

**FINAL
QUARTERLY GROUNDWATER
SAMPLING REPORT FOR JULY 2004**

at

**2737 West Commodore Way and
2750 West Commodore Way
Seattle, Washington**

Prepared for

**Time Oil Company
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November 2004

Prepared by



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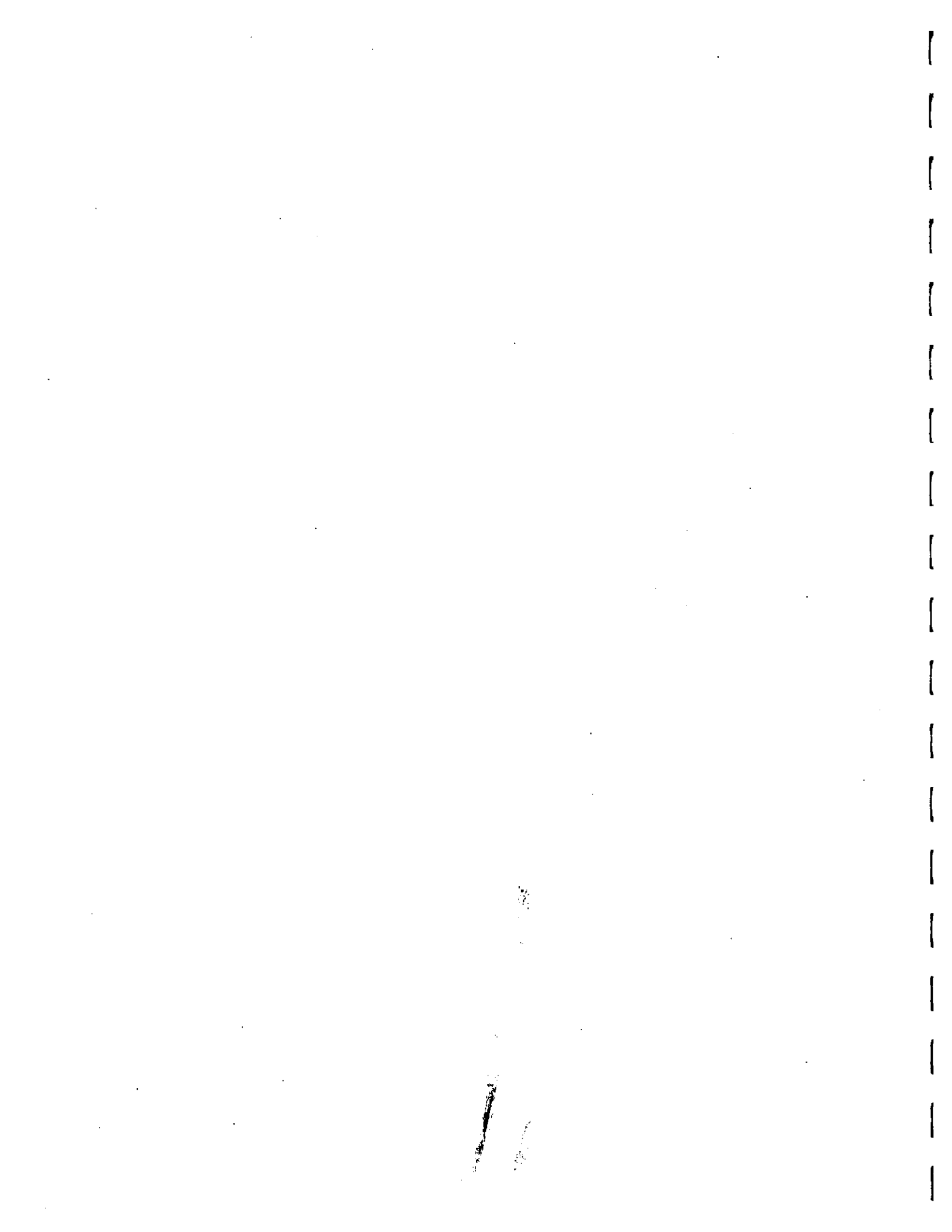
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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylene
°C	degrees Celsius
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
HDPE	high-density polyethylene
mg/L	milligrams per liter
mL/min	milliliters per minute
mS/cm	millisiemens per centimeter
msl	mean sea level
µg/L	micrograms per liter
MTCA	Model Toxics Control Act
NOAA	National Oceanic and Atmospheric Administration
NTU	nephelometric turbidity unit
NWTPH-Dx	Northwest total petroleum hydrocarbon-diesel range hydrocarbons
NWTPH-Gx	Northwest total petroleum hydrocarbon-gasoline range hydrocarbons
ORP	oxidation reduction potential
PCP	pentachlorophenol
sim	selective ion monitoring
SQuiRT™	Screening Quick Reference Tables
TOC	Time Oil Company
VOC	volatile organic compound



1. INTRODUCTION

Investigations to assess groundwater levels and specific chemical concentrations were conducted at two Time Oil Company (TOC) properties located at 2737 West Commodore Way and 2750 West Commodore Way, Seattle, Washington (Figure 1-1). TOC retained Tetra Tech FW, Inc. (TtFW) to conduct quarterly groundwater monitoring at these properties as part of an independent cleanup action.

Monitoring wells at the properties are sampled on a quarterly basis, which began in July 2001. This quarterly report presents the results of the July 2004 groundwater sampling activities at 2737 and 2750 West Commodore Way. The document also serves as an annual report summarizing trends in data collected over the last year of sampling (October 2003 through July 2004). Figure 1-2 provides a plan view of the properties relative to one another. The report is organized as follows:

- **Section 1** briefly describes the purpose and organization of the report.
- **Section 2** describes the field methods used to measure water levels and to collect samples.
- **Section 3** presents the groundwater level data.
- **Section 4** presents the analytical results.
- **Section 5** describes the conclusions and provides recommendations for future actions.
- **Appendix A** provides the data packages from the analytical laboratory for July 2004.

2. METHODS AND PROCEDURES

Field activities for July 2004 at the two TOC properties included water level measurement and quarterly groundwater sampling. This section presents a brief description of the specific methods and procedures used for quarterly monitoring.

2.1 GROUNDWATER ELEVATION SURVEY

Groundwater elevations are determined each quarter by measuring the depth to water in 28 wells at 2737 West Commodore Way and 7 wells at 2750 West Commodore Way. The depth to water measurements are collected on a single day and subtracted from the survey level at the top of the well casing to calculate the potentiometric surface (water table elevation).

Before measuring the depth to groundwater in the first well, the water level indicator is calibrated by visually comparing the markings on the tape to the markings on a measurement tape. After removing the well cap and allowing the well to stabilize, the probe is lowered into the well until the sound alarm is activated, indicating that the probe has touched the water surface. The static depth to water is read directly from the tape by holding the tape to the permanent mark on the well casing or cap. The probe is then raised and lowered to confirm the reading. An oil/water interface probe is then used in a similar manner in wells where floating product is suspected to be present.

2.2 GROUNDWATER SAMPLING

Groundwater samples are collected each quarter using a low-flow micro-purging technique in accordance with U.S. Environmental Protection Agency (EPA) guidelines (EPA 1996, EPA/540/S-95/504). Each monitoring well is micro-purged (300 to 500 milliliters per minute [mL/min]) using a peristaltic pump with disposable high-density polyethylene (HDPE) tubing. A small section of thick-walled silicon is used around the head of the peristaltic pump to achieve the pressures necessary to draw the groundwater up the well. Groundwater samples are collected in laboratory-supplied glassware and hand delivered to the laboratory each evening after sampling.

Groundwater sampling was conducted in July 2004 in accordance with the following sampling procedures:

1. Calibrate field instruments in accordance with the manufacturer's directions. Record all calibration data in the field log book.
2. Confirm well identification using site map.
3. Measure the depth to water at each well. Record the depth to water. Decontaminate the water level meter before each measurement.
4. Carefully lower the HDPE tubing into the well with as little disturbance to the groundwater as possible. Place the intake at the middle of the screen interval. Set pump rate to ensure the water column in the well does not drop more than 0.2 feet below the initial water level reading.
5. Purge the well at a flow rate of 300 to 500 mL/min. Monitor water level to ensure minimal drawdown. Monitor water quality parameters every 3 to 5 minutes during purging (turbidity, pH, temperature, conductivity, oxidation reduction potential [ORP], and dissolved oxygen) using in-line monitoring equipment. Stabilization is achieved if three successive readings are within ± 0.1 pH units, ± 1 degree Celsius ($^{\circ}\text{C}$) for temperature, ± 10 percent for conductivity, ± 10 percent for dissolved oxygen, and ± 10 millivolts for ORP.
6. When water quality parameters are stable for three consecutive readings, turn off the pump and remove the tubing from the well or leave the tubing in place securing it at the surface within the well head. Place the tubing in a sealed, labeled plastic bag. Replace the well cap and seal the monument.
7. Return within 24 hours and insert the appropriate HDPE tubing into the well. Connect the pump and adjust the pump flow to a rate of approximately 200 mL/min. Collect samples for volatile organic compounds (VOC) and gasoline analyses first. Fill the containers so that no headspace exists.
8. Increase the flow rate to approximately 300 to 500 mL/min while maintaining minimal to no drawdown and collect the remaining samples.

2.3 GROUNDWATER ANALYSES

Groundwater samples were collected on July 13 through July 20, 2004, using laboratory-supplied glassware. The groundwater samples were delivered to the laboratory

each evening after sampling and, depending on the specific data needs, were analyzed for all or some of the following contaminants:

- Gasoline range hydrocarbons, using Washington State Department of Ecology's (Ecology's) Northwest total petroleum hydrocarbon-gasoline (NWTPH-Gx) method;
- Benzene, toluene, ethylbenzene, xylene (BTEX) using EPA Method 8021B;
- Diesel and Lube oil range hydrocarbons, using Ecology's Northwest total petroleum hydrocarbon-diesel extended (NWTPH-Dx) method; and
- Pentachlorophenol (PCP), using EPA Method 8270-sim (selective ion monitoring).

The groundwater samples analyzed for diesel and oil underwent a silica gel cleanup before analysis. This cleanup was done to remove naturally occurring organic material that may interfere with the analysis. Groundwater samples were analyzed by North Creek Analytical Laboratories, Inc., in Bothell, Washington.

The sampling during July 2004 was an annual sampling event; therefore, additional modifications to the sampling list were made. Table 2-1 shows the wells sampled in July 2004 and the respective analyses. Many of the wells that are not routinely sampled (i.e., 01MW-06, 01MW-15,) were added to see if conditions had changed since the wells were removed from the sampling program. PCP analysis was added to some wells to ensure that the extent of PCP-impacted groundwater was defined.

3. GROUNDWATER LEVEL DATA

Field activities conducted at the TOC properties included the quarterly collection of water level measurements. This section describes the collection of July 2004 water level measurements and summarizes groundwater flow directions beneath 2737 and 2750 West Commodore Way.

Measurements for depth to water were made using an electronic measuring tape with markings every 0.01 foot. All water levels were measured on a single day. Measurements were subtracted from surveyed measuring point elevations to produce the water level elevations. Where present, the thickness and specific gravity (0.8) of free phase product fuel on the water table was considered when calculating the elevation of the water table.

3.1 2737 WEST COMMODORE WAY

Water level measurements were collected from 28 wells at 2737 West Commodore Way on July 12, 2004. Table 3-1 provides the well construction information, and Table 3-2 shows the groundwater elevations in feet above mean sea level (msl). Table 3-3 shows the groundwater elevations and fuel thickness for the last four quarters. In general, the water levels have decreased slightly relative to April 2004, possibly due to seasonal variation. The groundwater elevations during the four quarter period are generally consistent showing a slight seasonal increase in January and April. Figure 3-2 shows the locations of the wells at 2737 West Commodore Way and the water table elevation (potentiometric space). The hydrograph shown in Figure 3-1 demonstrates the general consistency of the groundwater elevations. Groundwater flows to the north toward the Ship Canal. The groundwater flow direction north of the Lower Tank Yard appears to be bifurcated, possibly by the fiber-grained material in the vicinity of Wells 01MW-16 and 01MW-10. The groundwater gradient at the site differs in the tank yards relative to the rest of the site. The gradient across the tank yards (Wells 01MW-17 to 01MW-23) is approximately 0.006 feet per foot and steepens towards the north wall of the Lower Tank Yard. The unpaved surface of the tank yards allows for greater infiltration, resulting in higher groundwater elevations and mounding. The gradient outside the tank yards (Well 01MW-01 to Well MW-09) is approximately 0.028 feet per foot.

3.2 2750 WEST COMMODORE WAY

Water level measurements were collected from seven wells at 2750 West Commodore Way on July 12, 2004. In general, the water levels at 2750 West Commodore Way have decreased slightly, relative to April 2004, possibly due to seasonal variation. The wells on the east side of the property (Wells 02MW-04, 02MW-05, and 02MW-06) show a slight increase in the elevation of the potentiometric surface. The slight increases in these wells are not consistent with historical data or with trends seen in other wells on the property. The groundwater elevations over the four quarter period are generally consistent and show an increase in water elevations in January. Figure 3-3 shows the groundwater elevation trends, including the seasonal increase in April 2004. Figure 3-4 shows the locations of the wells and potentiometric surface at 2750 West Commodore Way. Groundwater flows to the north toward the Ship Canal. The groundwater gradient from Wells 02MW-05 to Well 02MW-02 is approximately 0.010 feet per foot toward the north based on the potentiometric surface map.

4. ANALYTICAL RESULTS

The MTCA Method A Cleanup Levels for groundwater are intended to provide conservative cleanup levels for drinking water beneficial uses at sites undergoing routine cleanup actions or those sites with relatively few hazardous substances. Because the groundwater beneath the TOC sites is not used as a source of drinking water or for municipal supply, comparison of groundwater concentrations to the MTCA Method A Cleanup Levels is not technically appropriate. The primary point of exposure to groundwater beneath the sites is through the discharge of groundwater to the nearby Ship Canal, a freshwater body on the north side of 2750 West Commodore Way. Based on this exposure scenario (no groundwater use but discharge to a water body), groundwater concentrations were compared to the National Oceanic and Atmospheric Administration (NOAA) Screening Quick Reference Tables (SQuiRT™) values. These values provide screening levels for acute and chronic exposures to both freshwater and saltwater.

The SQuiRT™ values are non-promulgated values developed by the Coastal Protection and Restoration Division of NOAA to protect aquatic habitats that may be affected by hazardous waste sites. They are applicable for use at these TOC sites based on the site-specific groundwater use. Because the SQuiRT™ values are non-promulgated values, concentrations above the SQuiRT™ values do not indicate a regulatory exceedance. It is important to remember that between the various wells and the point of exposure, various chemical, physical, and biological processes occur that are likely to reduce the contaminant concentrations. Therefore, a concentration in a well is most likely not the same concentration at the point of exposure. If SQuiRT™ values were not available for a particular analyte, then the MTCA Method A default values were used.

Table 4-1 presents the groundwater parameters measured during sampling. The turbidity sensor on the water quality meter was not functioning properly during the July 2004 sampling event; therefore, suspect values are not reported in Table 4-1. Tables 4-2 and 4-3 show analytical results for the groundwater samples collected in July 2004 at 2737 and 2750 West Commodore Way, respectively. The footnotes at the bottom of each table identify the applicable action levels.

Appendix A contains the laboratory data packages for the samples collected. The data packages are presented in their entirety to allow the reader to evaluate the data relative to the quality control data associated with the environmental samples.

4.1 QUARTERLY GROUNDWATER SAMPLING AT 2737 WEST COMMODORE WAY

The following analytes were detected above the applicable action levels (Table 4-2):

- PCP was detected above the NOAA SQuiRT™ value (15 micrograms per liter [$\mu\text{g/L}$]) in Wells 01MW-22, 01MW-23, 01MW-26, and 01MW-27 at concentrations ranging from 40.5 (01MW-26) to 350 $\mu\text{g/L}$ (01MW-23).
- Diesel range hydrocarbons were detected above the MTCA Method A Cleanup Level (0.5 milligrams per liter [mg/L]) in Wells 01MW-03, 01MW-09, 01MW-18, 01MW-19, 01MW-22, 01MW-23, 01MW-24, 01MW-28, and 01MW-29 at concentrations ranging from 0.540 mg/L (01MW-23) to 19.2 mg/L (01MW-09).
- Lube Oil range hydrocarbons were detected above the MTCA Method A Cleanup Level in Well 01MW-03 at a concentration of 0.938 mg/L .
- Gasoline range hydrocarbons were detected above the MTCA Method A Cleanup Level (800 $\mu\text{g/L}$ with benzene present) in Wells 01MW-02, 01MW-03, 01MW-04, 01MW-09, 01MW-12, 01MW-18, 01MW-19, 01MW-21, 01MW-22, 01MW-23, 01MW-24, 01MW-27, 01MW-28, and 01MW-29. The concentrations in these wells ranged from 986 $\mu\text{g/L}$ (Well 01MW-21) to 19,900 $\mu\text{g/L}$ (Well 01MW-19).
- Benzene was detected above the NOAA SQuiRT™ value (5,300 $\mu\text{g/L}$) in Wells 01MW-24, 01MW-27, and 01MW-29 at concentrations of 6,750 $\mu\text{g/L}$, 6,220 $\mu\text{g/L}$, and 5,410 $\mu\text{g/L}$, respectively.
- Total xylenes were detected above the MTCA Method A Cleanup Level (1,000 $\mu\text{g/L}$) in Wells 01MW-18, 01MW-19, and 01MW-28 at concentrations of 1,360 $\mu\text{g/L}$, 3,190 $\mu\text{g/L}$, and 1,250 $\mu\text{g/L}$ (1,230 $\mu\text{g/L}$ in the duplicate sample), respectively.

4.2 QUARTERLY GROUNDWATER SAMPLING AT 2750 WEST COMMODORE WAY

The following analyte was detected above the applicable action level (Table 4-3):

- Gasoline was detected above the MTCA Method A Cleanup Level (800 $\mu\text{g/L}$ with benzene present) in Well 01MW-04 at a concentration of 4,800 $\mu\text{g/L}$ (4,800 $\mu\text{g/L}$ in the duplicate sample).

5. CONCLUSIONS AND RECOMMENDATIONS

The following subsections describe the extent of impacted groundwater beneath the two properties and annual trends, if any. Figures 5-1 through 5-3 show concentration contour maps for diesel, gasoline, and benzene, respectively.

5.1 2737 WEST COMMODORE WAY

The following discussion summarizes the annual data for each analyte monitored. Table 5-1 shows the data collected from July 2001 through July 2004 at 2737 West Commodore Way.

PCP

PCP concentrations exceeded the NOAA SQuiRT™ level in 4 of the 15 wells sampled in July 2004. The concentrations of PCP detected in July 2004 were similar to those detected in previous quarters. Well 01MW-01 is the only well routinely sampled for PCP, due to its proximity to the former fuel line from the former PCP/Diesel Mixing Area. PCP is consistently below the NOAA SQuiRT™ value in this well. Other wells were sampled for PCP in July during the annual event. The concentration (40.5 µg/L) in Well 01MW-26 is higher than the previous year by an order of magnitude, while the concentration in 01MW-27 is consistent. This may indicate a change in conditions west of the Lower Tank Yard. The concentrations detected in the wells in the Lower Tank Yard (01MW-21, 01MW-22, and 01MW-23) were similar to previous results.

