches feet BGS	-								
out method	leet BGS	120								
om memoa ck material		20						1		
nu material		\parallel						}		
evelopment	 	네								
ell lock No.		22								
	·	7 -								
oandwater	Date I									
Static level	feet below TOC	╗ !	- [}
Elevation	feet	24					1			
me purged	gallons									
onductivity	μmhos									
emperature	۰F									
рН		26								
	Date 2	لسالـ								
Static level	feet below TOC							[
Elevation	feet				- 1			1		l
me purged	gallons	28			J					ŀ
onductivity	μmhos ့			Ì	J			.		i
emperature	°F									i
pН										
	Clarton	30		ļ	J					J
				1	- 1		1			
	Clayton	Ш	- 1	Ī	- [J	

	Clayton Bo	ring	L		B	18				
Final depth	13 feet BGS	ft	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID ppm
Page Boring location	1 of 1 8' east and 4' north of B7	0	-			0-6" Concrete SAND (coarse) with silt and gravel	Brown	Dry		1.3
Client	Industrial Properties, Inc.	4								1.5
Project No.	75-03092.00									
	Industrial Properties, Inc. 2450 Sixth Avenue South Seattle, Washinton 98134	6								1.9
	Scattic, Washinton 98134	8				SILT with sand and gravel	Gray	Dry		
Clayton geologist Driller	Greg Ferris					Soil sample 010603-S6 collected from 9-12' bgs				88.5
Start date Final date	1/6/2003 1/6/2003	10				SAND (coarse) with gravel	Gray	Moist		
Auger OD Sampler	Limited Access Geoprobe 2 inches Split Spoon	12				Groundwater encountered ~ 12' bgs Groundwater sample 010603-GW6				49.2
Elevation Datum ound surface	feet	14				collected Boring Terminated 13' bgs				
onitoring Wea										
OC elevation Grout interval	feet BGS feet BGS	16								
ntonite plug Filter pack interval	feet thick feet BGS feet BGS	18								
reen length Slot size reen bottom	feet inches feet BGS									
ont method ck material nut material		20								
evelopment ell lock No.		22								
oundwater Static level Elevation	Date 1 feet below TOC feet	24			,					
me purged onductivity imperature	gallons µmhos °F			1						
pН	Date 2	26								
Matic level Elevation ne purged	feet below TOC feet gallons	28								
mductivity mperature pH	°F µmhos			.	.					•
	Clayton	30								

	Clayton Bo	ring	L_		B	9				
Final deptl	12 feet BGS		R	Soit	N	Soil Type	Calor	Soil Moisture	Comment	PID ppm
Page					+	0-6" Concrete				ļ
Boring location			-			CLAY with silt and gravel	Tan	Moist		0.6
	L	2	1	ĺ						
Client	Industrial Properties, Inc.	- -	1							0.6
		4	1							
Project No.	75-03092.00									
· Site	Industrial Properties, Inc. 2450 Sixth Avenue South	6				•				0.7
	Seattle, Washinton 98134				S	SILT with sand and gravel	Tan	Moist		
Ol- ·	Com Rowin	_ 8			C	Groundwater encountered ~ 9' bgs				
Clayton geologist Driller	Greg Ferris				6	oil sample 010703-S1 collected from				0.5
Dritter Start date Final date	1/7/2003	10				CLAY with silt	Gray	Wet		
	Limited Access Geoprobe 2 inches	12			-	AND (coarse) with gravel groundwater sample 010703-GWI	Black	Wet		
	Split Spoon	- ''			c	ollected Foring Terminated 12' bgs			·	
Datum round surface	feet	14				oring rominated 12 bgs				
Junitoring We		_								
OC elevation	feet	-								
Grout	feet BGS	16		ł				l	i	
interval	feet BGS									
entonite plug	feet thick			ľ			ļ			
Filter pack	feet BGS									
interval	feet BGS	81								
Screen length	feet	TL I			- 1					
Slot size	inches						l l			
creen bottom	feet BGS	71 [- 1			1			
Front method		20								
Pack material			- 1		- 1					
rout material			- 1		Ι.		1			
Development		71 1					l			
Well lock No.		22								
	<u> </u>	7	1		1					
Groundwater	Date 1									
Static level	feet below TOC	71 (
Elevation	feet	24								ľ
hime purged	gallons							ļ		ł
1	μmhos	$\parallel \dashv$								l
с опансичну і	°F							ł	ļ	ì
- 1	-	26						l		
Temperature	Date 2	- 20						l	1	J
- 1								ļ		
Temperature pH				-						-
Temperature pH Static level	feet below TOC			1	- 1				ļ	
Temperature pH Static level Elevation	feet below TOC feet				- 1					
Temperature pH Static level Elevation lume purged	feet below TOC feet gallons	28							l	
Temperature pH Static level Elevation dume purged Conductivity	feet below TOC feet gallons μπhos	28						.]		
Temperature pH Static level Elevation dume purged Conductivity	feet below TOC feet gallons	28								
Static level Elevation hume purged Conductivity	feet below TOC feet gallons µmhos °F									
Static level Elevation dume purged Conductivity Temperature	feet below TOC feet gallons μπhos	30				,				

	Clayton Bo	rıng	L		В	20				
Final depth	12 feet BGS	n	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID ppm
Page] 0	\vdash		-	0-6" Concrete	_			-
Boring location	18' north of B5	-	-			CLAY with silt and gravel	Tan	Moist		0.8
ижаны		1								
Climot	Industrial Properties, Inc.	_ 2 - -								
Chem	moustrar i roperties, mc.									0.7
		_ 4								
Project No.	75-03092.00	4								
Site	Industrial Properties, Inc.	6	1				-		•	0.8
	2450 Sixth Avenue South		1 1							"
	Seattle, Washinton 98134									
						CLAY with silt	Gray	Wet		}
Claure	Gran Formic	-				Groundwater encountered ~ 8' bgs				
Clayton geologist	Greg Ferris					Soil sample 010703-S2 collected from 6-9' bgs				0.8
Driller		10				SAND (coarse) with gravel	Black	Wet		
Start date										
	1/7/2003 Limited Access Geoprobe					Groundwater sample 010703-GW2				1
Auger OD	2 inches	12				collected Boring Terminated 12' bgs		1		
	Split Spoon	'-				Boring reminated 12 bgs				
Elevation		┰	1					:		
Datum Datum	G.,,									
nınd surface	feet	- 14						ĺ		
unitoring We	<u> </u>	╗								
OC elevation	feet	1 .								
Grout	feet BGS	16								
interval	feet BGS	╢]		-
ntonite plug Filter pack	feet thick feet BGS	-						ĺ		
interval	feet BGS	18		ļ						
creen length	feet									
Slot size	inches	4								
reen hattom rout method	feet BGS	20								
ack material		["								!
out material		╜								
Development										
rell lock No.	<u> </u>] 22								
roundwater	Date 1									
Static level	feet below TOC									
Elevation ume purged	feet	24		1						
ume purgea Conductivity	gallons µmhos	\parallel							1	
emperature	°F									
ρН		26	-	}						
	Date 2	\parallel		İ						
Static level Elevation	feet below TOC									
nsevation ume purged	feet gallons	28								
Conductivity	μmhos .									
emperature	°F			l		•				
рН		30			ł					
		1 30 1	- 1		- 1					
	Clayton	"	- 1]			