The PCP-impacted groundwater plume appears to be centered around the Lower Tank Yard and the Former PCP/Diesel Mixing Area.

Diesel Range Hydrocarbon

Diesel range hydrocarbon concentrations exceeded the MTCA Method A Cleanup Level in 9 of the 24 wells sampled in July 2004. The concentrations in July 2004 were similar to those measured in April 2004 with a few exceptions. In general, the data from wells with concentrations above the reporting limit do not indicate any discernable trends with the exception of 01MW-28.

The diesel plume appears to be centralized beneath the Former Manifold Area (01MW-23, 01MW-24, and 01MW-25) and the Former PCP/Diesel Mixing Area (01MW-22) in the Lower Tank Yard. The diesel plume is interpreted to extend towards the north due to the

presence of free phase product in Wells 01MW-10 and 01MW-16 north of the Loading Rack.

The analytical data indicate that diesel concentrations are present above the MTCA Method A Cleanup Level in Wells 01MW-03, 01MW-18, 01MW-19, and 01MW-09. A review of the chromatograms for the samples relative to the standards supplied by the laboratory indicate that gasoline is present in all of the wells. However, diesel is present only in 01MW-09. The plume north of the Office Building on Figure 5-1 (diesel-impacted groundwater) is based on the analytical results and may be more representative of gasoline-impacted groundwater.

In addition, the chromatograms for Wells 01MW-28 and 01MW-29 indicate that diesel range hydrocarbons are primarily present. The elevated gasoline range hydrocarbon concentrations may be due to the high concentration of diesel and/or co-eluting peaks.

Lube Oil Range Hydrocarbons

Lube oil range hydrocarbon concentrations exceeded the MTCA Method A Cleanup Level in 1 of 24 (01MW-03) wells sampled in July 2004. This well is sampled quarterly with no detections above the method reporting limit during the previous quarter. The detection in July 2004 is not consistent with the previous data.

Gasoline Range Hydrocarbons

Gasoline range hydrocarbon concentrations exceeded the MTCA Method A Cleanup Level for gasoline with benzene present in 14 of the 24 wells sampled in July 2004. The concentrations in July 2004 were similar to those measured in April 2004, with a few exceptions, and were also consistent with the previous quarters through the four quarter period. The concentration of gasoline in 01MW-02 and 01MW-09 were an order of magnitude lower than April 2004. The change in 01MW-02 is not consistent with historical data. The change in 01MW-09 may be due to the passive skimmer installed in the well and other nearby wells. The concentration of gasoline in other wells is fairly consistent.

The gasoline plume appears to be centralized beneath the Former Manifold Area (01MW-24 and 01MW-25) and the Former PCP/Diesel Mixing Area (01MW-21 and 01MW-22) in the Lower Tank Yard. The gasoline plume is interpreted to extend towards the north due to the presence of free phase product in Wells 01MW-10 and 01MW-16 north of the Loading Rack.

Gasoline concentrations exceed the MTCA Method A Cleanup Level in several wells in front of the Office Building. It is not clear whether the gasoline-impacted groundwater in front of the Office Building is associated with a separate source (possibly the former or current UST), or associated with the source near the Lower Tank Yard.

Benzene

Benzene was detected above the NOAA SQuiRT™ level (5,300 µg/L) in 3 of the 24 wells sampled in July 2004. In general, the concentrations of benzene are consistent with historical detections.

Toluene

Toluene was not detected above the NOAA SQuiRT™ value in any of the wells, nor has it since quarterly sampling began in July 2001.

Ethylbenzene

Ethylbenzene was not detected above the NOAA SQuiRT™ value in any of the wells, nor has it since quarterly sampling began in July 2001.

Xylene

Total xylenes (m, p, and o-isomers combined) were detected above the MTCA Method A Cleanup Level in 3 of the 24 wells sampled in July 2004. The concentrations detected in Wells 01MW-18, 01MW-19, and 01MW-28 are consistent with the results from the previous quarter (August 2003).

5.2 2750 WEST COMMODORE WAY

The following discussion summarizes the annual data for each analyte monitored. Table 5-2 shows the data collected from July 2001 through July 2004 at 2750 West Commodore Way.

Diesel Range Hydrocarbons

Diesel range hydrocarbons have not been detected above the method reporting limit in any wells from October 2003 to July 2004.

Lube Oil Range Hydrocarbons

Lube oil range hydrocarbons were not detected above the method reporting limit in any of the wells from October 2003 through July 2004.

Gasoline Range Hydrocarbons

Gasoline range hydrocarbon concentrations exceeded the MTCA Method A Cleanup Level for gasoline with benzene present in one of the seven wells (Well 02MW-04). The concentrations in Well 02MW-04 were consistent for all four quarters with the exception of April where the concentrations increased one order of magnitude (12,200 $\mu\text{g/L}$). In July the concentrations were decreased (4,800 $\mu\text{g/L}$).

Benzene

Benzene was detected in two of the seven wells sampled (Wells 02MW-03 and 02MW-04). None of the concentrations detected were above the NOAA SQuiRT™ value and the data are relatively consistent from quarter to quarter.

Toluene

Toluene was detected in one of the seven wells sampled (Well 02MW-04). None of the concentrations were above the NOAA SQuiRT™ value.

Ethylbenzene

Ethylbenzene was consistently detected above the method reporting limit in Well 02MW-04. The concentrations have been relatively consistent since July 2001.

Xylene

Xylene was detected in Wells 02MW-01, 02MW-03, 02MW-04, and 02MW-07. None of the concentrations were above the MTCA Method A Cleanup Level. The detections in Wells 02MW-01 and 02MW-03 were limited to October 2003 and the detections in Wells 02MW-04 and 02MW-07 were consistent.

FIGURES



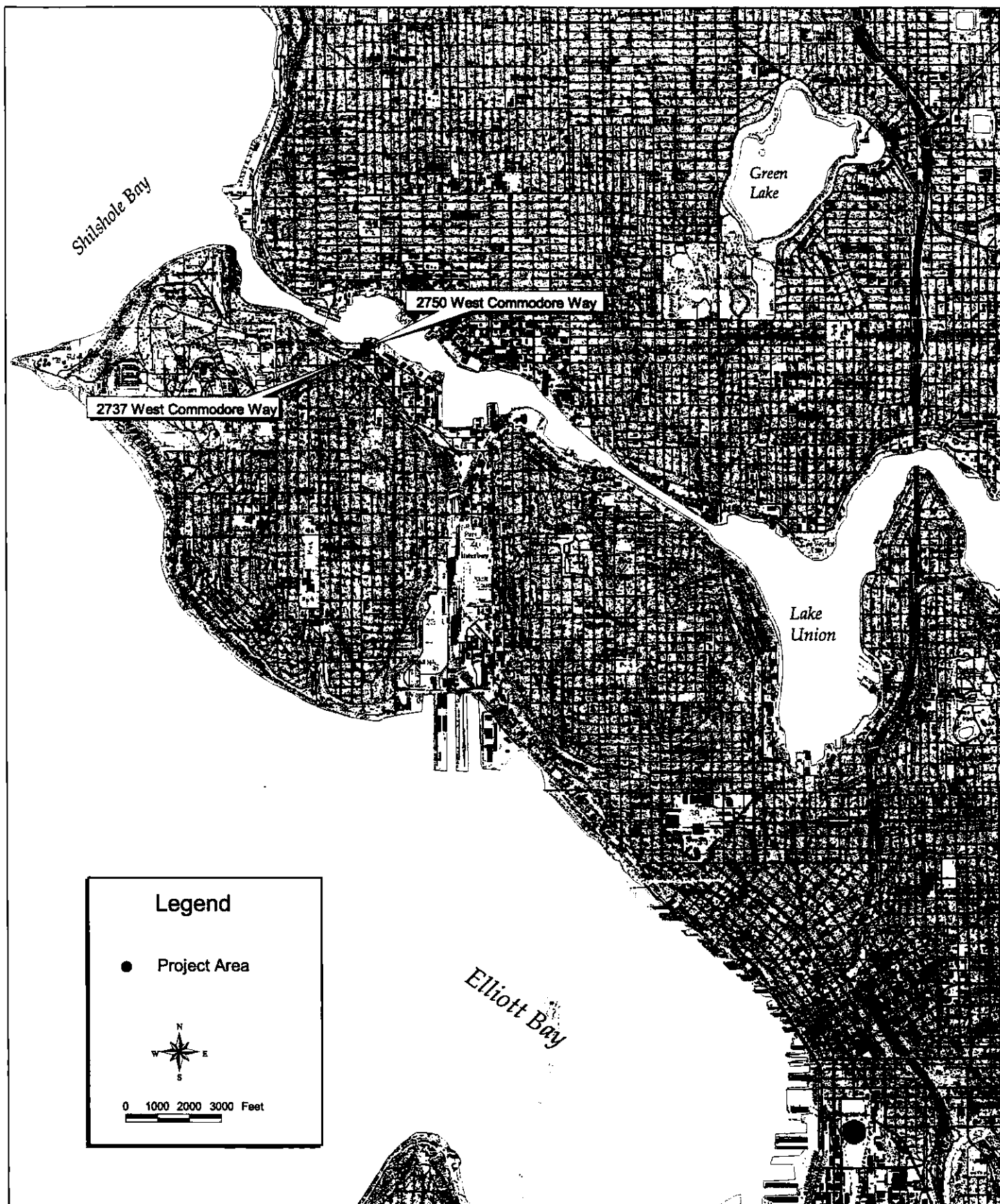
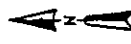
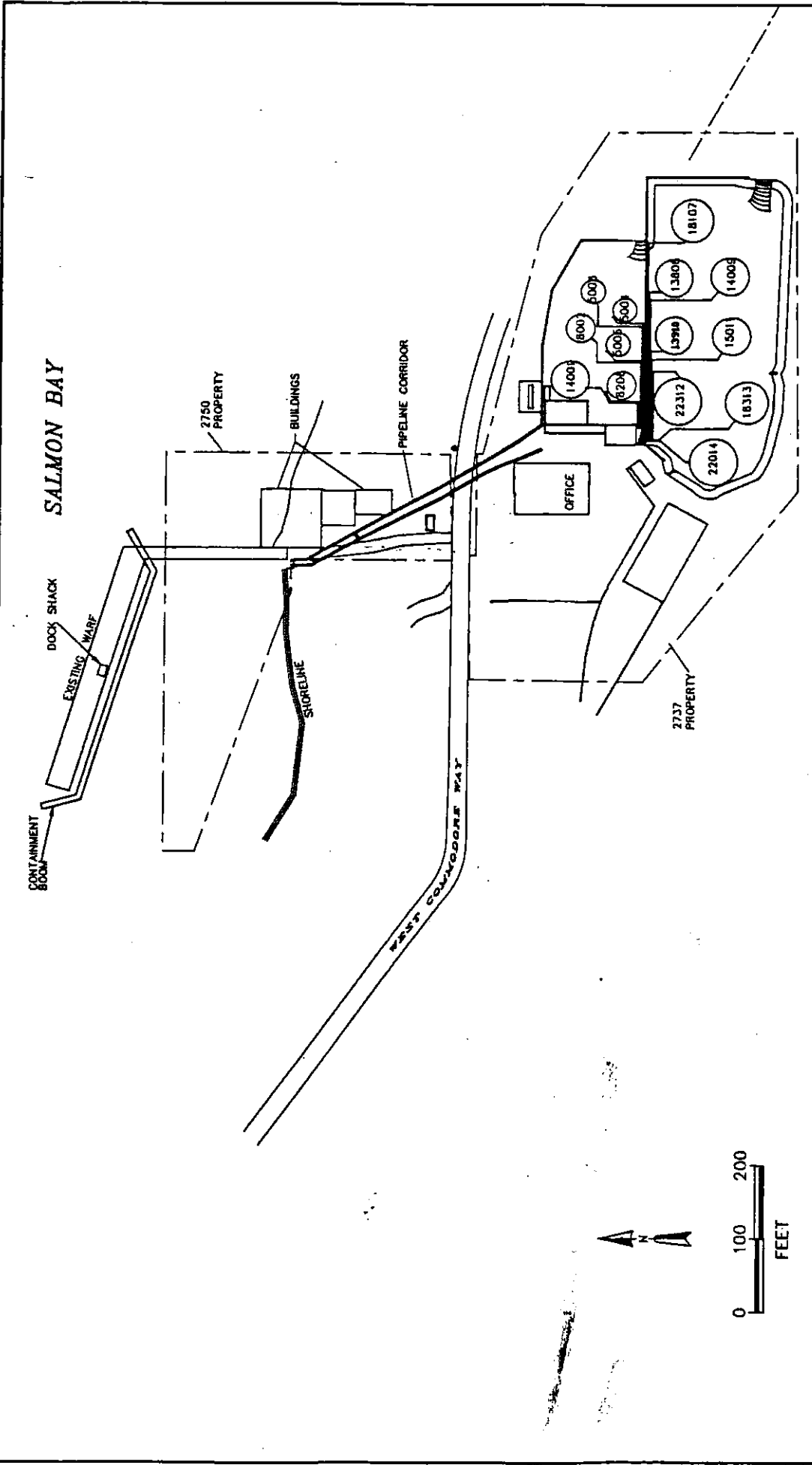


Figure 1-1

Time Oil Company
 Quarterly Groundwater Sampling

Locations of 2737 and 2750
 West Commodore Way



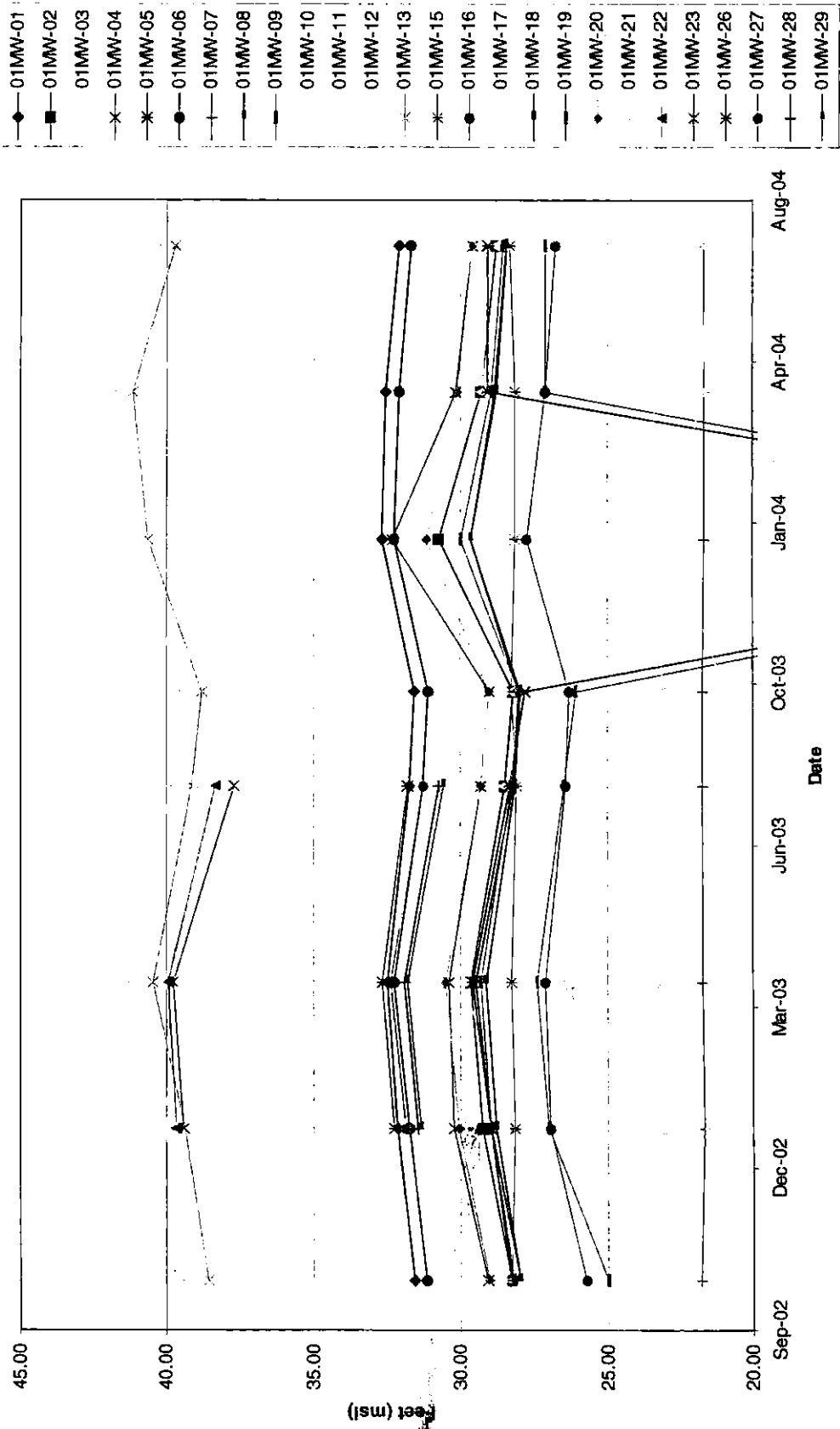


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Figure 1-2
Layout of 2737 and 2750
West Commodore Way

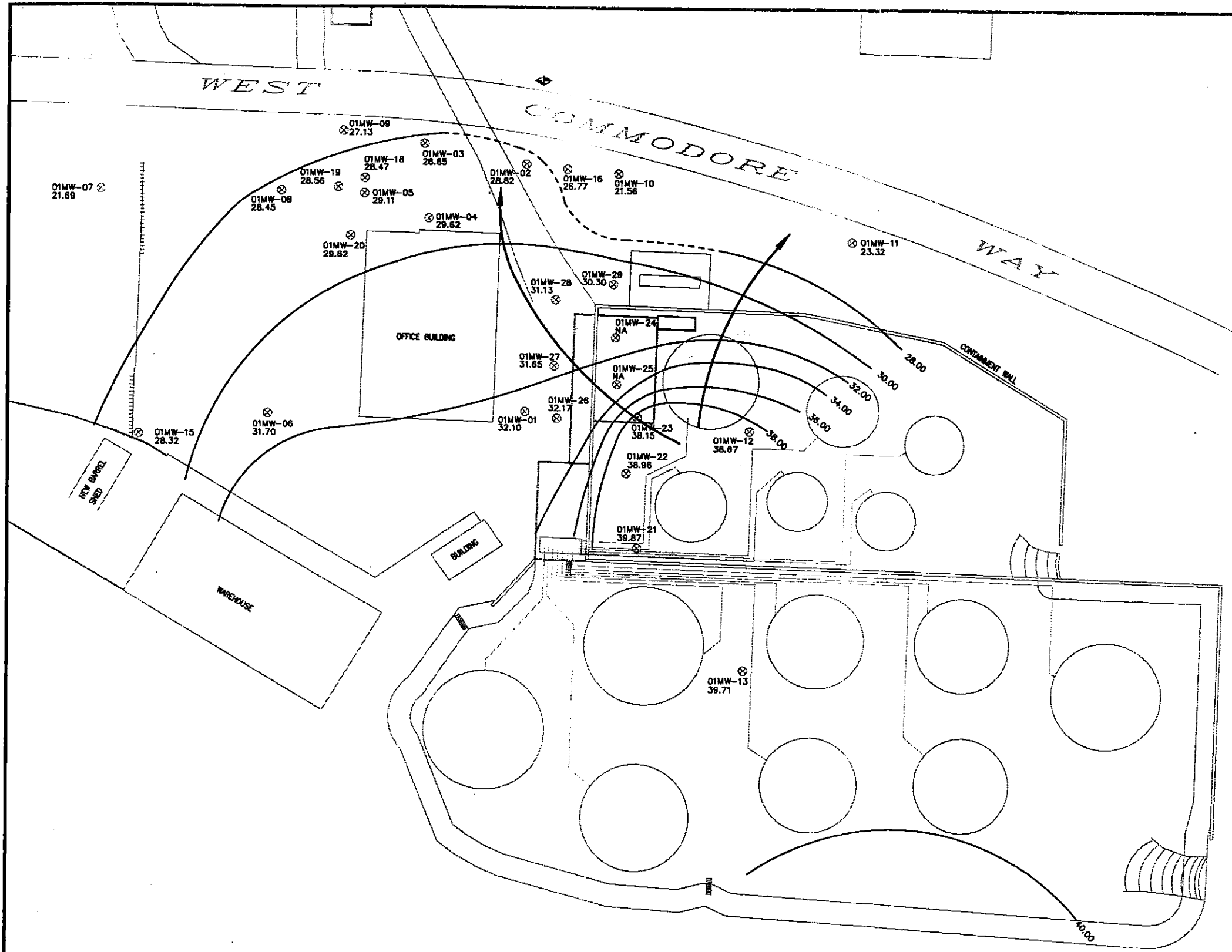


Figure 3-1. Hydrograph for Monitoring Wells at 2737 West Commodore Way



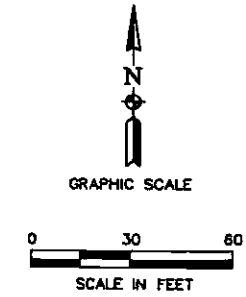
1

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- LEGEND**
- ⊗ 01MW-13 31.28 MONITORING WELL WITH GROUNDWATER ELEVATION (FEET MSL)
 - EQUIPOTENTIAL CONTOUR (DASHED WHERE INFERRED)
 - ⊕ SURVEY MONUMENT
 - ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION

- NOTES**
1. CONTOUR INTERVAL IS 2.00 FEET.
 2. GROUNDWATER ELEVATIONS IN WELLS 01MW-10 AND 01MW-18 ARE INTERPRETED TO BE UNREPRESENTATIVE OF SHALLOW AQUIFER CONDITIONS DUE TO THICK LAYER OF FINE GRAINED MATERIAL.