	Clayton Bo	rıng	L		В	<u> </u>				
Final depth	12 feet BGS	ft	R	Soil	N	Soil Type	Color	Soil Moisture	Comment	PID
Page	1 of 1	_	\vdash		_	0-6" Concrete				<u> </u>
	12' west of B3					CLAY with silt and gravel	Tan	Dry		0.7
an.		_ 2								
Client	Industrial Properties, Inc.					CLAY with silt	Gray	Moist	·	0.6
		- 4								
Project No.	75-03092.00						-			
	<u> </u>									
Site	Industrial Properties, Inc. 2450 Sixth Avenue South	6				Soil sample 010703-S3 collected from		'		0.8
	Seattle, Washinton 98134					6-9' bgs Groundwater encountered ~ 7' bgs Groundwater sample 010703-GW3				
		_ 8				collected				
	Greg Ferris	$\neg \vdash \vdash$				SAND (coarse) with gravel	Black	Wet		0.8
geologist	PON	4						ļ		
Driller Start date		10								
		\parallel					1			
	Limited Access Geoprobe									
Auger OD	2 inches	12				Boring Terminated 12' bgs	- [
Sampler	Split Spoon			i		0	ĺ			[
Elevation										
Datum		4								
round surface	feet									
Monitoring Wes	<u> </u>	$\neg \vdash \vdash$								
TOC elevation	feet	-	- [
Gront	feet BGS	16	- 1							
interval	feet BGS	'``								
Bentonite plug	feet thick									
Filter pack	feet BGS	\Box								
interval	feet BGS	18								
Screen length	feet	\parallel								
Slot size	inches feet BGS	-		ļ	J					
Grow method	ieei BUS	20	1							
Pack material		20					1			
irout material										
Development		ן∐ן	- [
Well lock No.		22						[
Groundwata	Day I	¬ —								
Groundwater Static level	Date 1 feet below TOC	-								
Elevation	feet below IOC	24					1			
olume purged	gallons	-	- 1		-			[
Conductivity	μmhos									
Temperature	°F			ļ						
pН		26		ľ						
Control	Date 2	41								
Static level	feet below TOC									
Elevation June purged	feet	20								
Conductivity	gallons μπhos	28			Ì					1
	. μπιιος °F									
Temperature	-	11								
Temperature pH			- 1		- 1			1	I	Į.
	<u> </u>	30								
	Clayton	30								

	Clayton Bo	ring	L		В	22				
Final depth	12 feet BGS	n	R	Soil	N	Soil Type	Color	Soil Maisture	Comment	PID ppm
Page	I of I	7	┼┤	_	+	0-6" Concrete		┼		<u> </u>
Boring location	13' south and 5' west of B3					SILT with sand and gravel	Tan	Dry		0.4
		_ 2								
Client	Industrial Properties, Inc.									0.5
	75 02002 00	4				CLAY with silt	Gray	Moist		
Project No.	75-03092.00	-								
Site	Industrial Properties, Inc. 2450 Sixth Avenue South	6				SILT with sand	Gray	Moist		40.7
	Seattle, Washinton 98134					Soil sample 010703-S4 collected from 6-9' bgs				
		8				Petroleum odor observed ~8' bgs Groundwater encountered ~ 8' bgs			Petrol Odor	
Clayton geologist	Greg Ferris					Groundwater sample 010703-GW4 collected				21.2
Driller Start date		10				SAND (coarse) with gravel	Black	Wet		
Final date	1/7/2003									
Method Auger (11)	Limited Access Geoprobe 2 inches	12				Boring Terminated 12' bgs				
Sampler	Split Spoon	_				Doring Tollimated 12 ogs				
Elevation Datum										
ound surface	feet	14								
onitoring We		$\neg \vdash \vdash$								
C elevation	feet								1	
Grout interval	feet BGS feet BGS	16								
entonite plug	feet thick									
Filter pack interval	feet BGS feet BGS	18								ŀ
creen length	feet	$\exists \sqcup$								
Slot size creen hottom	inches feet BGS	-	Ì					l		
rout method		20								
ack material out material		\parallel								
Development Vell lock No.										
		_ 22								
Foundwater Static level	Date 1 feet below TOC	$\exists \Box$								
Elevation	feet	24								
hime purged	gallons									
Conductivity Comperature	μπhos °F									
pH		26								
Static level	Date 2 feet below TOC	╢┦								-
Elevation	feet				-					
nine purged	gallons	28		Ì						
onductivity emperature	μmhos °F	$\parallel \rightarrow \parallel$	$\cdot $			•				
рН	r			ŀ				i		-
	Clayton	30						,		- 1
	GROUP SERVICES	\vdash							ĺ	1

	Clayton Bo	ring		B	23				
Final depth	8 feet BGS	n	R So	oil N	Soil Type	Color	Soil Moisture	Comment	PID
Page Boring location	1 of 1 6' east of B1	0			0-6" Concrete SAND (line) with silt	Brown	Dry		0.4
Client	Industrial Properties, Inc.	2			SILT with sand	Gray	Dry		2.8
Project No.	75-03092.00	4							
	Industrial Properties, Inc. 2450 Sixth Avenue South Scattle, Washinton 98134	8			Soil sample 010703-S5 collected from 6-9' bgs Groundwater encountered ~ 7' bgs Groundwater sample 010703-GW5 collected		Wet	Petrol Odor	46.2
geologist	Greg Ferris				Boring Terminated 8' bgs				
Driller Start date Final date Method	1/7/2003	10							
Auger OD	2 inches Split Spoon	12			Boring Terminated 12' bgs				
Datum ound surface	feet	14							
lonitoring Wei									
OC elevation Grant interval	feet BGS feet BGS	16							
Fitter pack interval	feet thick feet BGS feet BGS	18							
Stot size Slot size creen bottom	feet inches feet BGS								
irout method ack material rout material		20							
Development Vell lock No.		22							
Static level Elevation	Date I feet below TOC feet	24							
hime purged Conductivity Temperature	gallons μπhos °F								
Static level	Date 2 feet below TOC	26							,
Elevation lume purged ' Conductivity Temperature	fect gallons µmhos °F	28							
рН	Clayton	30							

	Clayton Bo	ring]	B 2	<u>4</u>	_}			
Final depth	12 feet BGS	ft	RS	oil	N	Soil Type	Color	Soil Moisture	Comment	P1D ppm
Page Boring location	1 of 1 10' southwest of B22	0				0-6" Concrete SILT with sand and gravel	Tan	Dry		0.8
		2								
Client	Industrial Properties, Inc.	4				CLAY with silt	Gray	Moist		0.8
Project No.	75-03092.00						0,	Motor		
Site	Industrial Properties, Inc. 2450 Sixth Avenue South	6				SILT with sand	Gray	Moist		1.0
	Seattle, Washinton 98134	8			6	oil sample 010703-S6 collected from -9' bgs Groundwater encountered ~ 7' bgs		Wet		
	Greg Ferris				- (0	Groundwater sample 010703-GW6 ollected				1.0
geologist Driller Start date	1/7/2003	10			s	AND (coarse) with gravel	Black	Wei		
Final date Method Auger (11)	1/7/2003 Limited Access Geoprobe 2 inches	12			F	foring Terminated 12' bgs				
Sampler Elevation	Split Spoon					ornig Ferninace 12 ogs				
Datum round surface	feet	14								
OC elevation	feet									
Grout interval entonite plug	feet BGS feet BGS feet thick	16								
Filter pack interval Screen length	feet BGS feet BGS feet	18								
Stot size creen hottom	inches feet BGS									
irout method Pack material rout material		20								
Development Yell lock No.		22								
Static level	Date 1 feet below TOC									
Elevation hume purged Conductivity	feet gallons µmhos	24								
emperature pH	°F	26								
Static level Elevation	feet below TOC feet									
nne purged `onductivity iemperature	gallons . μπhos °F	28								
pH	Clayton	30								
(L	GROUP SERVICES	H								



APPENDIX C

CORRESPONDENCE

4636 E. Marginal Way S. Suite 215 Seattle, WA 98134 206.763.7364 Fax 206.763.4189



MEMORANDUM

To:

File (75-03092.00)

From:

Greg Ferris

Subject:

INDUSTRIAL PROPERTIES - ECOLOGY 20 DAY REPORT

Date:

December 17, 2002

On December 17, 2002, I spoke with Mr. John Bails at Ecology regarding the actions being taken at the subject property (2450 Sixth Avenue South, Seattle, Washington) to mitigate the petroleum releases detected at the site during the November 26, 2002 subsurface investigation around three heating fuel underground storage tanks (USTs).

Mr. Bails was informed that the fuel remaining in the USTs had been removed and that the owner was currently planning to perform a more in depth release investigation during January 2003 to delineate soil and groundwater impacts from the UST releases.

This report given to Mr. Bails of the status of activities at the subject property serves as the Ecology 20 Day Report as required in WAC 173-340-450.

4636 E. Marginal Way S. Suite 215 Seattle, WA 98134 206.763.7364 Fax 206.763.4189



MEMORANDUM

To:

File (75-03092.00)

From:

Greg Ferris

Subject:

INDUSTRIAL PROPERTIES – ECOLOGY 24 HOUR REPORT

Date:

November 27, 2002

On November 27, 2002, I spoke with Ms. Nida Rodriguez at Ecology regarding the preliminary findings of the November 26 underground storage tank (UST) subsurface investigation activities at Industrial Properties, Inc., 2450 Sixth Avenue South, Seattle, Washington.

Ms. Rodriguez was informed that on November 26, 2002, petroleum releases to soil and groundwater were detected in the vicinity of three USTs at the site (UST-1, UST-2 and UST-3) during the drilling of borings to collect soil and groundwater samples, and that free product was detected in the boring drilled just north of UST-1.

Ms. Rodriguez was also informed that the owner was planning to remove the remaining fuel in the three USTs to mitigate any future potential releases from occurring at the site.

Ms. Rodriguez assigned an Ecology Emergency Response Tracking System # (ERTS# 530490) to the site.

This report of the preliminary findings of the subsurface investigation activities at the subject property given to Ms. Rodriguez serves as the Ecology 24 Hour Report as required in WAC 173-340-300(2)(a).

4636 E. Marginal Way S. Suite 215 Seattle, WA 98134 206.763.7364 Fax 206.763.4189



FAX COVER

To:

John Houlihan

From:

Greg Ferris

Company:

Short Cressman & Burgess

Date:

December 16, 2002

Fax No.:

206.340.8856

Project No.:

Industrial Properties

No. of Pages (including cover): 1

Please confirm receipt:

YES

X NO

Subject: Industrial Properties - 2450 6th Avenue South, Seattle, WA

Between December 4-7, 2002, Clayton supervised the removal of approximately 1,200 gallons of fuel from the three heating fuel underground storage tanks (USTs) at the Industrial Properties Transfer Warehouse located 2450 Sixth Avenue South, Seattle, Washington.

Specifically, the total volume of fuel removed from each UST was:

UST-1 ~750 gallons removed Dec. 6 & 7 (former Far West Taxi office)

UST-2 ~200 gallons removed Dec. 5 (hallway east of former Far West office)

UST-3 ~250 gallons removed Dec. 4 (R.H. Smith Garage at NW corner of property)

Greg Ferris



PICKERING BROTHERS COMPANY

Invoice # 1202-02

Friday, December 13, 2002

Greg Ferris Clayton Group Services 4636 E MARGINAL WAY SOUTH SUITE B-215 Seattle, WA 98134

Dear Greg:

Please find an invoice for services provided at 6th and Lander.

Pakering

75-03092.00

Tank pumping.

Fuel Removal and disposal or recycling.

\$750.00

Total for this invoice.

\$750.004

Thank you for your business.

- Stillow

Sincerely,

DARREN PICKERING



APPENDIX D LABORATORY ANALYTICAL REPORTS

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/02 Date Received: 11/27/02 Project: 75-03092.00 Date Extracted: 12/04/02

Date Analyzed: 12/04/02 and 12/06/02

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as µg/g (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (<u>% Recovery</u>) (Limit 76-129)
112602-S2 d 211199-02	0.04	0.03	0.93	0.94	260	ip
112602-S5 $211199-06$	< 0.02	< 0.02	0.04	< 0.02	51	96
112602-S9 211199-11	< 0.02	<0.02	<0.02	0.05	11	101
Method Blank	<0.02	< 0.02	<0.02	<0.02	<1	86

d - The sample was diluted for gasoline.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/02 Date Received: 11/27/02 Project: 75-03092.00 Date Extracted: 12/02/02 Date Analyzed: 12/02/02

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL USING METHOD NWTPH-Dx

Extended to Include Motor Oil Range Compounds

Results Reported on a Dry Weight Basis Results Reported as µg/g (ppm)

		Surrogate	
Sample ID Laboratory ID	$rac{ ext{Diesel Exten}}{ ext{(C}_{10} ext{-C}_{36})}$	ded (% Recovery (Limit 45-153)	
112602-S1 d 211199-01	21,000	83	
112602-S2 d 211199-02	18,000	81	
112602-S3 211199-03	1,600	91	
112602-S4 d 211199-04	12,000	129	
112602-S5 211199-06	4,200	120	
112602-S6 211199-07	<50	87	
112602 - S7 $211199 - 08$	990	106	
112602-S8 ²¹¹¹⁹⁹⁻⁰⁹	<50	84	
112602-S9 ²¹¹¹⁹⁹⁻¹¹	1,200	105	
$112602\text{-}S10 \\ {}_{211199\text{-}12}$	<50	86	
112602 - S11 $211199 - 13$	110	90	
112602-S12 211199-14	<50	90	
Method Blank	<50	88	

d - The sample was diluted.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/02 Date Received: 11/27/02 Project: 75-03092.00 Date Extracted: 12/02/02 Date Analyzed: 12/03/02

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL USING METHOD NWTPH-Dx

Extended to Include Motor Oil Range Compounds

Results Reported as µg/L (ppb)

Sample ID Laboratory ID	<u>Diesel Extended</u> (C ₁₀ -C ₃₆)	Surrogate (% Recovery) (Limit 45-147)
112602-GW1 d 211199-05	490,000	ip
112602-GW3 211199-15	4,500	105
Method Blank	<250	101

d - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: 112602-S2
Date Received: 11/27/02
Date Extracted: 12/03/02
Date Analyzed: 12/04/02
Matrix: Soil
Units: ug/kg (ppb)

 Client:
 Clayton Group Services, Inc.

 Project:
 75-03092.00

 Lab ID:
 211199-02 1/100

 Data File:
 120410.D

Instrument: GCMS3
Operator: YA

_		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	87	43	109
Benzo(a)anthracene-d12	67	65	134

Compounds:	Concentration ug/kg (ppb)
Naphthalene	12,000
Acenaphthylene	<500
Acenaphthene	1,500
Fluorene	3,500
Phenanthrene	7,300
Anthracene	<500
Fluoranthene	< 500
Pyrene	540
Benz(a)anthracene	< 500
Chrysene	< 500
Benzo(b)fluoranthene	< 500
Benzo(k)fluoranthene	< 500
Benzo(a)pyrene	< 500
Indeno(1,2,3-cd)pyrene	< 500
Dibenzo(a,h)anthracene	< 500
Benzo(g,h,i)perylene	< 500

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Clayton Group Services, Inc. Client: 112602-S5 75-03092.00 Client Sample ID: Project: 11/27/02 211199-06 Date Received: Lab 1D: 12/03/02 120413.D Date Extracted: Data File: 12/04/02 GCMS3 Date Analyzed: Instrument: Soil YA Matrix: Operator: ug/kg (ppb) Units:

Surrogates: Anthracene-d10 Benzo(a)anthracen	ne-d12	% Recovery 46 75	Lower Limit 43 65	Upper Limit 109 134
13011210 ()				

Concentration: ug/kg (ppb) Compounds: 120 Naphthalene 22Acenaphthylene 190 Acenaphthene 290 Fluorene 1,300 ve Phenanthrene <5 Anthracene 44 Fluoranthene 270 Pyrene <5 Benz(a)anthracene 9 Chrysene <5 Benzo(b)fluoranthene <5 Benzo(k)fluoranthene <5 Benzo(a)pyrene <5 Indeno(1,2,3-cd)pyrene <5 Dibenzo(a,h)anthracene <5 Benzo(g,h,i)perylene

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: 112602-S5Client: Clayton Group Services, Inc. Date Received: 11/27/02 Project: 75-03092.00 Date Extracted: 12/03/02 Lab ID: 211199-06 1/10 Date Analyzed: 12/04/02 Data File: 120419.D Matrix: Soil Instrument: GCMS3 Units: ug/kg (ppb) Operator: YA

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	64	44	113
Benzo(a)anthracene-d12	83	65	134

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	120
Acenaphthylene	< 50
Acenaphthene	220
Fluorene	570
Phenanthrene	1,500
Anthracene	<50
Fluoranthene	51
Pyrene	210
Benz(a)anthracene	< 50
Chrysene	< 50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	< 50
Benzo(a)pyrene	< 50
Indeno(1,2,3-cd)pyrene	< 50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: 112602-S9 Client: Clayton Group Services, Inc. Date Received: 11/27/02 Project: 75-03092.00 Date Extracted: 12/03/02 Lab ID: 211199-11 Date Analyzed: 12/04/02 Data File: 120414.DMatrix: Soil Instrument: GCMS3 Units: ug/kg (ppb) Operator: YA

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	55	44	113
Benzo(a)anthracene-d12	77	65	134

Compounds:	Concentration: ug/kg (ppb).
Naphthalene	68
Acenaphthylene	23
Acenaphthene	140
Fluorene	240
Phenanthrene	630 ve
Anthracene	34
Fluoranthene	19
Pyrene	85
Benz(a)anthracene	<5
Chrysene	7
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method $8270\mathrm{C}\ \mathrm{SIM}$