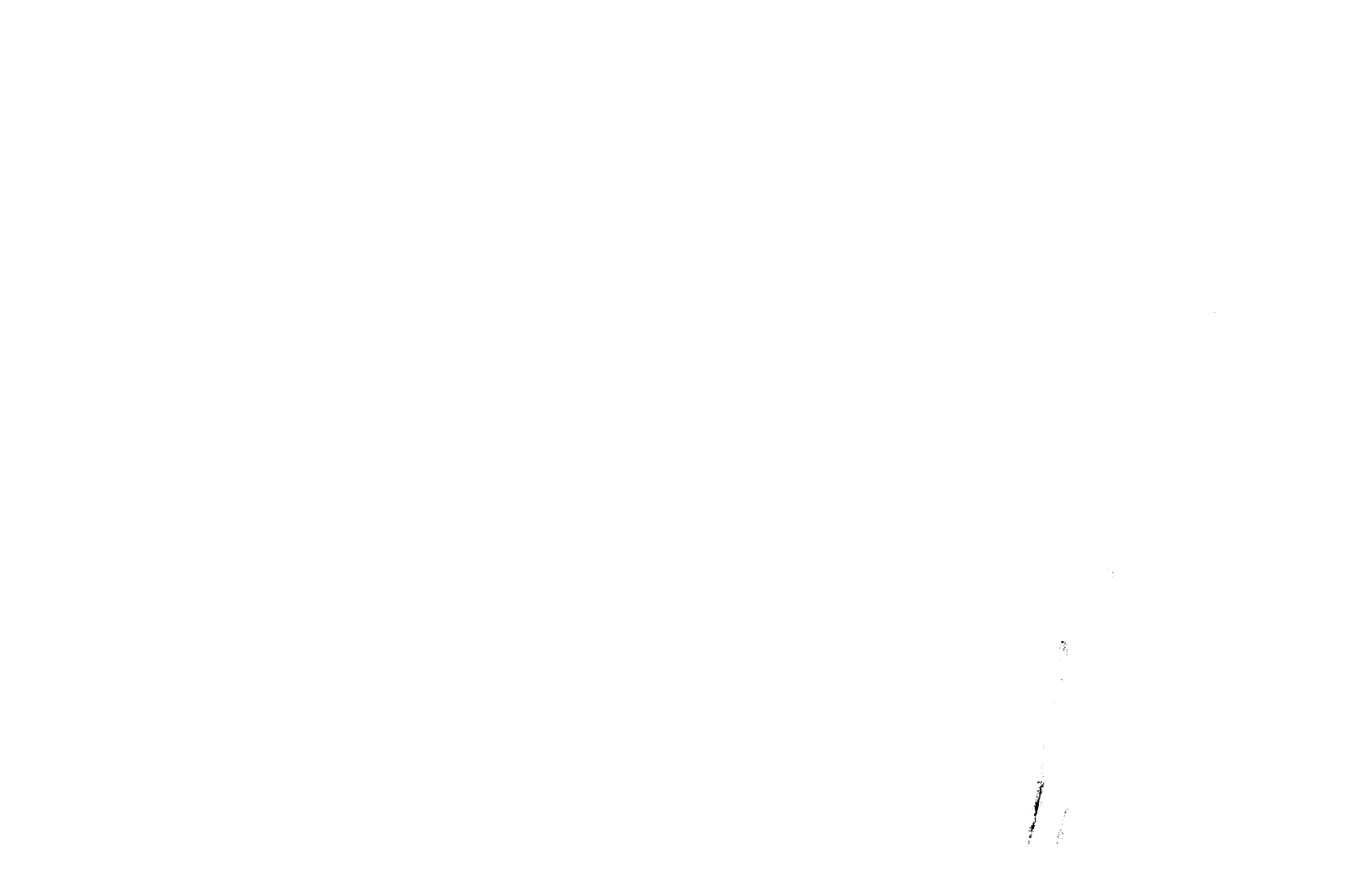


⊕ CITY OF SEATTLE
TBM #9962 = EL. 79.61



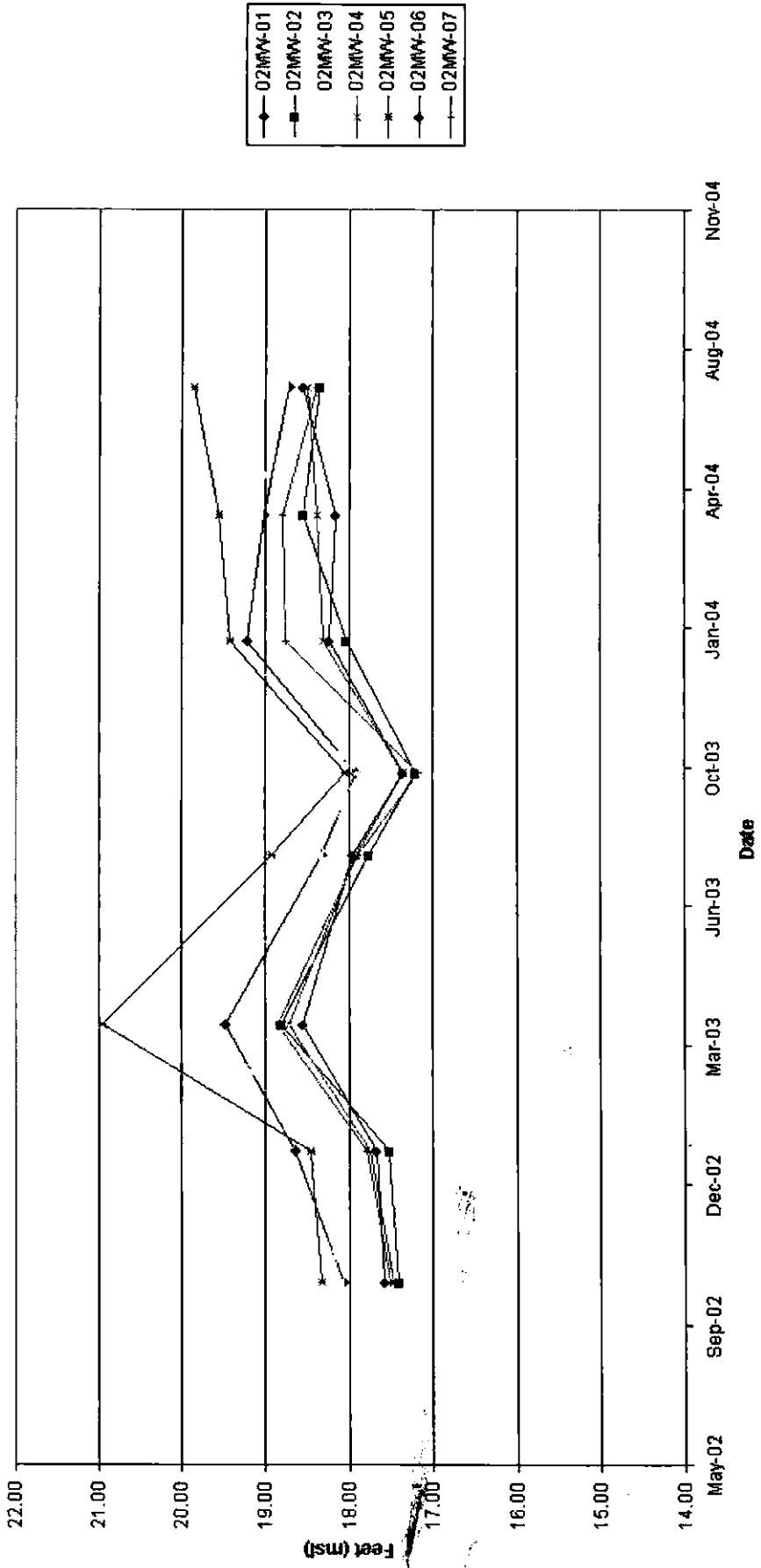
TETRA TECH FW, INC.

Figure 3-2
Location of Wells and Potentiometric Surface
at 2737 West Commodore Way,
July 12, 2004



Time Oil Company
 Quarterly Groundwater Sampling Report for July 2004
 2737 and 2750 West Commodore Way

Figure 3-3. Hydrograph for Monitoring Wells at 2750 West Commodore Way



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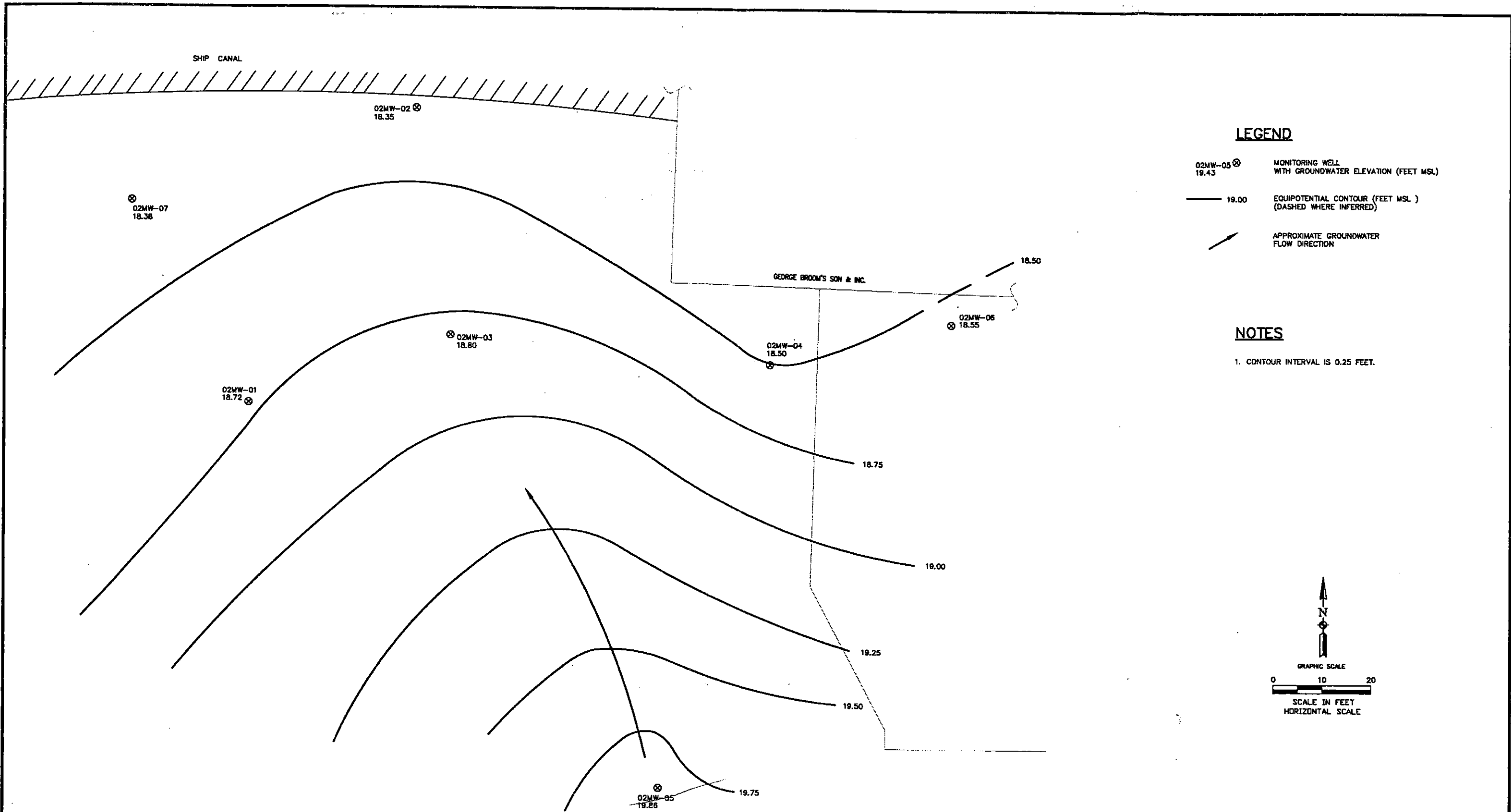
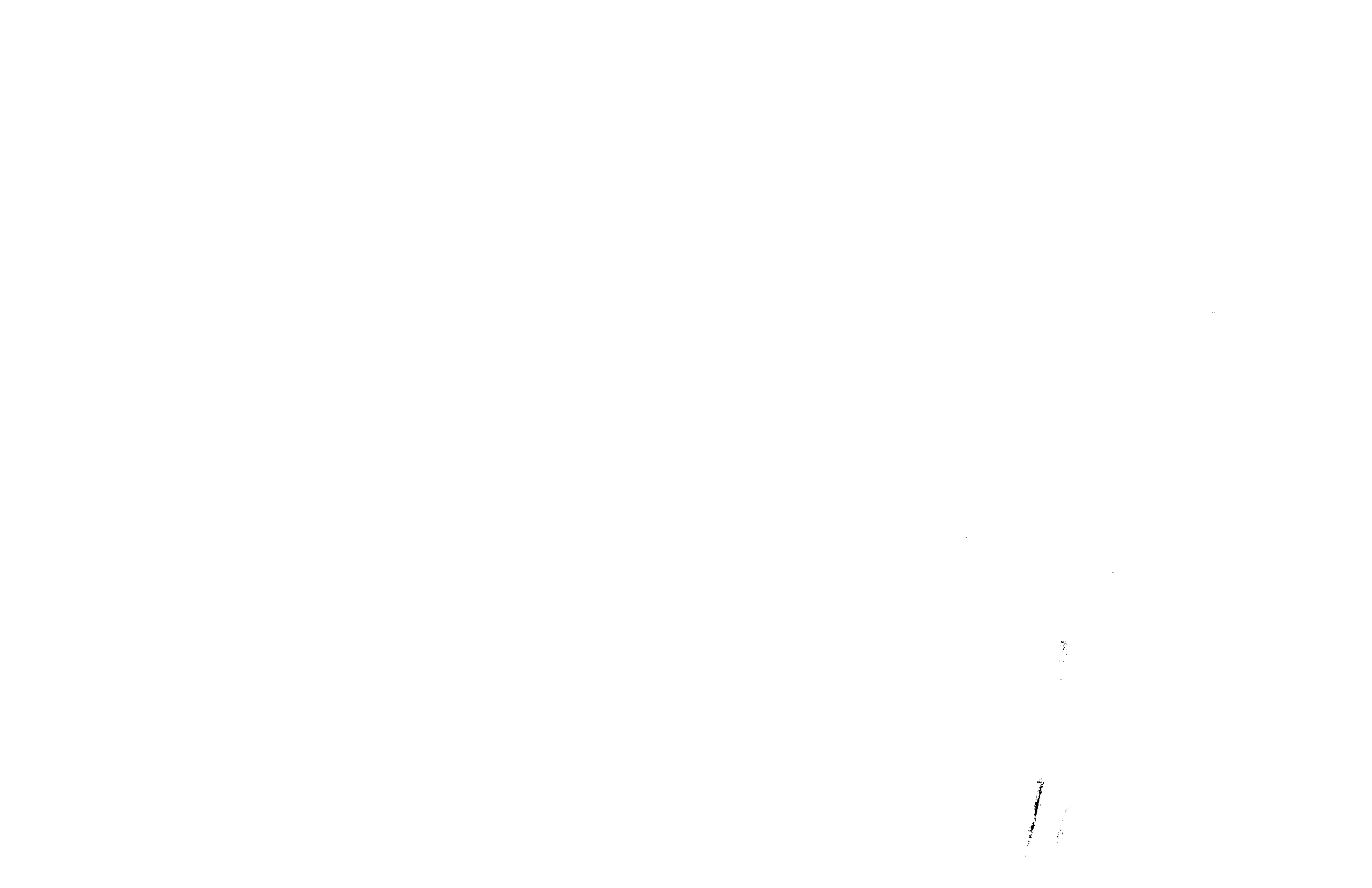
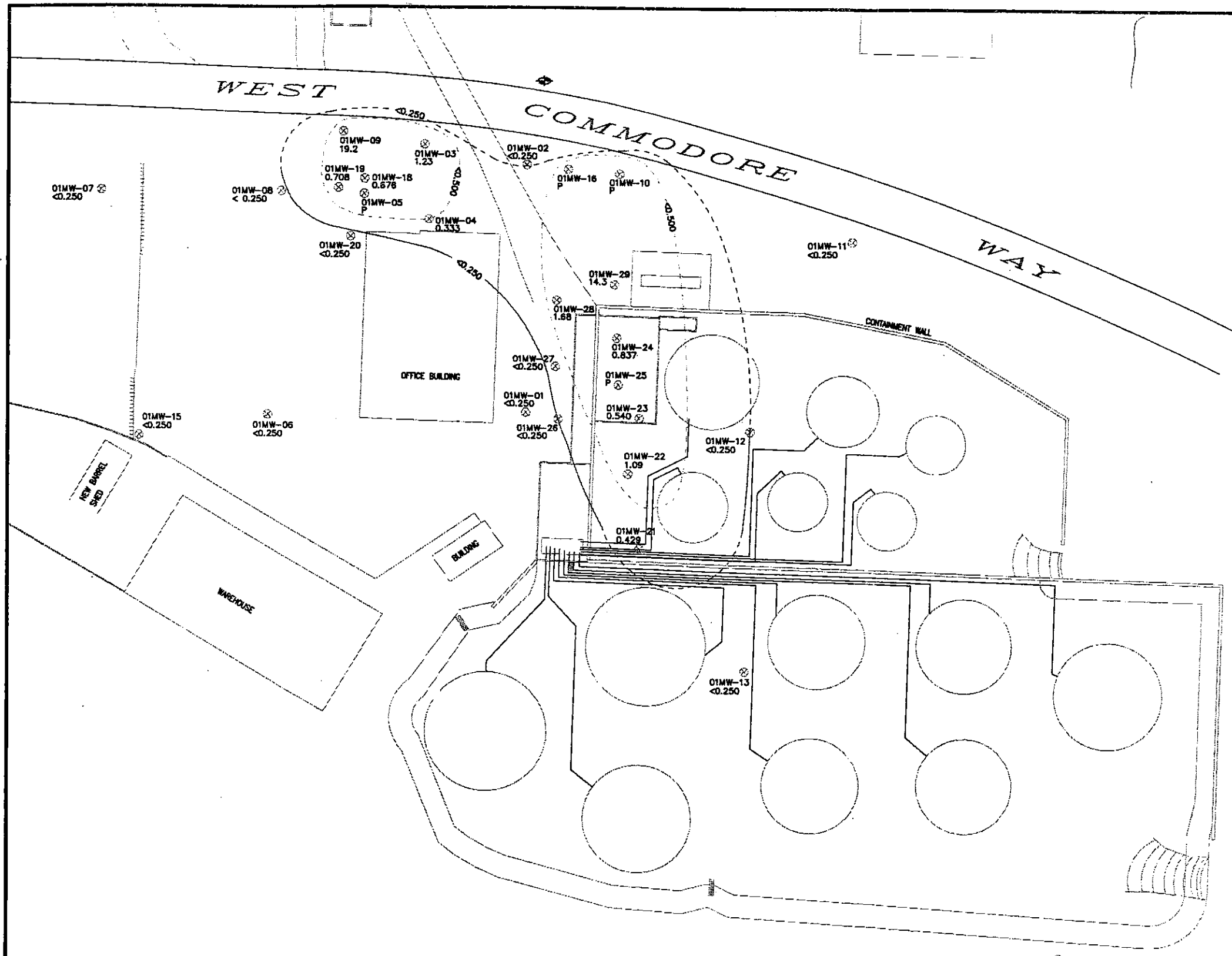