Client Sample ID:	112602-S9	Client:	Clayton Group Services, Inc.
Date Received:	11/27/02	Project:	75-03092.00
Date Extracted:	12/03/02	Lab ID:	211199-11 1/10
Date Analyzed:	12/04/02	Data File:	120420.D
Matrix:	Soil	Instrument:	GCMS3
Units:	ug/kg (ppb)	Operator:	YA

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	76	44	113
Benzo(a)anthracene-d12	76	65	134

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	140
Fluorene	310
Phenanthrene	750
Anthracene	< 50
Fluoranthene	< 50
Pyrene	80
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	< 50
Benzo(a)pyrene	< 50
Indeno(1,2,3-cd)pyrene	< 50
Dibenzo(a,h)anthracene	< 50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample (D: Method Blank Clayton Group Services, Inc. Client: Date Received: 11/27/02 Project: 75-03092.00 Date Extracted: 12/03/02 Lab ID: 02-919 mb Date Analyzed: 12/03/02 Data File: 120309.D Matrix: Soil Instrument: GCMS3 Units: ug/kg (ppb) Operator: YA

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	94	43	109
Benzo(a)anthracene-d12	79	65	134

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/02 Date Received: 11/27/02 Project: 75-03092.00

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 211199-11 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Benzene	μg/g (ppm)	0.5	< 0.02	106	106	60-131	0
Toluene	μg/g (ppm)	0.5	< 0.02	110	110	68-129	0
Ethylbenzene	μg/g (ppm)	0.5	< 0.02	113	114	69-131	1
Xylenes	μg/g (ppm)	1.5	0.05	135	136	69-137	1

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	m RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	μg/g (ppm)	0.5	92	90	68-116	2
Toluene	μg/g (ppm)	0.5	92	90	75-114	2
Ethylbenzene	μg/g (ppm)	0.5	95	92	79-114	3
Xylenes	μg/g (ppm)	1.5	111	108	76-122	3
Gasoline	μg/g (ppm)	20	91	90	51-141	1

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/02 Date Received: 11/27/02 Project: 75-03092.00

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 211199-12 (Duplicate)

				Relative Percent
•	Reporting	Sample	Duplicate	Difference
Analyte	Units	Result	Result	(Limit 20)
Diesel Extended	μg/g (ppm)	<50	<50	nm .

Laboratory Code: 211199-12 (Matrix Spike)

				Percent		
	Reporting	Spike	Sample	Recovery	Acceptance	
Analyte	Units	Level	Result	MS	Criteria	
Diesel Extended	μg/g (ppm)	500	< 50	108	62-142	•

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
<u>Analyte</u>	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	μg/g (ppm)	500	108	114	66-132	5

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/02 Date Received: 11/27/02 Project: 75-03092.00

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

	75	~	Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	μg/L (ppb)	5,000	109	110	71-128	1

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/02 Date Received: 11/27/02 Project: 75-03092.00

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270C SIM

Laboratory Code: 211199-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Naphthalene	μg/kg (ppb)	12,000	15,000	15
Acenaphthylene	μg/kg (ppb)	<500	< 500	nm
Acenaphthene	μg/kg (ppb)	1,500	1,900	24 h
Fluorene	μg/kg (ppb)	3,500	4,100	16
Phenanthrene	μg/kg (ppb)	7,300	8,700	18
Anthracene	μg/kg (ppb)	< 500	< 500	nm
Fluoranthene	μg/kg (ppb)	< 500	< 500	nm
Pyrene	μg/kg (ppb)	540	650	18
Benz(a)anthracene	μg/kg (ppb)	< 500	< 500	nm
Chrysene	μg/kg (ppb)	< 500	< 500	nm
Benzo(b)fluoranthene	μg/kg (ppb)	< 500	< 500	nm
Benzo(k)fluoranthene	μg/kg (ppb)	< 500	< 500	nm
Benzo(a)pyrene	μg/kg (ppb)	< 500	< 500	nm
Indeno(1,2,3-cd)pyrene	μg/kg (ppb)	< 500	< 500	nm
Dibenzo(a,h)anthracene	μg/kg (ppb)	< 500	< 500	nm
Benzo(g,h,i)perylene	μg/kg (ppb)	<500	< 500	nm

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Naphthalene	μg/kg (ppb)	170	82	87	58-121	6
Acenaphthylene	μg/kg (ppb)	170	90	95	54 - 122	5
Acenaphthene	μg/kg (ppb)	170	82	86	58-119	5
Fluorene	μg/kg (ppb)	170	84	88	57-122	5
Phenanthrene	μg/kg (ppb)	170	79	83	57-123	5
Anthracene	μg/kg (ppb)	170	98	103	44-125	5
Fluoranthene	μg/kg (ppb)	170	98	102	54 - 127	4
Pyrene	μg/kg (ppb)	170	96	100	56-123	4
Benz(a)anthracene	μg/kg (ppb)	170	77	79	50-124	3
Chrysene	μg/kg (ppb)	170	79	81	51-122	3
Benzo(b)fluoranthene	μg/kg (ppb)	170	87	93	44-149	6
Benzo(k)fluoranthene	μg/kg (ppb)	170	87	92	52-140	6
Benzo(a)pyrene	μg/kg (ppb)	170	85	88	42-129	4
Indeno(1,2,3-cd)pyrene	μg/kg (ppb)	170	64	67	48-134	4
Dibenzo(a,h)anthracene	μg/kg (ppb)	170	66	69	49-136	4
Benzo(g,h,i)perylene	μg/kg (ppb)	170	58	60 .	46-134	3 .

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

h - RPD results are likely outside control limits due to sample inhomogeneity.

EY	11/27/02	BOZ
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Send Report To GREG FETERIS	SAMPLERS (signature)	0	Page #
Company Clayton Group Services, Inc.	PROJECT NAME/NO.	PO#	TURNAROUND TIME **Standard (2 Weeks)
Address 4636 E. Marginal Way S., Ste 215	75-03092.00		Rush charges authorized by:
City, State, ZIP Seattle, WA 98134	REMARKS	<u> </u>	SAMPLE DISPOSAL
Phone #_(206) 763-7364	PLEASE FOX PESUL	TS	Dispose after 30 days Return samples Will call with instructions
	11 200		

							11 200	T				ANT	1137	200	1200		-				istructions
Sample ID	Lah ID	D	ate	Time	Sam	ple Type	# of containers	TPH-Diesel	TPH-Cinsoline	BTEX by 8021B	VOC ₈ by 8260	8270	HFS.	-	REQ	OES.	red				Notes
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, W.A 98119-2029 -

Ph. (206) 285-8282

Fax (206) 283-5044

	~		7 11000	1 10005
SIGNATURE Relinguished by:	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	GREG FERRIS	CLAYTON	11.27.02	1225
Relinghished by:	Laura Hooper	FBI.		J,
Received by:	/			

EY 11/27/02 BOZ

Send Report To GREG FETCES	SAMPLERS (signature) Gues (Em	Page # of
Company Clayton Group Services, Inc.	PROJECT NAME/NO.	PO#	Standard (2 Weeks)
Address 4636 E. Marginal Way S., Ste 215	75-03092.00		Rush charges authorized by:
City, State, ZIP Seattle, WA 98134	REMARKS		SAMPLE DISPOSAL Dispose after 30 days
Phone #_(206) 763-7364 Fax #_(206) 763-4189	PLEASE FAX IZESU	LTS	D Return samples Will call with instructions

	 -	 		···						AN.	LYS	SES I	EQ i	JEST	ΈD	_	 <u> </u>
Sample ID	Lab ID 	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEN by 8021B	VOCs by 8260								Notes
112602-59	1	11-26-02	1340	SOIL		V	V	V				\checkmark	_				
SIO	12		1450			√											
511	13)	1520			✓							-				
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, N.A 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	GREG FERRIS	CLAYTON	11-27-02	
Received by:	Lawra Hooper	FBI.	1//	J
Received by:	,			

ENVIRONMENTAL CHEMISTS

Date of Report: 01/22/03 Date Received: 01/07/03

Project: 75-03092.00, F&BI 301035

Date Extracted: 01/09/03 Date Analyzed: 01/09/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Results Reported as µg/L (ppb)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 79-132)
010603-GW2 d 301035-04	6	<5	<5	8	1,800	99
010703-GW1 301035-14	<1	<1	<1	<1	<50	94
010703-GW4 d 301035-20	<5	<5	11	11	750	95
Method Blank	<1	<1	<1	<1	<50	96

d - The sample was diluted due to matrix effect (foamy). Detection limits are raised due to dilution.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/22/03 Date Received: 01/07/03

Project: 75-03092.00, F&BI 301035

Date Extracted: 01/08/03

Date Analyzed: 01/09/03 and 01/10/03

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL USING METHOD NWTPH-Dx

Extended to Include Motor Oil Range Compounds

Results Reported on a Dry Weight Basis Results Reported as µg/g (ppm)

Sample ID Laboratory ID	<u>Diesel Extended</u> (C ₁₀ -C ₃₆)	Surrogate (% Recovery) (Limit 45-153)
010603-S1 ³⁰¹⁰³⁵⁻⁰¹	<50	82
010603-S2 ³⁰¹⁰³⁵⁻⁰³	2,700	90
010603-S3 301035-05	<50	75
010603-S4 ³⁰¹⁰³⁵⁻⁰⁷	<50	77
$\begin{array}{c} {\bf 010603\text{-}S5~d} \\ {\bf 301035\text{-}09} \end{array}$	20,000	135
010603-S6 301035-11	3,800	145
010703-S1 301035-13	<50	80
010703-S2 ³⁰¹⁰³⁵⁻¹⁵	<50	80
010703-S3 ³⁰¹⁰³⁵⁻¹⁷	<50	78
010703-S4 ³⁰¹⁰³⁵⁻¹⁹	2,000	85
010703-S5 ³⁰¹⁰³⁵⁻²¹	710	79
010703-S6 301035-23	<50	68
Method Blank	<50	71

d - The sample was diluted

ENVIRONMENTAL CHEMISTS

Date of Report: 01/22/03 Date Received: 01/07/03

Project: 75-03092.00, F&BI 301035

Date Extracted: 01/09/03 Date Analyzed: 01/10/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL USING METHOD NWTPH-Dx

Extended to Include Motor Oil Range Compounds

Results Reported as µg/L (ppb)

Sample ID Laboratory ID	<u>Diesel Extended</u> (C ₁₀ -C ₃₆)	Surrogate (% Recovery) (Limit 45-147)
010603-GW1 ³⁰¹⁰³⁵⁻⁰²	22,000	110
010603-GW2 d 301035-04	220,000	104
010603-GW3	2,500	84
010603-GW4 ³⁰¹⁰³⁵⁻⁰⁸	3,100	95
010603-GW5 d 301035-10	65,000	69
$010603\text{-}\mathrm{GW6}\;\mathrm{d}_{301035\text{-}12}$	170,000	ip
010703-GW1 ³⁰¹⁰³⁵⁻¹⁴	<250	62
010703-GW2 ³⁰¹⁰³⁵⁻¹⁶	<250	85
010703-GW3 ³⁰¹⁰³⁵⁻¹⁸	<250	72
$010703\text{-}\mathrm{GW4}~\mathrm{d}$ $_{301035\text{-}20}$	170,000	116
010703-GW5 ³⁰¹⁰³⁵⁻²²	330	82
010703-GW6 ³⁰¹⁰³⁵⁻²⁴	1,800	94
Method Blank	<250	92

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

d - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: 010603-GW2
Date Received: 01/07/03
Date Extracted: 01/09/03
Date Analyzed: 01/17/03
Matrix: Water
Units: ug/L (ppb)

Client: Clayton Group Services, Inc. Project: 75-03092.00, F&BI 301035 Lab ID: 301035-04 1/10 sg

Data File: 011725.D Instrument: GCMS3 Operator: YA

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	133 vo	32	121
Benzo(a)anthracene-d12	100	43	125

Compounds:	Concentration: ug/L (pph)
Naphthalene	21 fbs
Acenaphthylene	<1.0
Acenaphthene	46
Fluorene	140
Phenanthrene	220
Anthracene	<1.0
Fluoranthene	5.0
Pyrene	23
Benz(a)anthracene	3.0
Chrysene	5.0
Benzo(b)fluoranthene	<1.0
Benzo(k)fluoranthene	<1.0
Benzo(a)pyrene	<1.0
Indeno(1,2,3-cd)pyrene	<1.0
Dibenzo(a,h)anthracene	<1.0
Benzo(g,h,i)perylene	<1.0

vo - The value reported fell outside the control limits established for this analyte.

fbs - The analyte indicated was found in the blank. A small percentage of the material present may be due to laboratory contamination.

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

ENVIRONMENTAL CHEMISTS

Client Sample ID:	010703-GW1	Client:	Clayton Group Services, Inc.
Date Received:	01/07/03	Project:	75-03092.00, F&BI 301035
Date Extracted:	01/09/03	Lab ID:	301035-14
Date Analyzed:	01/11/03	Data File:	011034.D
Matrix:	Water	Instrument:	GCMS3
Units:	ug/L (ppb)	Operator:	YA

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	86	32	121
Benzo(a)anthracene-d12	69	43	125

Concentration . ug/L (ppb)
< 0.1
<0.1
< 0.1
< 0.1
0.3
<0.1
<0.1
< 0.1
< 0.1
<0.1
< 0.1
<0.1
< 0.1
<0.1
<0.1
<0.1

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: 010703-GW4 Client: Clayton Group Services, Inc. Date Received: 01/07/03 Project: 75-03092.00, F&BI 301035 Date Extracted: 01/09/03 Lab ID: 301035-20 1/10 sg Date Analyzed: 01/18/03 Data File: 011726.D Matrix: Water Instrument: GCMS3 Units: ug/L (ppb) Operator: YA

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	92	32	121
Benzo(a)anthracene-d12	105	43	125

Compounds:	Concentration: ug/L (ppb)
Naphthalene	23 fbs
Acenaphthylene	<1.0
Acenaphthene	32
Fluorene	88
Phenanthrene	120
Anthracene	<1.0
Fluoranthene	8.0
Pyrene	11
Benz(a)anthracene	1.0
Chrysene	2.0
Benzo(b)fluoranthene	<1.0
Benzo(k)fluoranthene	<1.0
Benzo(a)pyrene	<1.0
Indeno(1,2,3-cd)pyrene	<1.0
Dibenzo(a,h)anthracene	<1.0
Benzo(g,h,i)perylene	<1.0

fbs - The analyte indicated was found in the blank. A small percentage of the material present may be due to laboratory contamination.

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

ENVIRONMENTAL CHEMISTS

Clayton Group Services, Inc. 75-03092.00, F&BI 301035

03-121 mb 011016.D GCMS3 YA

Client Sample ID:	Method Blank	Client:
Date Received:	Not Applicable	Project:
Date Extracted:	01/09/03	Lab ID:
Date Analyzed:	01/10/03	Data File:
Matrix:	Water	Instrument:
Units:	ug/L (pph)	Operator:
	_	-

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	87	32	121
Benzo(a)anthracene-d12	130	43	125

	- * *
Compounds:	Concentration: ug/L (ppb)
Naphthalene	0.8
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	< 0.1
Anthracene	< 0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	< 0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	< 0.1
Benzo(a)pyrene	<0.1
Indeno(1,2,3-cd)pyrene	< 0.1
Dibenzo(a,h)anthracene	<0.1
Benzo(g.h.i)nervlene	<0.1

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix:	Not Applicable 01/13/03 01/17/03 Water	Client: Project: Lab ID: Data File: Instrument:	Clayton Group Services, Inc. 75-03092.00, F&BI 301035 mb 03-121 rx 011723.D GCMS3
Units:	ug/L (ppb)	Operator:	YA

		Lower	Upper
Surrogates:	% Recovery	\mathbf{Limit}	Limit
Anthracene-d10	93	32	121
Benzo(a)anthracene-d12	100	43	125

Compounds:	Concentration: ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	< 0.1
Acenaphthene	<0.1
Fluorene	< 0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	< 0.1
Chrysene	< 0.1
Benzo(b)fluoranthene	< 0.1
Benzo(k)fluoranthene	< 0.1
Benzo(a)pyrene	< 0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenzo(a,h)anthracene	< 0.1
Benzo(g,h,i)perylene	< 0.1

ENVIRONMENTAL CHEMISTS

	= *		
Client Sample LD:	Method Blank	Client:	Clayton Group Services, Inc.
Date Received:	Not Applicable	Project:	75-03092.00, F&BI 301035
Date Extracted:	01/13/03	Lab ID:	mb 03-121 rx sg
Date Analyzed:	01/17/03	Data File:	011724.D
Matrix:	Water	Instrument:	GCMS3
Units:	ug/L (ppb)	Operator:	YA
		•	
		T	