Figure 3-4
Location of Wells
and Potentiometric Surface at
2750 West Commodore Way,
July 12, 2004



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LEGEND

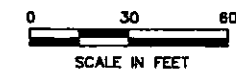
- ⊗ 01MW-13 <0.250 MONITORING WELL WITH CONCENTRATION (mg/L)
- - - - - MTCA METHOD A CLEANUP LEVEL (0.500 mg/L) (DASHED WHERE INFERRED)
- - - - - CONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- ⊕ SURVEY MONUMENT
- P PRODUCT

NOTES

1. CONCENTRATION CONTOURS ARE BASED ON ANALYTICAL RESULTS. PLEASE SEE TEXT FOR EXPLANATION OF RESULTS AND POTENTIAL EFFECTS OF OVERLAPPING AND CO-ELUTING PEAKS.



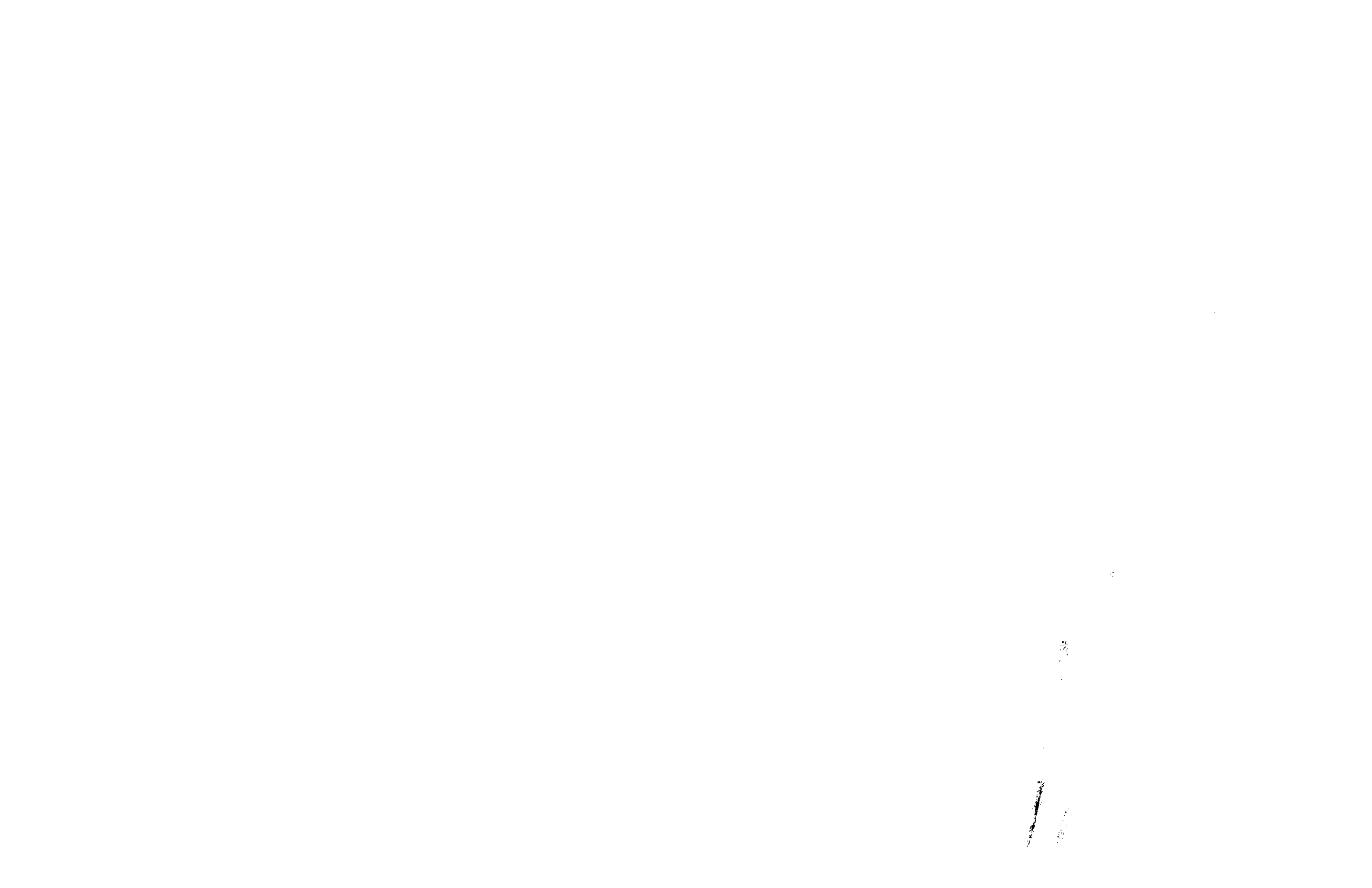
GRAPHIC SCALE



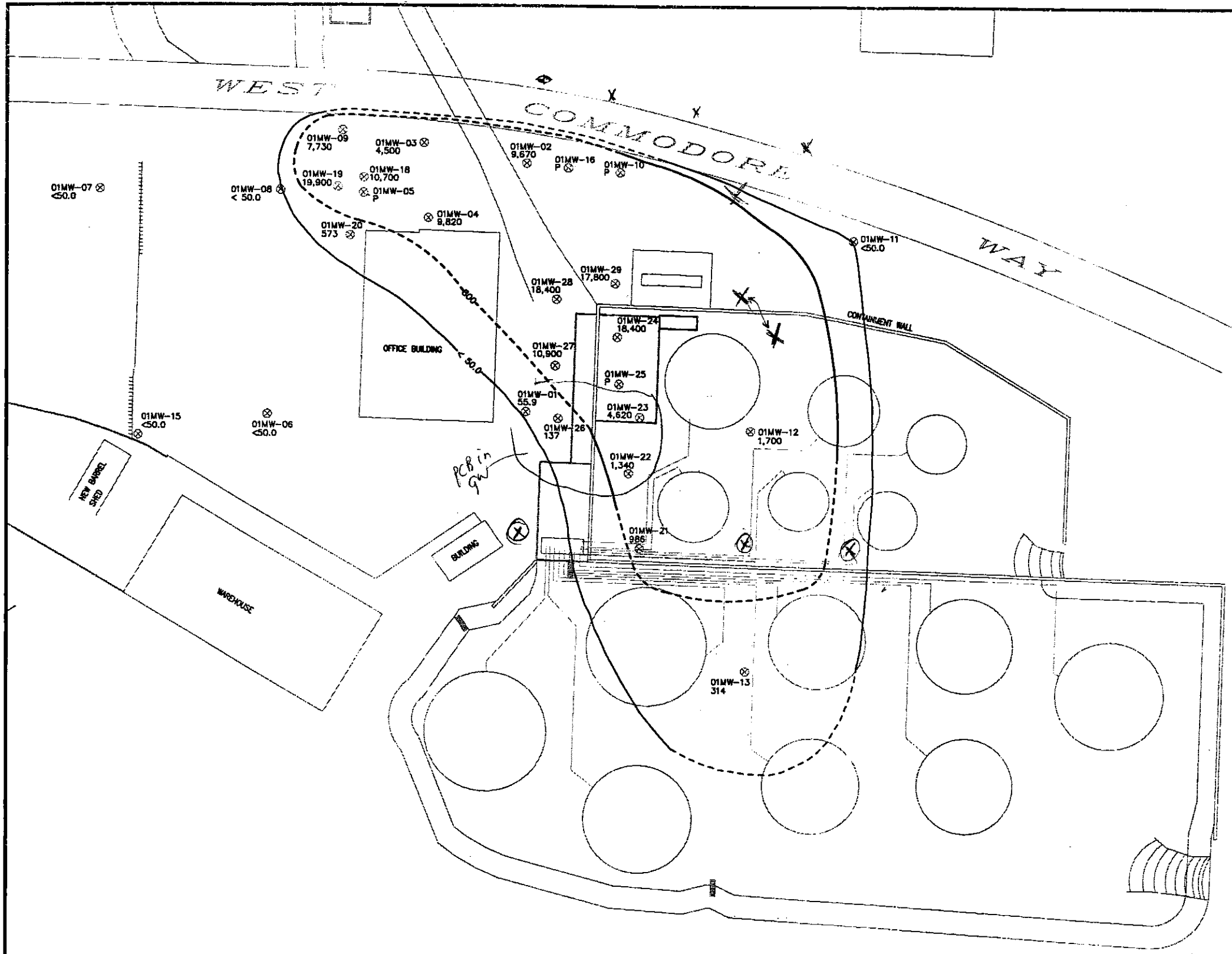
TETRA TECH FW, INC.

Figure 5-1
Diesel-Impacted Groundwater at
2737 West Commodore Way,
July 2004

CITY OF SEATTLE
TBM #9962 = EL. 79.61



I:\Projects\23063312\dwg\July 2004 - Quarter\ETIDFG5-2.dwg 8/24/2004 9:19:40 AM PST

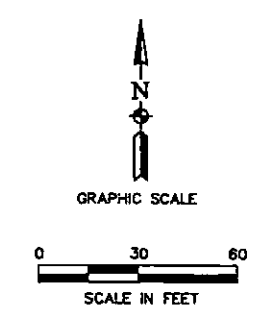


LEGEND

- ⊗ 01MW-13
167 MONITORING WELL WITH CONCENTRATION (µg/L)
- MTCA METHOD A CLEANUP LEVEL FOR GASOLINE WITH BENZENE PRESENT (800 µg/L) (DASHED WHERE INFERRED)
- CONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- ⊕ SURVEY MONUMENT
- P PRODUCT

NOTES

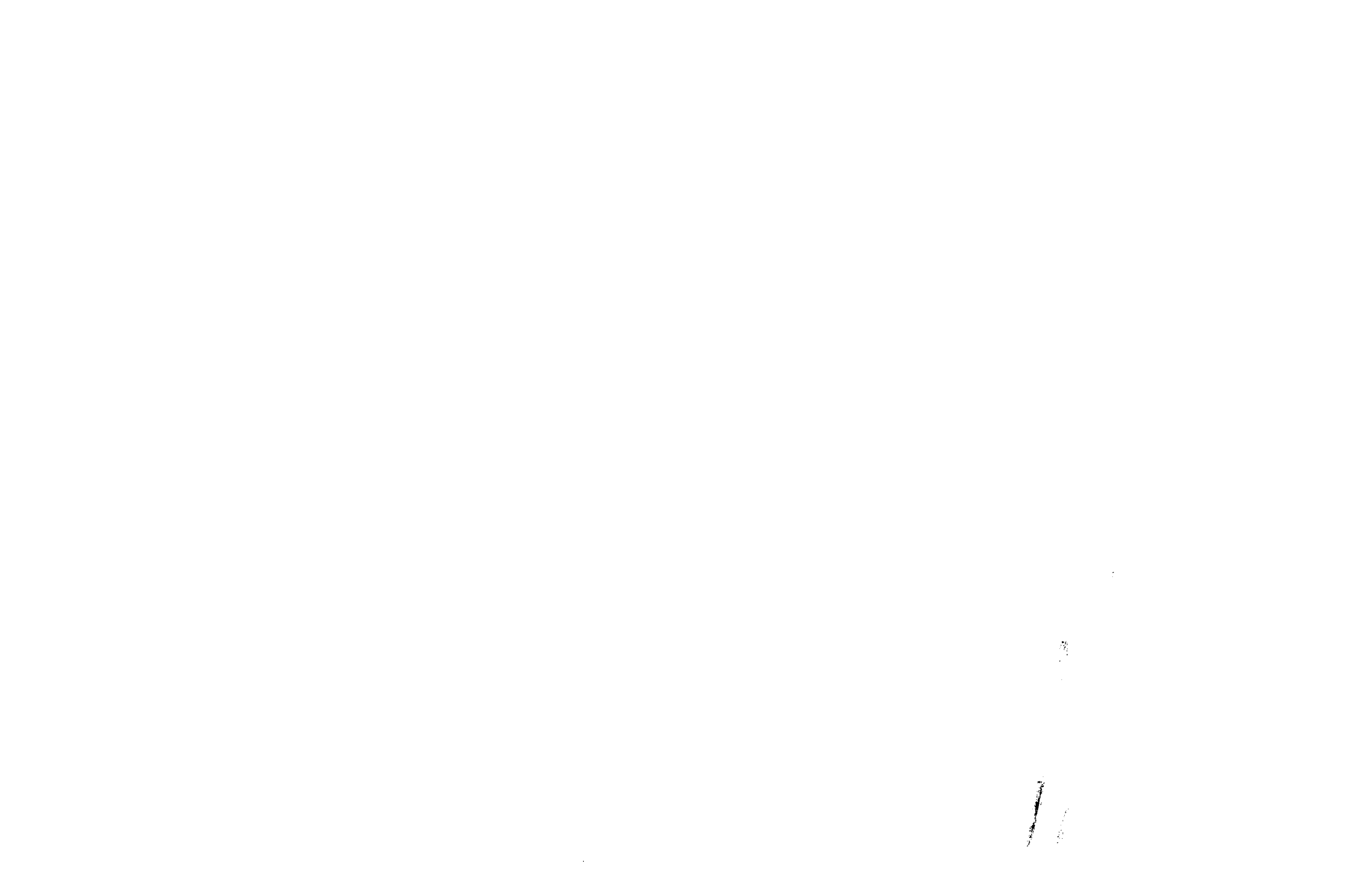
1. CONCENTRATION CONTOURS ARE BASED ON ANALYTICAL RESULTS. PLEASE SEE TEXT FOR EXPLANATION OF RESULTS AND POTENTIAL EFFECTS OF OVERLAPPING AND CO-ELUTING PEAKS.



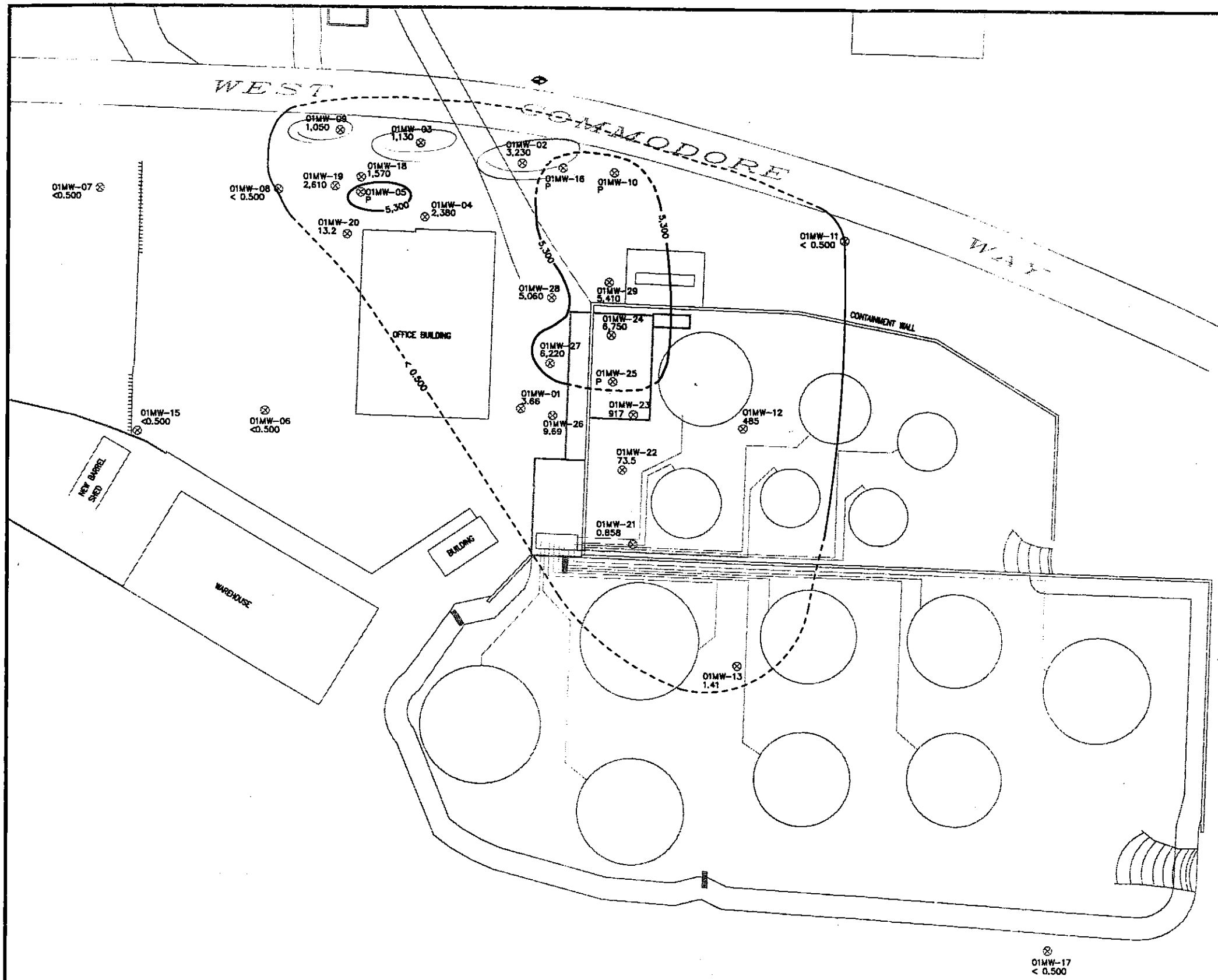
CITY OF SEATTLE
TBM #9962 = EL. 79.61



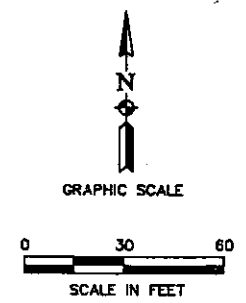
Figure 5-2
Gasoline-Impacted Groundwater at
2737 West Commodore Way,
July 2004