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Anthracene-d10	93	32	121
Benzo(a)anthracene-d12	99	43	125

• •	
Compounds:	Concentration: ug/L (ppb)
Naphthalene	< 0.1
Acenaphthylene	< 0.1
Acenaphthene	< 0.1
Fluorene	< 0.1
Phenanthrene	< 0.1
Anthracene	< 0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Benzo(a)pyrene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenzo(a,h)anthracene	< 0.1
Benzo(g.h.i)pervlene	<0.1

ENVIRONMENTAL CHEMISTS

Date of Report: 01/22/03 Date Received: 01/07/03

Project: 75-03092.00, F&BI 301035

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 301035-14 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	μg/L (ppb)	<1	<1	nm
Toluene	$\mu \mathrm{g/L}$ (ppb)	<1	<1	nm
Ethylbenzene	$\mu g/L$ (ppb)	<1	<1	nm
Xylenes	μg/L (ppb)	<1	<1	nm
Gasoline	$\mu g/L$ (ppb)	< 50	<50	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	μg/L (ppb)	25	91	95	71-117	4
Toluene	μg/L (ppb)	25	90	94	71-119	4
Ethylbenzene	μg/L (ppb)	25	92	96	67-125	4
Xylenes	$\mu g/L$ (ppb)	75	91	95	65-127	4.
Gasoline	μg/L (ppb)	1,000	80	88	62-120	10

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/22/03 Date Received: 01/07/03

Project: 75-03092.00, F&BI 301035

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 301035-01 (Duplicate)

				Relative Percent
	Reporting	Sample	Duplicate	Difference
Analyte	Units_	Result	Result	(Limit 20)
Diesel Extended	μg/g (ppm)	<50	< 50	nm

Laboratory Code: 301035-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
_Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	μg/g (ppm)	500	<50	90	91	62-142	1

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
_Analyte	Units	Level	LCS	Criteria
Diesel Extended	μg/g (ppm)	500	89	66-132

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/22/03 Date Received: 01/07/03

Project: 75-03092.00, F&BI 301035

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Tilluly be	Onto	Devei	100	LCSD	Criteria	(12)111111 (20)
Diesel Extended	μg/L (ppb)	2,500	96	103	71-128	8

ENVIRONMENTAL CHEMISTS

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270C SIM

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Naphthalene	μg/L (ppb)	5	93	95	62-128	2
Acenaphthylene	μg/L (ppb)	5	97	98	67-140	1
Acenaphthene	μg/L (ppb)	5	93	94	62-132	1.
Fluorene	μg/L (ppb)	5	96	98	66-137	2
Phenanthrene	μg/L (ppb)	5	97	97	59-133	0
Anthracene	μg/L (ppb)	5	88 .	. 88	64 - 145	0
Fluoranthene	μg/L (ppb)	5	99	98	65-139	1
Pyrene	μg/L (ppb)	5	102	101	64-140	1.
Benz(a)anthracene	μg/L (ppb)	5	92	93	57-135	1
Chrysene	μg/L (ppb)	5	87	87	57-125	0
Benzo(b)fluoranthene	μg/L (ppb)	5	101	100	47-149	1
Benzo(k)fluoranthene	μg/L (ppb)	5	94	94	46-139	0
Benzo(a)pyrene	μg/L (ppb)	5	92	92	57-143	0
Indeno(1,2,3-cd)pyrene	μg/L (ppb)	5	89	90	58-147	1
Dibenzo(a,h)anthracene	μg/L (ppb)	5	88	89	56-152	1.
Benzo(g,h,i)perylene	μg/L (ppb)	5	90	91	53-146	1.

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City, State, ZIP <u>Seattle, WA 98134</u> Phone #_(206) 763-7364	REMARKS PLENSE PAX DIAPT	RESULTS	SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instruction

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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

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Address 4636 E. Marginal Way S., Ste 215	75-03092.00		Rush charges authorized by:
City, State, ZIP_Seattle, WA 98134	REMARKS		SAMPLE DISPOSAL Dispose after 30 days
Phone #_(206) 763-7364Fax #_(206) 763-4189	PLEASE PAX RESULT	rs ASAP	☐ Return samples ☐ Will call with instructions

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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

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Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029

Ph. (206) 285-8282 Fax (206) 283-5044

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www.claytongrp.com

Industrial Properties Inc

4636 E. Marginal Way S. Suite 215 Lete, WA 98134 53.7364 F. 1206.763.4189

February 11, 2003

Ms. Theresa Fisher Voluntary Cleanup Program Administrator Department of Ecology 3190 160th Avenue SE Bellevue, Washington 98008-5452

Clayton Project No. 75-03092.00

RECEIVED
FEB 1 2 2003
DEPT OF ECOLOGY

Subject:

Subsurface Release Investigation Report - Industrial Properties Inc.,

2450 Sixth Avenue South, Seattle, Washington 98134 (TCP ID#

NW1016)

Ms. Fisher:

Please find enclosed one unbound copy of the report entitled "Subsurface Release Investigation Report – Industrial Properties, Inc., 2450 Sixth Avenue South, Seattle, Washington 98134 (TCP ID# NW1016)".

If you have any questions or comments regarding the project, please contact Akos Fekete or me at (206) 763-7364.

Sincerely,

Greg Ferris, MS

Licensed Geologist

Environmental Services

Seattle Regional Office

Mr. Ben Ives – Industrial Properties, Inc.

Mr. John Houlihan – Short Cressman & Burgess PLLC

Ms. Kim Johnston – Industrial Properties, Inc.

Enclosure

Cc:

4636 E. Marginal Way S. Suite 215 Seattle, WA 98134 206.763.7364 Fax 206.763.4189



February 14, 2003

Ms. Theresa Fisher
Voluntary Cleanup Program Administrator
Department of Ecology
3190 160th Avenue SE
Bellevue, Washington 98008-5452

Clayton Project No. 75-03092.00

Subject:

Interim Free Product Recovery – Industrial Properties Inc., 2450 Sixth Avenue South, Seattle, Washington 98134 (TCP ID# NW1016)

Ms. Fisher:

Please find attached a copy of Clayton's proposal to Industrial Properties, Inc. to initiate interim free product recovery activities at 2450 Sixth Avenue South, Seattle, Washington 98134 (TCP ID# NW1016). During subsurface release investigation activities in November 2002, free product was detected in a boring (B5) drilled just north of the 10,000-gallon heating fuel underground storage tank (UST-1) at the site. Following the November 2002 subsurface investigation, the fuel remaining in the three USTs was removed to mitigate any potential future releases at the site. Soil and groundwater impacts were delineated during January 2003 and a report was submitted to the Voluntary Cleanup Program (VCP) summarizing the release investigation activities. Clayton anticipates active free product recovery will begin at the site during March 2003.

If you have any questions or comments regarding the project, please contact Akos Fekete or me at (206) 763-7364.

Sincerely,

Greg Ferris, MS

Licensed Geologist Environmental Services

Seattle Regional Office

RECEIVED

FEB 1 8 2003

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Cc:

Mr. Ben Ives – Industrial Properties, Inc.

Mr. John Houlihan - Short Cressman & Burgess PLLC

Attachment

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4636 E. Marginal Way S. Suite 215 Seattle, WA 98134 206.763.7364 Fax 206.763.4189



February 14, 2003

Mr. Ben Ives Industrial Properties P.O. Box 546 Black Eagle, Montana 59414 (800) 451-4931 Sent PDF via E-mail

Clayton Proposal No. 03SEAES016

Subject: Proposal for Interim Free Product Recovery at Industrial Properties, Inc., 2450 Sixth Avenue South, Seattle, Washington 98134

Mr. Ives:

Clayton Group Services, Inc. (Clayton) is pleased to submit this proposal to Industrial Properties, Inc. to initiate interim free product recovery activities at Industrial Properties, Inc., 2450 Sixth Avenue South, Seattle, Washington (the 'subject property').

BACKGROUND

Clayton performed subsurface release investigation activities during November 2002 and January 2003 to assess soil and groundwater conditions in the vicinity of three heating fuel underground storage tanks (USTs) at the subject property (report dated February 11, 2003). Drilling and sampling during November 2002 just north of the 10,000-gallon heating fuel tank (UST-1), located inside the former Far West Taxi office, indicated the presence of free product (heating fuel) floating on the water table. None of the other 23 borings drilled at the site during the subsurface release investigation indicated the presence of free product.

Based on the results of the subsurface release investigation activities, Clayton recommended the following activities at the site:

• Initiate free product removal from the north end of UST-1 to mitigate the ongoing source of soil and groundwater contamination.



Page 2 03SEAES016

- Evaluate soil and groundwater remediation alternatives to address the petroleum contamination documented at the site and negotiate with Ecology to determine appropriate actions to take.
- Decommission the three USTs in accordance with Ecology guidelines.

Figure 1, included in Attachment A, shows the location of the three USTs at the subject property, including the proposed free product recovery well location north of UST-1.

The results of the interim free product recovery program will provide critical information for evaluating and developing appropriate remediation alternatives to address remaining soil and groundwater contamination at the site. Therefore, Clayton recommends initiating the free product recovery phase of the project at this time. Following the end of the proposed three month interim free product recovery program, Clayton will provide a separate cost proposal to Industrial Properties to perform a feasibility study that will evaluate soil and groundwater remediation alternatives to address the petroleum impacted soil and groundwater at the subject property.

Clayton also recommends proceeding with decommissioning the USTs at the subject property at this time. With the R.H. Smith office and garage currently empty, UST-3 can be easily accessed. UST-3 can be removed from the subsurface, along with any contaminated soil in the immediate area, while this tenant space is vacant. However, removal of UST-1 and UST-2 may not be feasible considering the need to continue using the building in its current configuration. UST-1 and UST-2 could be decommissioned in place as previously proposed. Our tank contractor has indicated that if UST-1 and UST-2 are closed in place (as previously proposed), decommissioning UST-3 by excavation and removal would not likely result in an increase in cost for the project (as previously budgeted). However, additional charges would be incurred for the excavation, transport and disposal of any contaminated soil in the vicinity of UST-3 at a cost of approximately \$70 per ton and \$75 per hour for Clayton to oversee the excavation. If you wish to proceed with decommissioning the USTs at this time, please direct us to do so and we will proceed in accordance with the approved scope of work detailed in Clayton's Proposal No. 02SEAES051R (dated September 11, 2002) included as an attachment to the Confidential Environmental Services Agreement between Clayton and Industrial Properties executed on October 17, 2002.

Soil contamination detected during the subsurface investigation in the vicinity of UST-1 and UST-2 appeared to be limited to the zone of water table fluctuation. Therefore, it appears that groundwater contamination will be the main focus of the remediation efforts at the site and the presence of USTs decommissioned in place should not a have a great impact on applicable remediation technologies.



Page 3 03SEAES016

PURPOSE

The purpose of the project is to: 1) Initiate interim free product recovery activities at the north end of UST-1; and 2) Prepare and submit a report summarizing the findings of the interim free product recovery program, with any conclusions and recommendations.

SCOPE OF WORK

Clayton proposes to conduct the following scope of work as part of the interim free product recovery program at the north end of UST-1:

- Locate utilities in the vicinity of the proposed free product recovery well.
- Install the free product recovery well near the north end of UST-1 (just east of boring B5) for the purpose of removing free product. The free product recovery well will be installed using three-inch-diameter screen and casing to a depth of 20 feet bgs and will be drilled with limited-access hollow-stem-aguer drilling equipment. The drill cuttings from the recovery well will be contained in 55-gallon drums and properly disposed of.
- Remove free product (by disposable bailer) from the recovery well on a weekly basis
 for an initial period of three months (a total of 12 events). During each free product
 recovery event, Clayton will record the initial (apparent) thickness of free product,
 the amount of free product and impacted groundwater removed from the recovery
 well, and the final product thickness after the recovery well has been allowed to
 equilibrate.
- Containerize the free product, along with any groundwater removed, in labeled 55-gallon drums designed to hold petroleum products and place the drums near the south end of the loading dock (for temporary storage). Properly dispose of the drums containing free product and petroleum impacted groundwater on a monthly basis.
- Prepare and submit a report summarizing the findings of the free product recovery operations, with any conclusions and recommendations.
- Prepare a proposal to perform a feasibility study to evaluate soil and groundwater remediation alternatives to address the petroleum impacted soil and groundwater at the subject property.

Figure 2, included in Attachment A, shows a detailed cross-section of the proposed free product recovery well north of UST-1.



Page 4 03SEAES016

FEES

Clayton will provide the services described in the scope of work for an estimated time and materials fee of \$14,600. This fee is based on hourly rates plus material costs, out-of-pocket expenses (travel, incidentals) reasonably incurred in the performance of the work, and other direct costs, provided all such expenses are substantiated by reasonable and customary supporting documentation. Estimates of all out-of-pocket expenses, material costs, and other direct costs assume cost plus 10%. If delays or obstructions are encountered during the course of this project, Industrial Properties will be notified immediately, and our scope of work and fees will be modified accordingly. A cost breakdown is presented below:

Estimated Costs

Task	Cost
Interim Free Product Recovery Program	
Clayton Labor	
Project Management	\$300
Coordinate and Log Drilling of Free Product Recovery Well	\$750
Free Product Recovery (12 events)	\$3,600
Coordinate and Oversee Drum Disposal	\$450
Prepare Interim Free Product Summary Report	\$1,200
Subcontractors	
Geo-Tech Exploration (Recovery Well Driller)	\$3,600
Applied Professional Services (Utility Location)	\$200
FOSS Environmental (Drum Disposal – 10 Drums Maximum)	\$2,000
Laboratory Analysis	
TPH as diesel fuel and oil (2 soil samples/2 water samples)	\$200
Expenses and Equipment Rental	
Drums (10 maximum)	\$500
Interface Probe Rental (12 events)	\$1,200
Hand Truck Rental (12 events)	\$200
Disposable Bailers	\$200
Mileage and Misc. Equipment	\$200
Total Estimated Cost =	\$14,600



Page 5 03SEAES016

The costs outlined above for the proposed weekly free product recovery events include:
1) coordinating the work and site access with the current property manager and tenants;
2) securing the rental equipment (interface probe and hand truck) on weekly basis to perform the work; 3) ensuring that petroleum vapors are vented to the outside during recovery of free product; and 4) removing free product and impacted groundwater from the recovery well and placing into properly labeled and stored 55-gallon drums designed to hold petroleum products.

SCHEDULE

Following receipt of authorization to proceed, Clayton anticipates that it will take approximately two weeks to install the free product recovery well and three months to perform the interim free product recovery activities.



Page 6 03SEAES016

TERMS AND CONDITIONS

Clayton will perform the proposed services in accordance with the Terms and Conditions outlined in the Confidential Environmental Services Agreement between Clayton and Industrial Properties dated October 17, 2002. Please sign below as indicated and return a copy to me via fax to (206) 763-4189. Your signature represents your acceptance of the proposal.

If you have any questions or would like to discuss alternatives to the scope of work, please feel free to call Akos Fekete or me at (206) 763-7364.

Sincerely,

Greg Ferris, MS Licensed Geologist Environmental Services Seattle Regional Office

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Attachment A - Figures

Proposal Accepted by:	 	
Print Name:		
Title:		
Company:		
Date:		