I:\Projects\23063312\dwg\July 2004 - Quarter\ETIDFG5-3.dwg 8/24/2004 9:13:30 AM PST



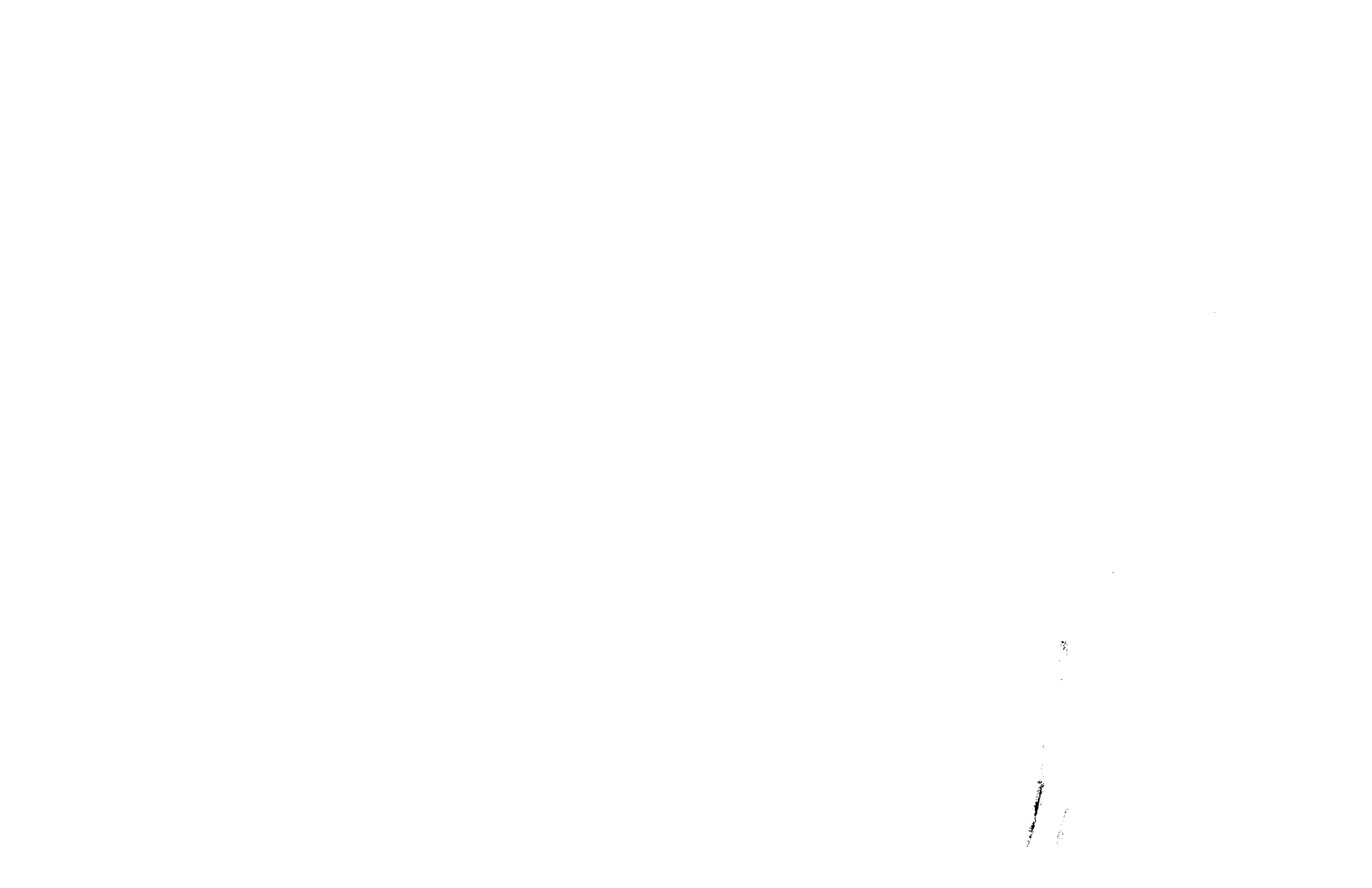
- LEGEND**
- ⊗ 01MW-13 0.775 MONITORING WELL WITH CONCENTRATION (µg/L)
 - NOAA SQUIRT VALUE (5,300 µg/L) (DASHED WHERE INFERRED)
 - CONCENTRATION CONTOUR (DASHED WHERE INFERRED)
 - ◆ SURVEY MONUMENT
 - P PRODUCT



CITY OF SEATTLE
TBM #9962 = EL. 79.61



Figure 5-3
Benzene-Impacted Groundwater at
2737 West Commodore Way,
July 2004



TABLES

1

Table 2-1. July 2004 Sampling Matrix

Well	NWTPH-Gx/BTEX	NWTPH-Dx	PCP	Sample Type
<i>2737 West Commodore Way</i>				
01MW-01	1	1	1	Environmental
01MW-02	1	1	na	Environmental
01MW-03	1	1	na	Environmental
01MW-04	1	1	na	Environmental
01MW-05	Sample not collected due to presence of free-phase product			
01MW-06	1	1	1	Environmental
01MW-07	1	1	na	Environmental
01MW-08	1	1	na	Environmental
01MW-09	1	1	1	Environmental
01MW-10	Sampled not collected due to insufficient groundwater			
01MW-11	1	1	na	Environmental
01MW-12	1	1	na	Environmental
01MW-13	1	1	na	Environmental
01MW-15	1	1	1	Environmental
01MW-16	Sampled not collected due to insufficient groundwater			
01MW-17	1	1	na	Environmental
01MW-18	1	1	1	Environmental
01MW-19	1	1	1	Environmental
01MW-20	1	1	1	Environmental
01MW-21	1	1	1	Environmental
01MW-22	1	1	1	Environmental
01MW-23	1	1	1	Environmental
01MW-24	1	1	1	Environmental
01MW-25	Sample not collected due to presence of free-phase product			
01MW-26	1	1	1	Environmental
01MW-27	1	1	1	Environmental
01MW-28	1	1	1	Environmental
01MW-28	1	1	1	Field Duplicate
01MW-29	1	1	1	Environmental
<i>2750 West Commodore Way</i>				
02MW-01	1	1	na	Environmental
02MW-02	1	1	na	Environmental
02MW-03	1	1	na	Environmental
02MW-04	1	1	na	Environmental
02MW-04	1	1	na	Field Duplicate
02MW-05	1	1	na	Environmental
02MW-06	1	1	na	Environmental
02MW-07	1	1	na	Environmental

Abbreviations and Acronyms:

BTEX – benzene, toluene, ethylbenzene, xylene
 Dx – diesel range hydrocarbons
 Gx – gasoline range hydrocarbons
 na – not included in analytical suite
 NWTPH – northwest total petroleum hydrocarbon
 PCP – pentachlorophenol

Time Oil Company
 Quarterly Groundwater Sampling Report for July 2004
 2737 and 2750 West Commodore Way

Table 3-1. Well Construction Details at West Commodore Way Properties

Well	Coordinate (WA State Plane)		Top of Casing Elevation (Feet msl)	Ground Elevation (Feet msl)	Total Depth of Boring (Feet bgs)	Total Depth of Well (Feet bgs)	Depth of Screen Interval (Feet bgs)	Elevation of Screen Interval (Feet msl)
	Northing (Feet)	Eastings (Feet)						
<i>2737 West Commodore Way</i>								
01MW-01	245454.603	1256198.248	46.48	46.76	25.00	25.25	10 - 25	36.76 - 21.76
01MW-02	245585.027	1256198.518	44.78	45.15	25.00	24.91	10 - 25	35.15 - 20.15
01MW-03	245597.585	1256160.493	44.35	44.75	25.20	25.15	10 - 25	34.75 - 19.75
01MW-04	245563.117	1256163.148	45.08	45.56	25.00	24.90	10 - 25	35.56 - 20.56
01MW-05	245569.311	1256114.025	45.40	45.77	25.00	24.88	10 - 25	35.77 - 20.77
01MW-06	245452.677	1256064.638	47.74	48.23	25.00	25.10	10 - 25	38.23 - 23.23
01MW-07	245570.711	1255975.885	45.17	45.53	30.00	28.17	15 - 30	30.53 - 15.53
01MW-08	245570.471	1256070.985	45.21	45.63	25.00	24.93	10 - 25	35.63 - 20.63
01MW-09	245602.062	1256103.039	43.91	44.37	25.00	24.70	10 - 25	34.37 - 19.37
01MW-10	245580.377	1256246.968	45.02	45.35	25.00	24.90	10 - 25	35.35 - 20.35
01MW-11	245545.081	1256368.920	46.10	46.45	30.00	29.90	15 - 30	31.45 - 16.45
01MW-12	245444.877	1256316.069	45.84	46.29	20.00	20.00	5 - 20	40.84 - 25.84
01MW-13	245317.347	1256313.287	46.36	46.81	20.00	19.88	15 - 20	31.81 - 26.81
01MW-15	245441.314	1255996.388	50.89	50.89	30.12	30.00	10 - 30	40.89 - 20.89
01MW-16	245582.687	1256220.015	44.95	44.95	22.50	20.00	10 - 20	34.95 - 24.95
01MW-17	245166.941	1256477.520	59.42	59.42	30.00	30.00	15 - 30	44.42 - 29.42
01MW-18	245577.28	1256114.23	45.18	45.68	26.50	25.00	5 - 20	40.68 - 25.68
01MW-19	245572.45	1256100.62	45.35	45.85	31.50	25.00	5 - 20	40.85 - 25.78
01MW-20	245546.99	1256107.08	46.27	46.77	26.50	25.00	5 - 20	41.77 - 26.77
01MW-21	245382.3	1256257.4	46.21	46.52	23.50	22.92	5 - 22	41.21 - 23.79
01MW-22	245422.2	1256251.7	46.11	46.47	25.00	24.70	5 - 24	41.11 - 21.92
01MW-23	245451.9	1256257.4	45.81	46.11	20.50	19.45	5 - 19	40.81 - 26.86
01MW-24	245494.0	1256245.7	na	44.59	21.00	19.40	5 - 19	39.59 - 25.69
01MW-25	245469.4	1256246.5	na	44.61	20.50	17.32	5 - 16	39.61 - 28.29
01MW-26	245451.1	1256215.0	46.24	46.71	20.50	19.85	5 - 19	41.24 - 27.39
01MW-27	245479.0	1256213.5	46.33	46.70	21.50	19.65	5 - 19	41.33 - 27.68
01MW-28	245513.8	1256214.2	45.54	46.30	25.50	24.61	5 - 24	40.54 - 21.93
01MW-29	245522.2	1256244.6	45.57	45.92	20.50	19.75	5 - 19	40.57 - 26.82
<i>2750 West Commodore Way</i>								
02MW-01	245789.704	1255985.066	24.19	24.72	20.00	19.60	10 - 20	15.22 - 5.22
02MW-02	245848.029	1256019.016	20.06	20.57	10.00	9.90	5 - 10	16.07 - 11.07
02MW-03	245801.020	1256026.193	27.86	28.41	20.00	19.75	10 - 20	18.91 - 8.91
02MW-04	245795.225	1256092.088	27.17	27.59	20.00	20.05	10 - 20	18.09 - 8.09
02MW-05	245706.854	1256069.207	36.59	37.05	35.00	33.85	20 - 35	17.55 - 2.55
02MW-06	245803.277	1256129.549	26.54	27.00	20.00	19.97	10 - 20	17.50 - 7.50
02MW-07	245828.584	1255960.724	20.85	21.39	12.00	12.20	2 - 12	19.89 - 9.89

Abbreviations and Acronyms:

bgs - below ground surface
 msl - mean sea level
 na - no data available
 WA - Washington

Time Oil Company
 Quarterly Groundwater Sampling Report for July 2004
 2737 and 2750 West Commodore Way

Table 3-2. Water Levels Measured at West Commodore Way Properties on July 12, 2004

Well	Top of Casing Elevation (Feet msl)	Ground Elevation (Feet msl)	Total Depth of Well (Feet bgs)	Depth to Product (Feet bgs)	Depth to Water (Feet bgs)	Product Thickness (Feet)	Water Elevation (Feet msl)
<i>2737 West Commodore Way</i>							
01MW-01	46.48	46.76	25.25	np	14.38	0.00	32.10
01MW-02	44.78	45.15	24.91	np	15.96	0.00	28.82
01MW-03	44.35	44.75	25.15	np	15.50	0.00	28.85
01MW-04	45.08	45.56	24.90	np	15.46	0.00	29.62
01MW-05 ^U	45.40	45.77	24.88	15.47	19.57	4.10	29.11
01MW-06	47.74	48.23	25.10	np	16.04	0.00	31.70
01MW-07	45.17	45.53	28.17	np	23.48	0.00	21.69
01MW-08	45.21	45.63	24.93	np	16.76	0.00	28.45
01MW-09 ^U	43.91	44.37	24.70	na	16.78	na	27.13
01MW-10	45.02	45.35	24.90	23.32	24.03	0.71	21.56
01MW-11	46.10	46.45	29.90	np	22.78	0.00	23.32
01MW-12	45.84	46.29	20.00	np	7.17	0.00	38.67
01MW-13	46.36	46.81	19.88	np	6.65	0.00	39.71
01MW-15	50.89	50.89	30.00	np	22.57	0.00	28.32
01MW-16	44.95	44.95	20.00	17.93	19.20	1.27	26.77
01MW-17	59.42	59.42	30.00	np	19.17	0.00	40.25
01MW-18	45.18	45.68	25.00	np	16.71	0.00	28.47
01MW-19	45.35	45.85	25.00	np	16.79	0.00	28.56
01MW-20	46.27	46.77	25.00	np	16.65	0.00	29.62
01MW-21	46.21	46.52	25.00	np	6.34	0.00	39.87
01MW-22	46.11	46.47	25.00	7.15	7.17	0.02	38.96
01MW-23 ^U	45.81	46.11	25.00	7.64	7.74	0.10	38.15
01MW-24	na	44.59	25.00	7.85	8.15	0.30	na
01MW-25	na	44.61	25.00	6.83	9.24	2.41	na
01MW-26	46.24	46.71	25.00	np	14.07	0.00	32.17
01MW-27	46.33	46.7	25.00	np	14.68	0.00	31.65
01MW-28	45.54	46.3	25.00	14.13	15.51	1.38	31.13
01MW-29 ^U	45.57	45.92	25.00	15.26	15.32	0.06	30.30
<i>2750 West Commodore Way</i>							
02MW-01	24.19	24.72	19.60	np	5.47	0.00	18.72
02MW-02	20.06	20.57	9.90	np	1.71	0.00	18.35
02MW-03	27.86	28.41	19.75	np	9.06	0.00	18.80
02MW-04	27.17	27.59	20.05	np	8.67	0.00	18.50
02MW-05	36.59	37.05	33.85	np	16.73	0.00	19.86
02MW-06	26.54	27.00	19.97	np	7.99	0.00	18.55
02MW-07	20.85	21.39	12.20	np	2.47	0.00	18.38

Abbreviations and Acronyms:

bgs – below ground surface
 msl – mean sea level
 na – water level was not determined due to presence of product
 np – no product detected

Notes:

^U Water elevation may be influenced by passive product skimmer installed in the well.

Time Oil Company
 Quarterly Groundwater Sampling Report for July 2004
 2737 and 2750 West Commodore Way

Table 3-3. Cumulative Groundwater Elevations, October 2003 – July 2004

Well	October 2003		January 2004		April 2004		July 2004	
	Fuel Thickness (Feet)	Water Elevation (Feet msl)	Fuel Thickness (Feet)	Water Elevation (Feet msl)	Fuel Thickness (Feet)	Water Elevation (Feet msl)	Fuel Thickness (Feet)	Water Elevation (Feet msl)
<i>2737 West Commodore Way</i>								
01MW-01	0.00	31.56	0.00	32.69	0.00	32.55	0.00	32.10
01MW-02	0.00	28.23	0.00	30.78	0.00	29.29	0.00	28.82
01MW-03	0.00	28.32	0.00	31.27	0.00	29.32	0.00	28.85
01MW-04	0.00	29.04	0.00	32.30	0.00	30.16	0.00	29.62
01MW-05 ^{1/}	1.90	27.79	na	na	4.10	29.11	4.10	29.11
01MW-06	0.00	31.11	0.00	32.24	0.00	32.08	0.00	31.70
01MW-07	0.00	21.72	0.00	21.67	0.00	21.68	0.00	21.69
01MW-08	0.00	27.97	0.00	29.66	0.00	28.81	0.00	28.45
01MW-09 ^{1/}	na	26.09	na	na	0.00	27.13	na	27.13
01MW-10	0.49	20.91	1.65	22.84	0.90	21.76	0.71	21.56
01MW-11	0.00	23.07	0.00	23.50	0.00	23.38	0.00	23.32
01MW-12	0.00	37.33	0.00	40.69	0.00	40.32	0.00	38.67
01MW-13	0.00	38.78	0.00	40.64	0.00	41.18	0.00	39.71
01MW-15	0.00	28.28	0.00	28.16	0.00	28.16	0.00	28.32
01MW-16	1.36	26.30	2.43	27.73	2.24	27.10	1.27	26.77
01MW-17	0.00	39.55	0.00	41.02	0.00	41.78	0.00	40.25
01MW-18	0.00	28.03	0.00	29.69	0.00	28.88	0.00	28.47
01MW-19	0.00	28.07	0.00	30.02	0.00	28.97	0.00	28.56
01MW-20	0.00	29.05	0.00	31.19	0.00	30.13	0.00	29.62
01MW-21	0.00	38.52	0.00	39.70	0.00	39.99	0.00	39.87
01MW-22	0.08	37.74	0.20	39.41	0.50	40.13	0.02	38.96
01MW-23 ^{1/}	na	na	na	na	0.05	40.04	0.10	38.15
01MW-24	0.11	na	0.39	na	0.15	na	0.30	na
01MW-25	na	na	na	na	na	na	2.41	na
01MW-26	0.00	31.54	0.00	32.73	0.00	32.03	0.00	32.17
01MW-27	0.00	30.96	0.00	32.43	0.00	32.70	0.00	31.65
01MW-28	0.29	30.66	0.93	32.20	1.08	31.62	1.38	31.13
01MW-29 ^{1/}	0.01	29.57	na	na	0.03	31.29	0.06	30.30
<i>2750 West Commodore Way</i>								
02MW-01	0.00	17.91	0.00	19.22	0.00	19.01	0.00	18.72
02MW-02	0.00	17.21	0.00	18.03	0.00	18.55	0.00	18.35
02MW-03	0.00	17.90	0.00	19.37	0.00	19.10	0.00	18.80
02MW-04	0.00	17.35	0.00	18.31	0.00	18.39	0.00	18.50
02MW-05	0.00	18.05	0.00	19.43	0.00	19.55	0.00	19.86
02MW-06	0.00	17.35	0.00	18.23	0.00	18.15	0.00	18.55
02MW-07	0.00	17.17	0.00	18.75	0.00	18.79	0.00	18.38

Abbreviations and Acronyms:

msl – mean sea level

na – water level was not determined due to presence of product

Notes:

^{1/} Water elevation may be influenced by passive product skimmer installed in the well.

Time Oil Company
 Quarterly Groundwater Sampling Report for July 2004
 2737 and 2750 West Commodore Way

Table 4-1. Well Sampling Parameters, July 2004

Well	pH	ORP (mv)	Temperature (Celsius)	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	Turbidity (NTU)
<i>2737 West Commodore Way</i>						
01MW-01	6.79	-13.6	15.24	0.10	443	na
01MW-02	6.74	-124.5	15.91	1.07	570	na
01MW-03	6.61	-95.6	15.52	0.84	297	na
01MW-04	6.37	-54.7	15.66	0.44	291	na
01MW-06	7.22	-119.6	15.19	0.12	785	na
01MW-07	6.79	-62.1	16.02	0.38	703	4.1
01MW-08	7.01	-109.8	16.01	0.65	757	0.2
01MW-09	6.80	-121.3	16.58	0.93	407	13.3
01MW-11	7.12	-145.2	14.91	1.66	552	na
01MW-12	6.57	-72.4	14.99	0.01	701	na
01MW-13	6.61	-39.9	15.13	na	619	1.1
01MW-15	7.12	-118.9	13.59	0.16	630	na
01MW-17	7.28	261.5	13.87	na	761	2.2
01MW-18	6.59	-105	17.32	1.01	534	na
01MW-19	6.67	-124.6	17.09	0.71	481	0.3
01MW-20	6.53	-70.8	16.83	0.19	232	7.4
01MW-21	6.57	-102.4	14.44	0.02	437	na
01MW-22	6.76	-55.4	13.67	0.01	369	na
01MW-23	6.63	-133.6	14.72	0.04	512	na
01MW-24	6.56	-83.8	15.72	0.01	659	na
01MW-26	6.78	-73.6	14.26	0.08	465	na
01MW-27	6.72	-99.8	14.56	0.07	663	na
01MW-28	6.73	-119.9	15.53	0.02	656	3.0
01MW-29	6.66	-93.5	15.02	0.01	874	83.2
<i>2750 West Commodore Way</i>						
02MW-01	6.42	-45.6	14.48	0.81	482	17.6
02MW-02	6.59	-79.8	16.08	0.31	475	0.0
02MW-03	6.47	-17.0	14.19	1.41	792	na
02MW-04	6.58	-57.6	14.64	1.80	640	na
02MW-05	6.47	-103.0	14.96	1.22	662	1.8
02MW-06	6.45	-153.6	12.96	1.03	361	na
02MW-07	6.52	-84.4	18	0.29	468	3.6

Abbreviations and Acronyms:

mg/L – milligrams per liter
 mS/cm – millisiemens per centimeter
 mv – millivolts
 na – value not recorded due to meter malfunction
 NTU – nephelometric turbidity unit

Time Oil Company
 Quarterly Groundwater Sampling Report for July 2004
 2737 and 2750 West Commodore Way

Table 4-2. Groundwater Results from 2737 West Commodore Way, July 2004

Sample	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)
				800 ^{3/}	1,000 ^{4/}				
Action Level	15 ^{1/}	0.5 ^{2/}	0.5 ^{2/}	800 ^{3/}	1,000 ^{4/}	5,300 ^{5/}	17,500 ^{5/}	32,000 ^{5/}	1,000 ^{2/}
01MW-01	8.94	< 0.250	< 0.500	55.9		3.66	0.766	< 0.500	1.80
01MW-02	na	< 0.250	< 0.500	9,670		3,230	97.0	146	441
01MW-03	na	1.23	0.938	4,500		1,130	60.8	41.4	82.5
01MW-04	na	0.333	< 0.500	9,820		2,380	570	236	828
01MW-06	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00
01MW-07	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00
01MW-08	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00
01MW-09	< 0.500	19.2	< 0.500	7,730		1,050	48.0	232	942
01MW-11	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00
01MW-12	na	< 0.250	< 0.500	1,700		485	5.90	11.3	15.8
01MW-13	na	< 0.250	< 0.500	314		1.41	< 0.500	< 0.500	2.54
01MW-15	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00
01MW-17	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00
01MW-18	< 0.500	0.676	< 0.500	10,700		1,570	124	283	1,360
01MW-19	1.32	0.708	< 0.500	19,900		2,610	945	522	3,190
01MW-20	< 0.500	< 0.250	< 0.500	573		13.2	3.86	21.9	29.5
01MW-21	3.51	0.429	< 0.500	986		0.858	< 0.500	10.6	1.32
01MW-22	191	1.09	< 0.500	1,340		73.5	0.943	4.71	10.2
01MW-23	350	0.540	< 0.500	4,620		917	10.0	61.4	139
01MW-24	< 0.500	0.837	< 0.500	18,400		6,750	35.0	261	816
01MW-26	40.5	< 0.250	< 0.500	137		9.69	0.706	3.56	4.92
01MW-27	50.7	< 0.250	< 0.500	10,900		6,220	43.9	70.4	50.0
01MW-28A	2.44	1.44	< 0.500	17,900		5,060	1,910	343	1,230
01MW-28B	2.28	1.68	< 0.500	18,400		5,030	1,810	355	1,250
RPD	7%	15%	nc	3%		1%	5%	3%	2%
01MW-29	9.11	14.3	< 0.500	17,800		5,410	167	256	718

Abbreviations and acronyms:

mg/L – milligram per liter
 µg/L – microgram per liter
 MTCA – Model Toxics Control Act
 NOAA – National Oceanic and Atmospheric Administration
 na – no analysis requested
 nc – not calculated
 RPD – relative percent difference
 SQiRT™ – Screening Quick Reference Table
 < symbol indicates result is less than reporting limit (in parenthesis)

Notes:

Results above action levels in bold and italics
^{1/}NOAA SQiRT™ value for freshwater continuous concentration
^{2/}MTCA Method A
^{3/}MTCA Method A gasoline range with benzene present
^{4/}MTCA Method A gasoline range without benzene present
^{5/}NOAA SQiRT™ value for freshwater maximum concentration

Table 4-3. Groundwater Results from 2750 West Commodore Way, July 2004

Sample	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
Action Level	0.5 ^{2/}	0.5 ^{2/}	800 ^{3/} 1,000 ^{4/}	5,300 ^{5/}	17,500 ^{5/}	32,000 ^{5/}	1,000 ^{2/}
02MW-01	< 0.250	< 0.500	< 50.0	< 0.791	< 0.500	< 0.500	< 1.00
02MW-02	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00
02MW-03	< 0.250	< 0.500	< 50.0	< 0.718	< 0.500	< 0.500	< 1.00
02MW-04A	< 0.250	< 0.500	4,800	35.9	54.5	308	584
02MW-04B	< 0.250	< 0.500	4,800	34.2	54.5	305	570
RPD	<i>nc</i>	<i>nc</i>	0%	5%	0%	1%	2%
02MW-05	< 0.250	< 0.500	209	< 0.500	< 0.500	< 0.500	< 1.00
02MW-06	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00
02MW-07	< 0.250	< 0.500	131	< 0.500	< 0.500	< 0.500	1.52

Abbreviations and acronyms:

mg/L – milligram per liter

µg/L – microgram per liter

MTCA – Model Toxics Control Act

NOAA – National Oceanic and Atmospheric Administration

nc – not calculated

RPD – relative percent difference

SQuiRT™ – Screening Quick Reference Table

< symbol indicates result is less than reporting limit (in parenthesis)

Notes:

Results above action levels in bold and italics

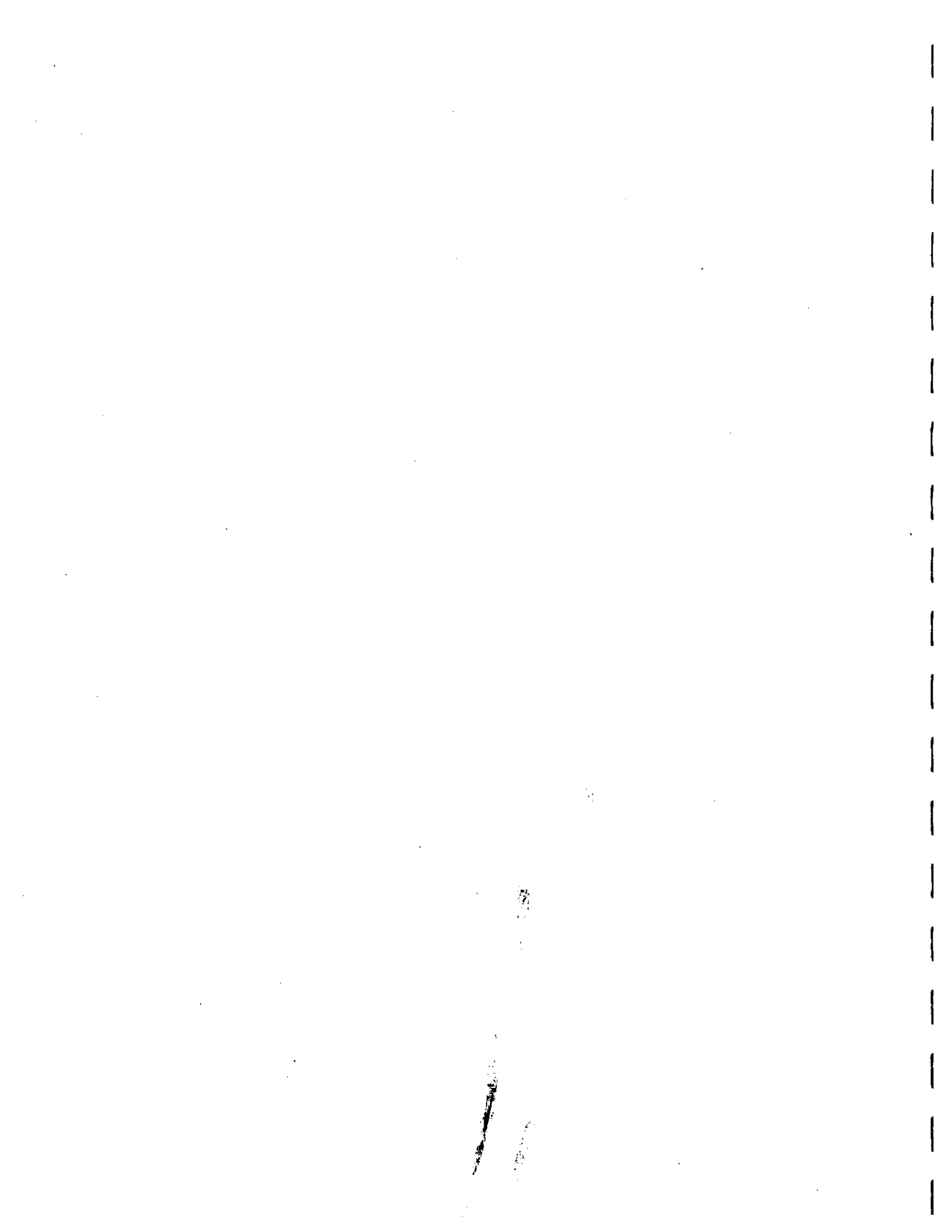
^{1/}NOAA SQiRT™ value for freshwater continuous concentration

^{2/}MTCA Method A

^{3/} MTCA Method A gasoline range with benzene present

^{4/} MTCA Method A gasoline range without benzene present

^{5/} NOAA SQiRT™ value for freshwater maximum concentration



Time Oil Company
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 2737 and 2750 West Commodore Way

Table 5-1. Cumulative Groundwater Results, July 2001 – July 2004, 2737 West Commodore Way

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ¹⁷	0.5 ²	0.5 ²	800 ³	5,300 ⁴	17,500 ⁵	32,000 ⁶	1,000 ⁷	20 ⁸	15 ⁹	15 ⁹
01MW-01	Jul-01	3.94	1.11	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	na
01MW-01	Oct-01	3.55	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-01	Jan-02	2.02	<0.250	<0.500	51.5	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-01	Apr-02	2.84	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-01	Jul-02	6.84	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-01A	Oct-02	6.37	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-01B	Oct-02	7.13	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-01A	Jan-03	7.33	<0.250	<0.500	<50.0	<1.00	<1.00	<1.00	<3.00	<5.00	na	na
01MW-01B	Jan-03	6.06	<0.250	<0.500	<50.0	<1.00	<1.00	<1.00	<3.00	<5.00	na	na
01MW-01A	Apr-03	5.57	0.429	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-01B	Apr-03	8.04	0.454	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-01	Aug-03	6.06	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-01	Jan-04	11.2	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-01A	Apr-04	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-01B	Apr-04	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-01	Jul-04	8.94	<0.250	<0.500	55.9	3.66	0.766	<0.500	1.80	na	na	na
01MW-02	Jul-01	na	5.01	<1.50	14,800	6,900	162	262	1,110	na	<1.00	na
01MW-02	Oct-01	<0.500	0.264	<0.500	10,100	4,290	71.2	159	741	na	<1.00	<1.00
01MW-02	Jan-02	<0.500	0.330	<0.500	13,000	3,280	645	373	1,610	na	<1.00	<1.00
01MW-02	Apr-02	<0.500	0.479	<0.500	27,500	11,200	658	340	1,390	na	<1.00	<1.00
01MW-02A	Jul-02	<0.500	0.377	<0.500	17,500	7,060	250	230	970	na	<1.00	<1.00
01MW-02B	Jul-02	<0.500	0.294	<0.500	17,600	6,380	230	212	892	na	<1.00	<1.00
01MW-02	Oct-02	na	0.412	<0.500	10,700	2,780	888	303	1,580	na	na	na
01MW-02	Jan-03	na	0.502	<0.500	31,100	9,860	988	278	1,570	<500	na	na
01MW-02	Apr-03	na	0.817	<0.500	11,600	4,630	218	229	561	na	na	na
01MW-02	Aug-03	na	1.62	<0.500	14,800	5,540	133	200	713	na	na	na
01MW-02	Jan-04	na	<0.250	<0.500	9,820	3,900	295	312	1,030	na	na	na
01MW-02	Jan-04	na	<0.250	<0.500	10,500	3,950	307	300	1,050	na	na	na
01MW-02	Apr-04	na	0.428	<0.500	21,800	8,680	213	310	857	na	na	na
01MW-02	Jul-04	na	<0.250	<0.500	9,670	3,230	97.0	146	441	na	na	na

Time Oil Company
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 2737 and 2750 West Commodore Way

Table 5-1. Cumulative Groundwater Results, July 2001 – July 2004, 2737 West Commodore Way (continued)

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ^U	0.5 ^U	0.5 ^U	800 ^V	5,300 ^V	17,500 ^V	32,000 ^V	1,000 ^V	20 ^V	15 ^V	15 ^V
01MW-03	Jul-01	na	2.84	<1.50	24,500	11,900	238	414	515	na	<1.00	na
01MW-03A	Oct-01	<0.500	0.491	<0.500	18,500	11,700	82.1	237	138	na	<1.00	<1.00
01MW-03B	Oct-01	2.24	0.379	<0.500	9,200	4,330	39.9	114	66.3	na	<1.00	<1.00
01MW-03A	Jan-02	<0.500	0.443	<0.500	1,070	98.8	4.56	7.94	9.53	na	<1.00	<1.00
01MW-03B	Jan-02	<0.500	0.440	<0.500	1,070	98.3	4.45	8.28	9.36	na	<1.00	<1.00
01MW-03A	Apr-02	<0.500	0.427	<0.500	753	50.8	3.68	9.85	9.23	na	<1.00	<1.00
01MW-03B	Apr-02	<0.500	0.463	<0.500	751	62.7	4.65	12.2	11.1	na	1.17	<1.00
01MW-03	Jul-02	<0.500	0.512	<0.500	21,000	8,990	416	324	588	na	<1.00	<1.00
01MW-03	Oct-02	na	0.897	<0.500	18,000	8,350	97.5	244	671	na	na	na
01MW-03	Jan-03	na	<0.250	<0.500	618	170	<5.00	<5.00	<15.0	<25.0	na	na
01MW-03	Apr-03	na	0.879	<0.500	1,070	135	7.12	<2.50	12.7	na	na	na
01MW-03	Aug-03	na	2.09	<0.500	31,500	13,900	232	355	449	na	na	na
01MW-03	Jan-04	na	0.404	<0.500	1,040	302	10.1	7.09	17.3	na	na	na
01MW-03	Apr-04	na	0.508	<0.500	1,060	83.5	4.64	2.56	12.1	na	na	na
01MW-03	Jul-04	na	1.23	0.938	4,500	1,130	60.8	41.4	82.5	na	na	na
[REDACTED SECTION]												
01MW-04	Jul-01	na	1.79	<1.50	6,460	1,210	204	134	1,470	na	<1.00	na
01MW-04	Oct-01	<0.500	0.398	<0.500	4,020	68.1	82.3	261	1,130	na	<1.00	<1.00
01MW-04	Jan-02	<0.500	<0.250	<0.500	5,920	<25.0	123	486	2,030	na	<1.00	<1.00
01MW-04	Apr-02	<0.500	<0.250	<0.500	840	<1.25	10.7	76	342	na	<1.00	<1.00
01MW-04	Jul-02	<0.500	<0.250	<0.500	17,300	4,130	1,360	309	1,470	na	<1.00	<1.00
01MW-04	Oct-02	na	na	na	na	na	na	na	na	na	na	na
01MW-04	Aug-03	<0.500	1.90	<0.500	1,840	1,190	155	51.7	141	na	<1.00	<1.00
01MW-04	Jul-04	na	0.333	<0.500	9,820	2,380	570	236	828	na	<1.00	<1.00
[REDACTED SECTION]												
01MW-06	Jul-01	2.17	0.718	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	na
01MW-06	Oct-01	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-06	Jan-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-06	Apr-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-06	Jul-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00

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 2737 and 2750 West Commodore Way

Table 5-1. Cumulative Groundwater Results, July 2001 – July 2004, 2737 West Commodore Way (continued)

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ^U	0.5 ^U	0.5 ^U	800 ^U 1,000 ^U	5,300 ^U	17,500 ^U	32,000 ^U	1,000 ^U	20 ^U	15 ^U	15 ^U
01MW-06	Oct-02	na	na	na	na	na	na	na	na	na	na	na
01MW-06	Aug-03	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-06	Jul-04	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
[REDACTED]												
01MW-07	Jul-01	na	1.45	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	na
01MW-07	Oct-01	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	1.11	<1.00
01MW-07	Jan-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-07	Apr-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-07	Jul-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-07	Oct-02	na	na	na	na	na	na	na	na	na	na	na
01MW-07	Aug-03	na	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-07	Jul-04	na	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
[REDACTED]												
01MW-08	Jul-01	na	0.662	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	na
01MW-08	Oct-01	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-08	Jan-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-08	Apr-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-08	Jul-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-08	Oct-02	na	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-08	Jan-03	na	<0.250	<0.500	<50.0	<1.00	<1.00	<1.00	<3.00	<5.00	na	na
01MW-08	Apr-03	na	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-08	Aug-03	na	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-08	Jan-04	na	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-08	Apr-04	na	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-08	Jul-04	na	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
[REDACTED]												
01MW-09	Jul-01	na	5.72	<0.500	1,830	213	114	48.1	230	na	<1.00	<1.00
01MW-09	Oct-01	<0.500	0.336	<0.500	6,940	1,030	422	247	1,250	na	1.16	<1.00
01MW-09	Jan-02	<0.500	<0.250	<0.500	480	67.2	32.4	17.6	81.1	na	1.01	3.58
01MW-09	Apr-02	<0.500	<0.250	<0.500	860	134	37	25.0	106	na	1.16	<1.00