4636 E. Marginal Way S. Suite 215 Seattle, WA 98134 206.763.7364 Fax 206.763.4189



ATTACHMENT A FIGURES

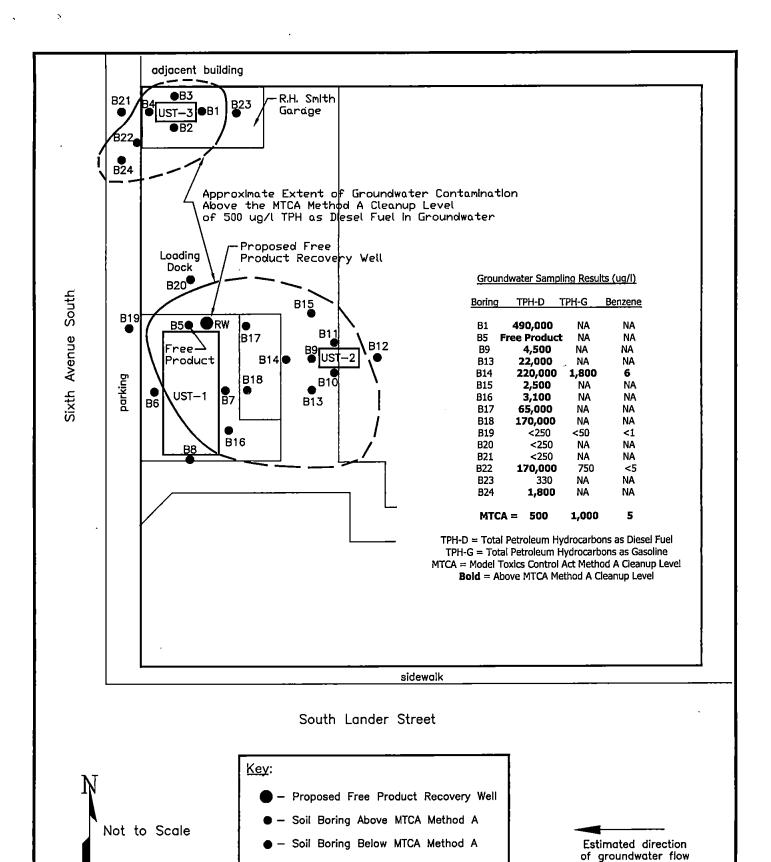


Figure 1
Proposed Free
Product Recovery
Well Location

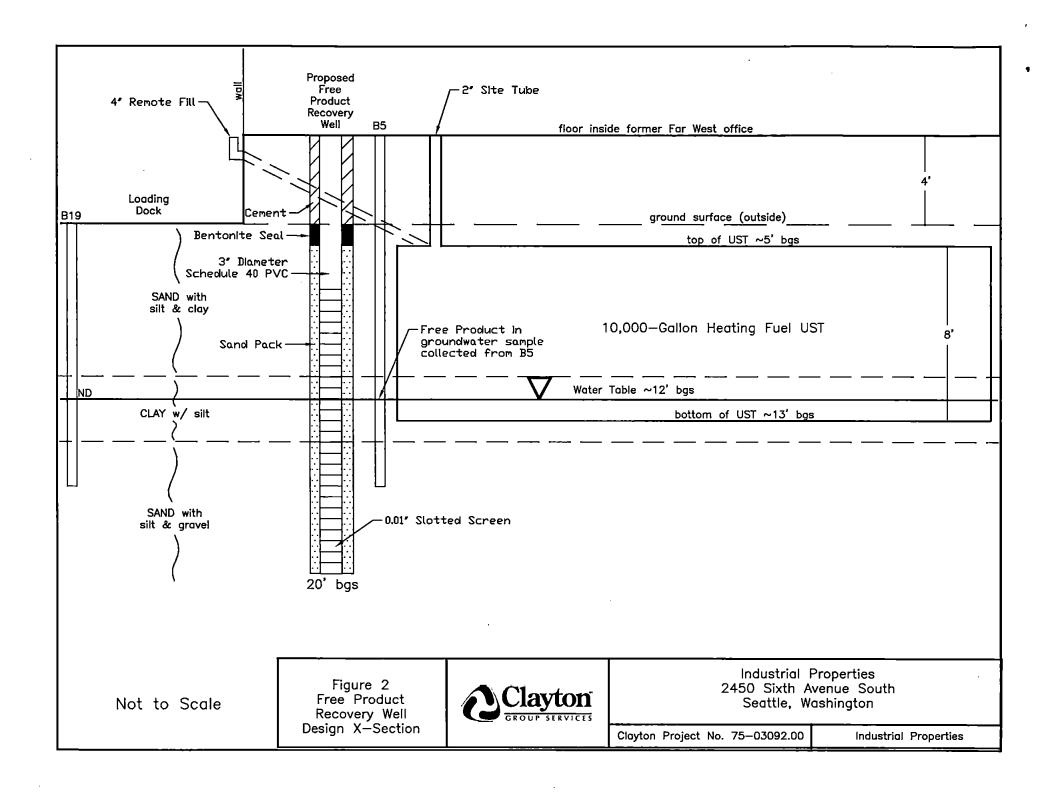


Industrial Properties 2450 Sixth Avenue South Seattle, Washington

Clayton Project No. 75-03092.00

Approximate Extent of Groundwater Contamination Above 500 ug/l TPH as Diesel Fuel (MTCA Method A)

Industrial Properties



TOXICS CLEANUP PROGRAM

VOLUNTARY CLEANUP PROGRAM SITE LOG

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STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

September 9, 2004

Mr. Ben Ives Industrial Properties, Inc. P.O. Box 1716 Auburn, WA 98071-1716

Dear Mr. Ives:

Re: Independent Remedial Action Industrial Properties, Inc., 2450 Sixth Avenue South, Seattle, WA

Thank you for submitting the results of your independent remedial actions for review by the State of Washington Department of Ecology (Ecology). Ecology appreciates your initiative in pursuing this administrative option under the Model Toxics Control Act (MTCA).

Ecology's Toxics Cleanup Program has reviewed the following information regarding the Industrial Properties, Inc. located at 2450 Sixth Avenue South, Seattle, WA:

- "Underground Storage Tank Closure Report Indistrial and Transfer and Storage Co. Inc."
 by O'Sullivan Omega dated June 13, 1994
- 2. "Phase I Environmental Site Assessment, Industrial Transfer Warehouse and Storage Yard" by Clayton Group Services dated September 2001
- 3. "Subsurface Release Investigation Report Industrial Properties Inc." by Clayton Group Services dated February 2003
- "Interim Free Product Recover Industrial Properties Inc." by Clayton Group Services dated February 2003
- 5. "Underground Storage (UST) Closure and Site Assessment Industrial Properties Inc." by Clayton Group Services dated April 2003
- 6. "Site Remediation Feasibility Study Industrial Properties Inc." by Clayton Group Services dated June 2003
- 7. "Sampling and Analysis Plan for the Removal of One Underground Storage Tank and the Characterization of Groundwater Quality– Industrial Properties Inc." by Clayton Group



Industrial Properties, Inc.

Page 2

Services dated December 2003

- 8. "Sampling and Analysis Plan for the Removal of Two Underground Storage Tanks Industrial Properties Inc." by Clayton Group Services dated March 2004
- 9. "Underground Storage (UST) Removal and Site Assessment Industrial Properties Inc." by Glayton Group Services dated May 2004

The reports listed above will be kept in the Central Files of the Northwest Regional Office (NWRO) of Ecology for review by appointment only. Appointments can be made by calling Central Records at the NWRO at (425) 649-7190 or -7239.

Based upon the information in the reports listed above, Ecology has determined that, at this time, the release of petroleum product into the soil and groundwater no longer poses a threat to human health or the environment.

Therefore, Ecology is issuing this determination that no further remedial action is necessary at this site under MTCA, chapter 70.105D RCW. However, please note that because your actions were not conducted under a consent decree with Ecology, this letter is written pursuant to RCW 70.105D.030(1)(i) and does not constitute a settlement by the state under RCW 70.105D.040(4) and is not binding on Ecology. Furthermore, you must conduct the necessary monitoring and maintenance to assure that this site does not pose a threat to human health or the environment. Ecology agrees with the proposed semi-annually, two year period groundwater monitoring plan. Failure to conduct necessary monitoring and maintenance results in the automatic withdrawal of Ecology's no further action determination.

In addition, the Restrictive Covenant filed on your property dated August 26, 2004, is a condition to maintain Ecology's no further action determination. The Restrictive Covenant is attached to this letter as Attachment A. Ecology's no further action determination automatically terminates and will have no force and effect if any portion of the Restrictive Covenant is violated. WAC 173-340-440(6) requires you to notify and seek comment from a city or county department with land use planning authority for real property subject to the Restrictive Covenant.

Ecology's no further action determination is made only with respect to the release identified in the reports listed above. This no further action determination applies only to the area of the property affected by the release identified in the report at 2450 Sixth Avenue South, Seattle, WA. It does not apply to any other release or potential release at the property, any other areas on the property, nor any other properties owned or operated by Industrial Properties Inc. This no further action determination does not apply to remedial actions determined necessary as a result of confirmational monitoring

Ecology will update its Leaking Underground Storage Tank database to reflect this "No Further Action" determination. Your site will not appear in future publications of the LUST database.

The state, Ecology, and its officers and employees are immune from all liability and no

Industrial Properties, Inc.

Page 3

cause of action of any nature may arise from any act or omission in providing this determination.

If you have any questions, please contact Sunny Linhao Becker at (425) 649-7187.

Sincerely,

Sunny Linhao Becker, P.E. Toxics Cleanup Program

Attachment A, Restrictive Covenant