Time Oil Company
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 2737 and 2750 West Commodore Way

Table 5-1. Cumulative Groundwater Results, July 2001 – July 2004, 2737 West Commodore Way (continued)

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ^U	0.3 ^U	0.5 ^U	800 ^U	5,300 ^U	17,500 ^U	32,000 ^U	1,000 ^U	20 ^U	15 ^U	15 ^U
01MW-09	Jul-02											
01MW-09	Oct-02											
No Sample Collected Due to Product												
No Sample Collected Due to Product												
01MW-09	Apr-03	na	1.13	< 0.500	8,370	1,140	690	221	1,070	na	na	na
01MW-09	Aug-03	na	8.63	< 0.500	11,400	1,370	335	314	1,500	na	na	na
01MW-09	Jan-04	na	0.451	< 0.500	937	340	10.4	12.2	47.6	na	na	na
01MW-09	Apr-04	na	3.92	< 0.500	16,200	3,310	183	573	2,580	na	na	na
01MW-09	Jul-04	< 0.500	19.2	< 0.500	7,730	1,050	48.0	232	942	na	na	na
No Sample Collected Due to Product												
01MW-11	Jul-01	na	1.53	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	na
01MW-11	Oct-01	< 0.500	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	< 1.00
01MW-11	Jan-02	< 0.500	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	< 1.00
01MW-11	Apr-02	< 0.500	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	< 1.00
01MW-11	Jul-02	< 0.500	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	< 1.00
01MW-11	Oct-02	na	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-11	Jan-03	na	< 0.250	< 0.500	< 50.0	< 1.00	< 1.00	< 1.00	< 3.00	< 5.00	na	na
01MW-11	Apr-03	na	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-11	Aug-03	na	0.294	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-11	Jan-04	na	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-11	Apr-04	na	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-11	Jul-04	na	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
No Sample Collected Due to Product												
01MW-12	Jul-01	na	6.55	< 1.50	1,350	482	8.84	14.0	26.4	na	< 1.00	na
01MW-12	Oct-01	1.68	6.731	< 0.500	1,300	385	9.22	14.0	24.8	na	< 1.00	< 1.00
01MW-12	Jan-02	< 0.500	< 0.250	< 0.500	1,130	360	8.11	11.7	22.1	na	< 1.00	< 1.00
01MW-12	Apr-02	< 0.500	< 0.250	< 0.500	1,600	545	7.37	11.9	21.7	na	< 1.00	< 1.00
01MW-12	Jul-02	< 0.500	< 0.250	< 0.500	1,720	671	9.65	15.8	24.9	na	< 1.00	< 1.00
01MW-12	Oct-02	na	< 0.250	< 0.500	1,710	619	7.70	9.31	18.0	na	na	na
01MW-12	Jan-03	na	< 0.250	< 0.500	1,410	295	< 10.0	11.8	< 30.0	< 50.0	na	na
01MW-12	Apr-03	na	4.22	< 0.500	1,480	417	5.89	10.3	17.1	na	na	na
01MW-12	Aug-03	na	4.09	< 0.500	1,430	583	6.68	11.7	17.4	na	na	na

Time Oil Company
 Quarterly Groundwater Sampling Report for July 2004
 2737 and 2750 West Commodore Way

Table 5-1. Cumulative Groundwater Results, July 2001 – July 2004, 2737 West Commodore Way (continued)

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ^U	0.5 ^U	0.5 ^U	800 ^U	5,300 ^U	17,500 ^U	32,000 ^U	1,000 ^U	20 ^U	15 ^U	15 ^U
01MW-12	Jan-04	na	<0.250	<0.500	1,130	336	6.10	12.0	17.2	na	na	na
01MW-12	Apr-04	na	0.471	<0.500	1,330	441	6.24	9.62	14.6	na	na	na
01MW-12	Jul-04	na	<0.250	<0.500	1,700	485	5.90	11.3	15.8	na	na	na
01MW-13												
01MW-13	Jul-01	na	3.90	<1.50	221	1.26	<0.500	<0.500	2.31	na	<1.00	na
01MW-13	Oct-01	2.73	1.29	<0.500	207	1.28	<0.500	<0.500	2.06	na	<1.00	<1.00
01MW-13	Jan-02	<0.500	<0.250	<0.500	160	<0.500	<0.500	<0.500	1.62	na	<1.00	<1.00
01MW-13	Apr-02	<0.500	<0.250	<0.500	204	0.978	<0.500	0.533	2.00	na	<1.00	<1.00
01MW-13	Jul-02	<0.500	<0.250	<0.500	304	1.19	<0.500	<0.500	2.86	na	<1.00	<1.00
01MW-13	Oct-02	na	<0.250	<0.500	149	<0.500	<0.500	<0.500	1.55	na	na	na
01MW-13	Jan-03	na	<0.250	<0.500	246	<1.00	<1.00	<1.00	<3.00	<5.00	na	na
01MW-13	Apr-03	na	0.688	<0.500	199	0.771	<0.500	<0.500	1.95	na	na	na
01MW-13	Aug-03	na	2.60	<0.500	137	0.520	<0.500	<0.500	1.77	na	na	na
01MW-13	Jan-04	na	<0.250	<0.500	167	0.775	<0.500	<0.500	1.85	na	na	na
01MW-13	Apr-04	na	0.257	<0.500	325	2.23	0.730	2.14	3.28	na	na	na
01MW-13	Jul-04	na	<0.250	<0.500	314	1.41	<0.500	<0.500	2.54	na	na	na
01MW-15												
01MW-15	Jul-01	1.66	0.484	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	na
01MW-15	Oct-01	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-15	Jan-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-15	Apr-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-15	Jul-02	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	<1.00	<1.00
01MW-15	Oct-02	na	na	na	na	na	na	na	na	na	na	na
01MW-15	Aug-03	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-15	Jul-04	<0.500	<0.250	<0.500	<50.0	<0.500	<0.500	<0.500	<1.00	na	na	na
01MW-16A												
01MW-16A	Jul-01	2.54	11.1	<2.50	11,000	3,910	123	261	891	na	<1.00	na
01MW-16B												
01MW-16B	Jul-01	2.09	9.62	<2.50	9,390	3,700	122	209	745	na	<1.00	<1.00
01MW-16												
01MW-16	Oct-01	<0.500	0.448	<0.500	11,500	3,670	113	274	984	na	<1.00	<1.00
01MW-16	Jan-02	<0.500	0.674	<0.500	13,400	5,300	116	250	906	na	<1.00	<1.00

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 2737 and 2750 West Commodore Way

Table 5-1. Cumulative Groundwater Results, July 2001 – July 2004, 2737 West Commodore Way (continued)

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ^U	0.5 ^U	0.5 ^U	800 ^U	5,300 ^U	17,500 ^U	32,000 ^U	1,000 ^U	20 ^U	15 ^U	15 ^U
01MW-16	Apr-02											
		No Sample Collected Due to Product										
01MW-16	Jul-02											
		No Sample Collected Due to Product										
01MW-16	Oct-02											
		No Sample Collected Due to Product										
01MW-16	Apr-03	< 1,010	3.83	< 0.926	13,300	4,100	75.5	227	754	na	na	na
01MW-16	Jul-04											
		No Sample Collected Due to Product										
01MW-17	Jul-01	< 0.500	0.884	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	na
01MW-17	Oct-01	1.65	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	< 1.00
01MW-17	Jan-02	< 0.500	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	< 1.00
01MW-17	Apr-02	< 0.500	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	< 1.00
01MW-17	Jul-02	< 0.500	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	< 1.00	< 1.00
01MW-17	Oct-02	na	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-17	Jan-03	na	< 0.250	< 0.500	< 50.0	< 1.00	< 1.00	< 1.00	< 3.00	< 5.00	na	na
01MW-17	Apr-03	na	0.273	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-17	Aug-03	na	0.327	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-17	Jan-04	na	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-17	Apr-04	na	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-17	Jul-04	na	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	na	na
01MW-18	Aug-03	< 0.500	1.12	< 0.500	7,160	1,410	276	272	1,010	na	na	na
01MW-18	Jul-04	< 0.500	0.676	< 0.500	10,700	1,570	124	283	1,360	na	na	na
01MW-19	Jul-02	< 0.500	< 0.250	< 0.500	< 50.0	< 0.500	< 0.500	< 0.500	< 1.00	na	2.88	< 1.00
01MW-19	Aug-03	< 0.500	1.46	< 0.500	15,800	3,070	1,390	562	3,160	na	na	na
01MW-19	Jul-04	1.32	0.708	< 0.500	19,900	2,610	945	522	3,190	na	na	na
01MW-20	Jul-02	< 0.500	< 0.250	< 0.500	16,700	1,640	1,390	468	2,840	na	3.45	< 1.00
01MW-20	Aug-03	< 0.500	< 0.250	< 0.500	132	4.74	1.08	6.67	6.85	na	na	na
01MW-20	Jul-04	< 0.500	< 0.250	< 0.500	573	13.2	3.86	21.9	29.5	na	na	na

Time Oil Company
 Quarterly Groundwater Sampling Report for July 2004
 2737 and 2750 West Commodore Way

Table 5-1. Cumulative Groundwater Results, July 2001 – July 2004, 2737 West Commodore Way (continued)

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ¹⁷	0.5 ²	0.5 ²	800 ³	5,300 ³	17,500 ³	32,000 ³	1,000 ³	20 ³	15 ²	15 ²
01MW-21	Jan-03	24.2	1.64	<0.500	743	<1.00	<1.00	7.26	10.3	<5.00	na	na
01MW-21	Apr-03	26.8	4.47	<0.500	930	1.03	<0.500	22.1	1.66	na	na	na
01MW-21	Aug-03	30.4	3.21	<0.500	592	0.828	<0.500	11.1	1.34	na	na	na
01MW-21	Jul-04	3.51	0.429	<0.500	986	0.858	<0.500	10.6	1.32	na	na	na
01MW-22												
01MW-22	Jan-03	400	1.57	<0.500	294	11	<1.00	<1.00	<3.00	<5.00	na	na
01MW-22	Aug-03	160	5.08	1.32	892	73.2	1.77	8.44	12	na	na	na
01MW-22	Jul-04	191	1.09	<0.500	1,340	73.5	0.943	4.71	10.2	na	na	na
01MW-23												
01MW-23	Apr-03	198 ⁶	na	na	na	na	na	na	na	na	na	na
01MW-23	Jul-04	350	0.540	<0.500	4,620	917	10.0	61.4	139	na	na	na
01MW-24												
01MW-24	Jan-03	222	6.13	<0.500	19,800	5,400	<50.0	211	827	<5.00	na	na
01MW-24	Jul-04	<0.500	0.837	<0.500	18,400	6,750	35.0	261	816	na	na	na
01MW-25												
01MW-25	Apr-03	<75.0 ⁶	na	na	na	na	na	na	na	na	na	na
01MW-25	Aug-03	181	13.0	1.67	15,700	6,670	<50.0	278	738	na	na	na
01MW-25	Jul-04											
No Sample Collected Due to Product												
01MW-26												
01MW-26	Jan-03	33.2	1.38	<0.500	4,180	352	87.4	45.3	413	<5.00	na	na
01MW-26	Apr-03	4.08	0.967	<0.500	228	35.1	11.5	5.54	20.2	na	na	na
01MW-26	Aug-03	2.34	1.40	<0.500	119	5.70	1.17	3.39	6.12	na	na	na
01MW-26	Jul-04	40.5	<0.250	<0.500	137	9.69	0.706	3.56	4.92	na	na	na
01MW-27												
01MW-27	Jan-03	46.4	0.330	<0.500	11,300	4,230	211	68.0	158	<5.00	na	na
01MW-27	Apr-03	56.9	1.98	<0.500	15,500	6,090	227	88.1	197	na	na	na
01MW-27	Aug-03	79.4	3.17	<0.500	14,800	6,180	53.0	73.5	<100	na	na	na
01MW-27	Jul-04	50.7	<0.250	<0.500	10,900	6,220	43.9	70.4	50.0	na	na	na

Time Oil Company
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 2737 and 2750 West Commodore Way

Table 5-1. Cumulative Groundwater Results, July 2001 – July 2004, 2737 West Commodore Way (continued)

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ^{1/}	0.5 ^{2/}	0.5 ^{2/}	800 ^{3/}	5,300 ^{4/}	17,500 ^{5/}	32,000 ^{4/}	1,000 ^{2/}	20 ^{2/}	15 ^{2/}	15 ^{2/}
01MW-28	Apr-03	24.6	5.02	< 0.500	28,400	6,390	2,870	401	2,250	na	na	na
01MW-28A	Aug-03	21.7	4.63	< 0.500	199,000	3,670	1,410	448	1,520	na	na	na
01MW-28B	Aug-03	22.0	4.12	< 0.500	210,000	3,580	1,380	478	1,680	na	na	na
01MW-28A	Jul-04	2.44	1.44	< 0.500	17,900	5,060	1,910	343	1,230	na	na	na
01MW-28B	Jul-04	2.28	1.68	< 0.500	18,400	5,030	1,810	355	1,250	na	na	na
01MW-29	Apr-03	< 50	9.51	0.689	18,600	6,160	171	285	632	na	na	na
01MW-29	Jul-04	9.11	14.3	< 0.500	17,800	5,410	167	236	718	na	na	na

Abbreviations and acronyms:

mg/L – milligram per liter

µg/L – microgram per liter

MTCA – Model Toxics Control Act

NOAA – National Oceanic and Atmospheric Administration

na – no analysis requested

SQUIRT™ – Screening Quick Reference Table

< symbol indicates result is less than reporting limit (in parenthesis)

Notes:

Results above action levels in bold and italics

^{1/}NOAA SQUIRT™ value for freshwater continuous concentration

^{2/}MTCA Method A

^{3/}MTCA Method A gasoline range with benzene present

^{4/}MTCA Method A gasoline range without benzene present

^{5/}NOAA SQUIRT™ value for freshwater maximum concentration

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 2737 and 2750 West Commodore Way

Table 5-2. Cumulative Groundwater Results, July 2001 – July 2004, 2750 West Commodore Way

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ¹⁷	0.5 ²⁷	0.5 ²⁷	800 ³⁷	1,000 ⁴⁷	5,300 ³⁷	17,500 ³⁷	32,000 ³⁷	1,000 ²⁷	15 ²⁷	15 ²⁷
02MW-01	Jul-01	na	0.500	< 0.500	119		44.4	0.662	< 0.500	1.15	< 1.00	na
02MW-01	Oct-01	< 0.500	< 0.250	< 0.500	235		81.3	1.41	< 0.500	2.84	< 1.00	< 1.00
02MW-01	Jan-02	< 0.500	< 0.250	< 0.500	< 50.0		4.67	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-01	Apr-02	< 0.500	< 0.250	< 0.500	< 50.0		4.24	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-01	Jul-02	< 0.500	< 0.250	< 0.500	182		67.5	1.20	< 0.500	2.39	< 1.00	< 1.00
02MW-01	Oct-02	na	< 0.250	< 0.500	327		82.0	2.37	< 0.500	7.62	na	na
02MW-01	Jan-03	na	< 0.250	< 0.500	134		28.9	< 1.00	< 1.00	< 3.00	na	na
02MW-01	Apr-03	na	< 0.250	< 0.500	5.55		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-01	Aug-03	na	< 0.250	< 0.500	158		37.8	0.869	< 0.500	< 1.00	na	na
02MW-01	Oct-03	na	< 0.250	< 0.500	201		64.4	2.41	< 0.500	6.92	na	na
02MW-01	Jan-04	na	< 0.250	< 0.500	< 50.0		1.32	< 0.500	< 0.500	< 1.00	na	na
02MW-01	Apr-04	na	< 0.250	< 0.500	< 50.0		2.54	< 0.500	< 0.500	< 1.00	na	na
02MW-01	Jul-04	na	< 0.250	< 0.500	< 50.0		7.91	< 0.500	< 0.500	< 1.00	na	na
02MW-02	Jul-01	na	0.679	< 0.500	< 50		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	na
02MW-02	Oct-01	2.21	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-02	Jan-02	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-02	Apr-02	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-02	Jul-02	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-02	Oct-02	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-02	Jan-03	na	< 0.250	< 0.500	< 50.0		< 1.00	< 1.00	< 1.00	< 3.00	na	na
02MW-02	Apr-03	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-02	Aug-03	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-02	Oct-03	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-02	Jan-04	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-02	Apr-04	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-02	Jul-04	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-03	Jul-01	na	0.619	< 0.500	90.4		38.6	0.664	< 0.500	< 1.00	< 1.00	na
02MW-03	Oct-01	< 0.500	< 0.250	< 0.500	109		46.6	1.16	< 0.500	< 1.00	< 1.00	< 1.00
02MW-03	Jan-02	< 0.500	< 0.250	< 0.500	< 50.0		7.84	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-03	Apr-02	< 0.500	< 0.250	< 0.500	< 50.0		7.21	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-03	Jul-02	< 0.500	< 0.250	< 0.500	143		63.4	2.37	< 0.500	< 1.00	< 1.00	< 1.00
02MW-03	Oct-02	na	< 0.250	< 0.500	122		37.0	0.572	< 0.500	1.70	na	na
02MW-03	Jan-03	na	< 0.250	< 0.500	56.7		17.7	< 1.00	< 1.00	< 3.00	na	na
02MW-03	Apr-03	na	< 0.250	< 0.500	10.5		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-03	Aug-03	na	< 0.250	< 0.500	< 50.0		3.42	< 0.500	< 0.500	< 1.00	na	na
02MW-03	Oct-03	na	< 0.250	< 0.500	261		123	1.59	< 0.500	2.72	na	na
02MW-03	Jan-04	na	< 0.250	< 0.500	< 50.0		0.387	< 0.500	< 0.500	< 1.00	na	na
02MW-03	Apr-04	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-03	Jul-04	na	< 0.250	< 0.500	< 50.0		0.718	< 0.500	< 0.500	< 1.00	na	na
02MW-04	Jul-01	na	1.41	< 0.500	4,270		23.9	231	165	484	4.68	na
02MW-04A	Oct-01	< 0.500	< 0.250	< 0.500	4,070		21.4	262	285	594	6.50	6.06
02MW-04B	Oct-01	< 0.500	< 0.250	< 0.500	3,890		21.7	257	291	590	6.68	4.01
02MW-04A	Jan-02	< 0.500	< 0.250	< 0.500	4,070		21.4	262	285	594	4.35	3.24
02MW-04B	Jan-02	< 0.500	< 0.250	< 0.500	3,890		21.7	257	291	590	5.27	< 1.00
02MW-04A	Apr-02	< 0.500	< 0.250	< 0.500	3,280		19.1	172	255	525	5.34	2.88
02MW-04B	Apr-02	< 0.500	< 0.250	< 0.500	3,440		21.0	193	288	591	4.86	3.42
02MW-04A	Jul-02	< 0.500	< 0.250	< 0.500	4,640		23.8	165	330	558	5.54	3.68

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 Quarterly Groundwater Sampling Report for July 2004
 2737 and 2750 West Commodore Way

Table 5-2. Cumulative Groundwater Results, July 2001 – July 2004, 2750 West Commodore Way (continued)

Sample	Date	PCP	Diesel	Oil	Gas		Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead
		(µg/L)	(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Action Level		15 ^{1/}	0.5 ^{2/}	0.5 ^{2/}	800 ^{3/}	1,000 ^{4/}	5,300 ^{5/}	17,500 ^{6/}	32,000 ^{7/}	1,000 ^{2/}	15 ^{2/}	15 ^{2/}
02MW-04B	Jul-02	< 0.500	< 0.250	< 0.500	4,770		21.3	178	362	612	5.32	2.91
02MW-04A	Oct-02	na	< 0.250	< 0.500	3,200		24.6	47.5	284	225	na	na
02MW-04B	Oct-02	na	< 0.250	< 0.500	3,020		24.6	45.9	288	226	na	na
02MW-04A	Jan-03	na	< 0.250	< 0.500	4,720		16.4	162	304	502	na	na
02MW-04B	Jan-03	na	< 0.250	< 0.500	4,720		15.0	170	294	542	na	na
02MW-04A	Apr-03	na	0.555	< 0.500	7,130		24.6	796	363	735	na	na
02MW-04B	Apr-03	na	0.462	< 0.500	6,640		21.7	187	351	710	na	na
02MW-04A	Aug-03	na	0.483	< 0.500	4,610		32.6	92.7	333	605	na	na
02MW-04B	Aug-03	na	0.416	< 0.500	4,170		29.0	81.3	299	526	na	na
02MW-04A	Oct-03	na	< 0.250	< 0.500	2,720		31.7	29.0	333	162	na	na
02MW-04B	Oct-03	na	< 0.250	< 0.500	2,580		33.6	28.6	316	163	na	na
02MW-04A	Jan-04	na	< 0.250	< 0.500	4,190		27.0	115	276	572	na	na
02MW-04B	Jan-04	na	< 0.250	< 0.500	3,640		23.9	105	253	522	na	na
02MW-04A	Apr-04	na	< 0.250	< 0.500	12,200		30.6	286	878	2,030	na	na
02MW-04B	Apr-04	na	< 0.250	< 0.500	10,700		17.5	265	741	1,880	na	na
02MW-04A	Jul-04	na	< 0.250	< 0.500	4,800		35.9	54.5	308	584	na	na
02MW-04B	Jul-04	na	< 0.250	< 0.500	4,800		34.2	54.5	305	570	na	na
02MW-05												
02MW-05	Jul-01	na	0.997	< 0.500	51.8		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	na
02MW-05	Oct-01	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-05	Jan-02	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-05	Apr-02	< 0.500	< 0.250	< 0.500	295		1.20	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-05	Jul-02	< 0.500	< 0.250	< 0.500	102		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-05	Oct-02	na	< 0.250	< 0.500	61.6		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-05	Jan-03	na	< 0.250	< 0.500	191		< 1.00	< 1.00	1.42	< 3.00	na	na
02MW-05	Apr-03	na	0.280	< 0.500	608		1.71	< 0.500	19.1	< 1.00	na	na
02MW-05	Aug-03	na	0.271	< 0.500	63.8		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-05	Oct-03	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-05	Jan-04	na	< 0.250	< 0.500	326		< 0.500	< 0.500	1.03	< 1.00	na	na
02MW-05	Apr-04	na	< 0.250	< 0.500	364		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-05	Jul-04	na	< 0.250	< 0.500	209		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW06A												
02MW06A	Jul-01	na	0.923	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	na
02MW06B												
02MW06B	Jul-01	na	0.897	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	na
02MW-06												
02MW-06	Oct-01	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-06	Jan-02	0.991	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-06	Apr-02	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-06	Jul-02	< 0.500	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-06	Oct-02	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-06	Jan-03	na	< 0.250	< 0.500	< 50.0		< 1.00	< 1.00	< 1.00	< 3.00	na	na
02MW-06	Apr-03	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-06	Aug-03	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-06	Oct-03	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-06	Jan-04	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-06	Apr-04	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-06	Jul-04	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na

Table 5-2. Cumulative Groundwater Results, July 2001 – July 2004, 2750 West Commodore Way (continued)

Sample	Date	PCP (µg/L)	Diesel (mg/L)	Oil (mg/L)	Gas (µg/L)		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
Action Level		15 ^{1/}	0.5 ^{2/}	0.5 ^{2/}	800 ^{3/}	1,000 ^{4/}	5,300 ^{3/}	17,500 ^{3/}	32,000 ^{3/}	1,000 ^{2/}	15 ^{2/}	15 ^{2/}
02MW-07	Jul-01	na	0.417	< 0.500	244		< 0.500	< 0.500	< 0.500	2.79	< 1.00	na
02MW-07	Oct-01	2.15	< 0.250	< 0.500	69.7		< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 1.00
02MW-07	Jan-02	1.64	< 0.250	< 0.500	92.5		< 0.500	< 0.500	< 0.500	1.47	< 1.00	< 1.00
02MW-07	Apr-02	< 0.500	< 0.250	< 0.500	251		< 0.500	< 0.500	0.655	6.96	< 1.00	< 1.00
02MW-07	Jul-02	< 0.500	< 0.250	< 0.500	242		< 0.500	< 0.500	< 0.500	2.71	< 1.00	< 1.00
02MW-07	Oct-02	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-07	Jan-03	na	< 0.250	< 0.500	146		< 1.00	< 1.00	< 1.00	< 3.00	na	na
02MW-07	Apr-03	na	< 0.250	< 0.500	177		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-07	Aug-03	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-07	Oct-03	na	< 0.250	< 0.500	< 50.0		< 0.500	< 0.500	< 0.500	< 1.00	na	na
02MW-07	Jan-04	na	< 0.250	< 0.500	182		< 0.500	< 0.500	< 0.500	2.09	na	na
02MW-07	Apr-04	na	< 0.250	< 0.500	143		< 0.500	< 0.500	< 0.500	1.38	na	na
02MW-07	Jul-04	na	< 0.250	< 0.500	131		< 0.500	< 0.500	< 0.500	1.52	na	na

Abbreviations and acronyms:

mg/L – milligram per liter

µg/L – microgram per liter

MTCA – Model Toxics Control Act

NOAA – National Oceanic and Atmospheric Administration

na – no analysis requested

RPD – relative percent difference

SQuiRT™ – Screening Quick Reference Table

< symbol indicates result is less than reporting limit (in parenthesis)

Notes:

Results above action levels in bold and italics

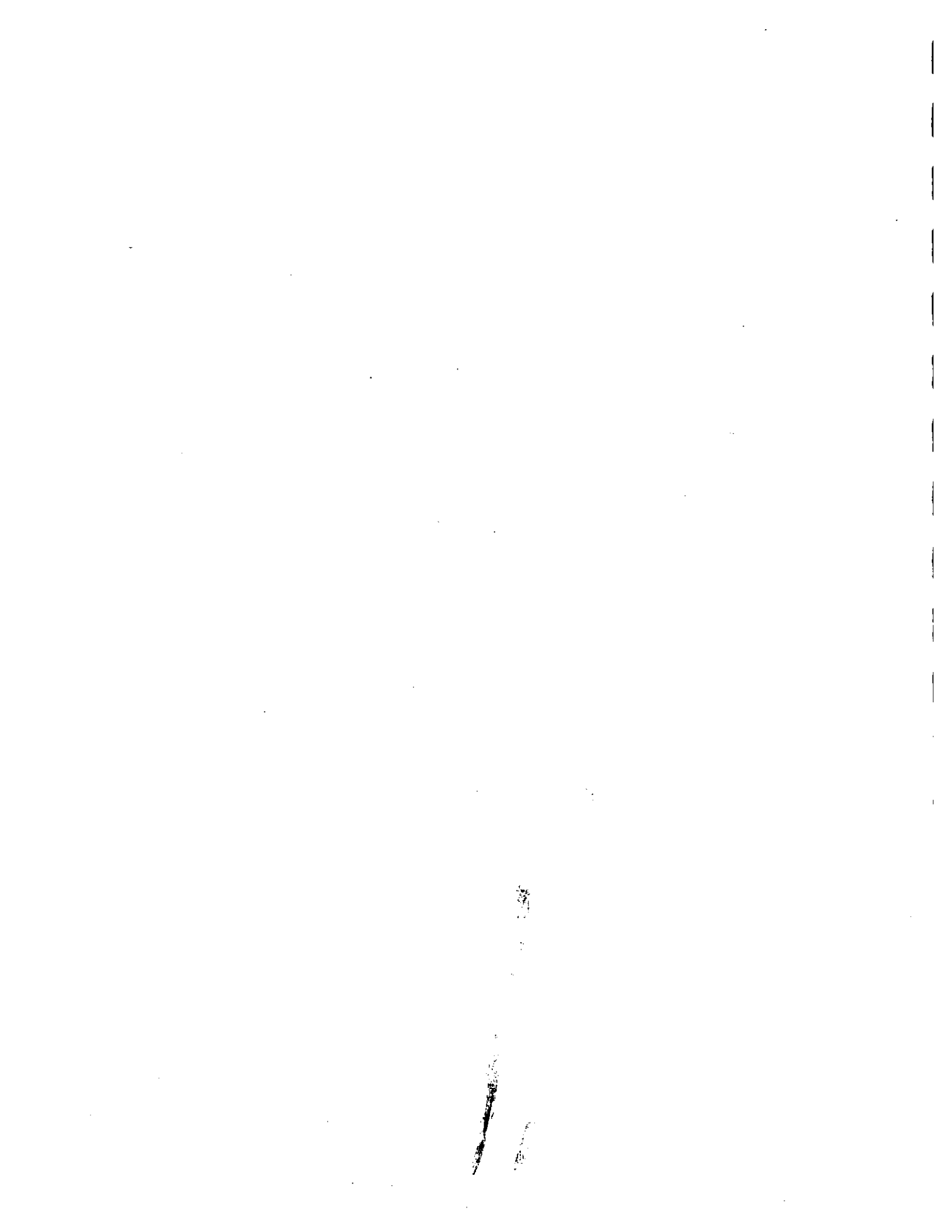
^{1/}NOAA SQuiRT™ value for freshwater continuous concentration

^{2/}MTCA Method A

^{3/}MTCA Method A gasoline range with benzene present

^{4/}MTCA Method A gasoline range without benzene present

^{5/}NOAA SQuiRT™ value for freshwater maximum concentration



Time Oil Company
Quarterly Groundwater Sampling Report for July 2004
2737 and 2750 West Commodore Way

APPENDIX A
LABORATORY DATA PACKAGES





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907.563.9200 fax 907.563.9210

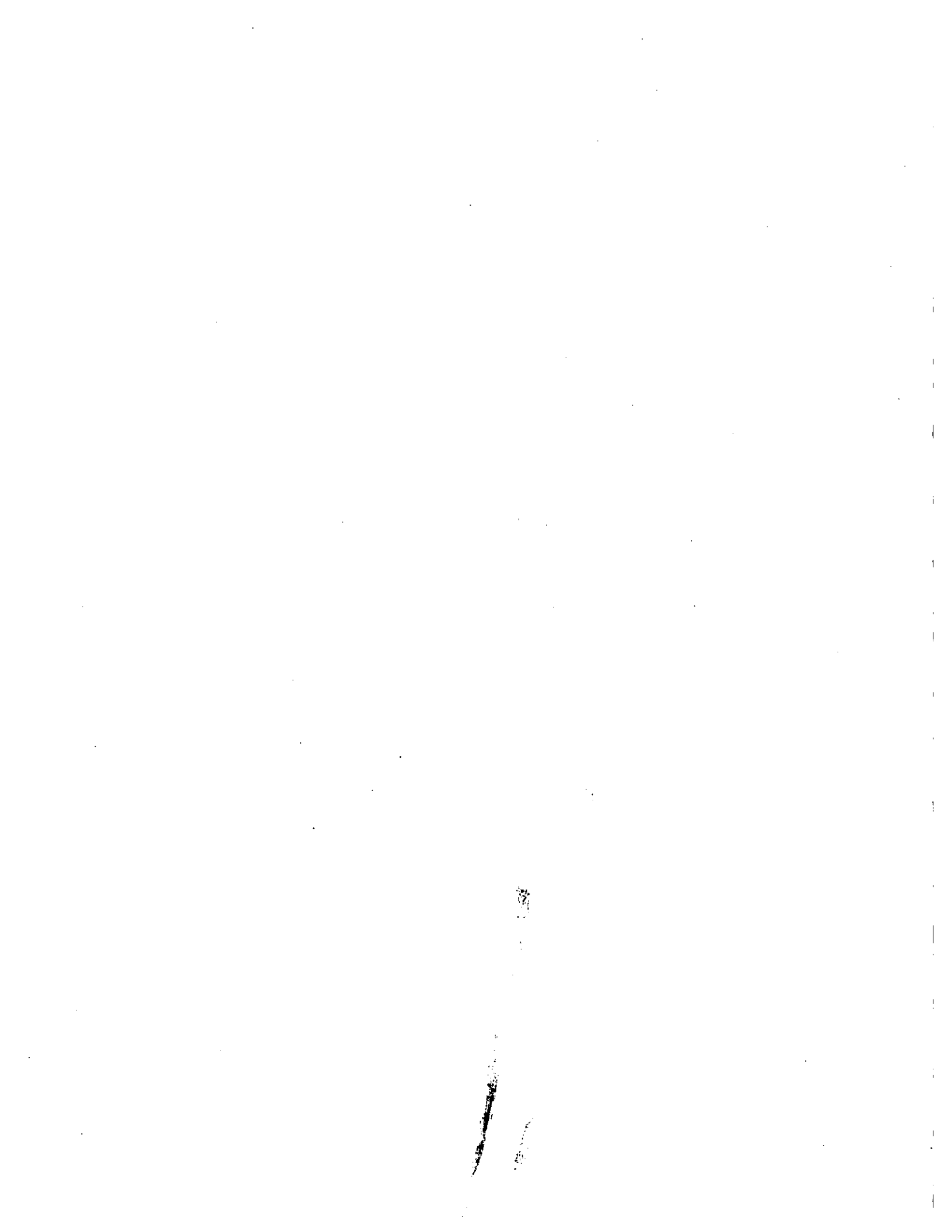
27 July 2004

Bryan Graham
Tetra Tech FW, Inc. - Bothell
12100 NE 195th St
Bothell, WA/USA 98011
RE: Time Oil-West Commodore Way

Enclosed are the results of analyses for samples received by the laboratory on 07/14/04 16:24. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Omar Gill
Project Manager





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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306
 Project Manager: Bryan Graham

Reported:
 07/27/04 13:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01MW-07	B4G0357-01	Water	07/14/04 08:15	07/14/04 16:24
01MW-TB1	B4G0357-02	Water	07/14/04 08:00	07/14/04 16:24
02MW-02	B4G0357-03	Water	07/14/04 08:50	07/14/04 16:24
02MW-07	B4G0357-04	Water	07/14/04 09:10	07/14/04 16:24
02MW-01	B4G0357-05	Water	07/14/04 09:20	07/14/04 16:24
02MW-03	B4G0357-06	Water	07/14/04 09:35	07/14/04 16:24
02MW-05	B4G0357-07	Water	07/14/04 09:50	07/14/04 16:24
02MW-04A	B4G0357-08	Water	07/14/04 10:10	07/14/04 16:24
02MW-04B	B4G0357-09	Water	07/14/04 10:20	07/14/04 16:24
02MW-06	B4G0357-10	Water	07/14/04 10:30	07/14/04 16:24

North Creek Analytical - Bothell

Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306
 Project Manager: Bryan Graham

Reported:
 07/27/04 13:09

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-07 (B4G0357-01) Water Sampled: 07/14/04 08:15 Received: 07/14/04 16:24									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G20003	07/20/04	07/20/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	101 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	94.2 %	68-140			"	"	"	"	
01MW-TB1 (B4G0357-02) Water Sampled: 07/14/04 08:00 Received: 07/14/04 16:24									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G20003	07/20/04	07/20/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	98.5 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	90.2 %	68-140			"	"	"	"	
02MW-02 (B4G0357-03) Water Sampled: 07/14/04 08:50 Received: 07/14/04 16:24									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G20003	07/20/04	07/20/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	100 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	91.0 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306
 Project Manager: Bryan Graham

Reported:
 07/27/04 13:09

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
J2MW-07 (B4G0357-04) Water Sampled: 07/14/04 09:10 Received: 07/14/04 16:24									
Gasoline Range Hydrocarbons	131	50.0	ug/l	1	4G20003	07/20/04	07/20/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.52	1.00	"	"	"	"	"	"	1-06
Surrogate: 4-BFB (FID)	106 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	91.2 %	68-140			"	"	"	"	
02MW-01 (B4G0357-05) Water Sampled: 07/14/04 09:20 Received: 07/14/04 16:24									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G20003	07/20/04	07/20/04	NWTPH-Gx/8021B	
Benzene	7.91	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	100 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	90.2 %	68-140			"	"	"	"	
J2MW-03 (B4G0357-06) Water Sampled: 07/14/04 09:35 Received: 07/14/04 16:24									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G20003	07/20/04	07/20/04	NWTPH-Gx/8021B	
Benzene	0.718	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	98.8 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	91.5 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

Omar Gill, Project Manager

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 Environmental Laboratory Network



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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
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Project: Time Oil-West Commodore Way
 Project Number: 2306
 Project Manager: Bryan Graham

Reported:
 07/27/04 13:09

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02MW-05 (B4G0357-07) Water Sampled: 07/14/04 09:50 Received: 07/14/04 16:24									
Gasoline Range Hydrocarbons	209	50.0	ug/l	1	4G20003	07/20/04	07/20/04	NWTPH-Gx/8021B	G-02
Benzene	ND	0.500	"	"	"	"	"	"	"
Toluene	ND	0.500	"	"	"	"	"	"	"
Ethylbenzene	ND	0.500	"	"	"	"	"	"	"
Xylenes (total)	ND	1.00	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	95.2 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	92.1 %	68-140			"	"	"	"	"
02MW-04A (B4G0357-08) Water Sampled: 07/14/04 10:10 Received: 07/14/04 16:24									
Gasoline Range Hydrocarbons	4800	500	ug/l	10	4G20003	07/20/04	07/21/04	NWTPH-Gx/8021B	
Benzene	35.9	5.00	"	"	"	"	"	"	
Toluene	54.5	5.00	"	"	"	"	"	"	
Ethylbenzene	308	5.00	"	"	"	"	"	"	
Xylenes (total)	584	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	107 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	96.2 %	68-140			"	"	"	"	
02MW-04B (B4G0357-09) Water Sampled: 07/14/04 10:20 Received: 07/14/04 16:24									
Gasoline Range Hydrocarbons	4800	250	ug/l	5	4G20003	07/20/04	07/20/04	NWTPH-Gx/8021B	
Benzene	34.2	2.50	"	"	"	"	"	"	
Toluene	54.5	2.50	"	"	"	"	"	"	
Ethylbenzene	305	2.50	"	"	"	"	"	"	
Xylenes (total)	570	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	124 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	99.2 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306
 Project Manager: Bryan Graham

Reported:
 07/27/04 13:09

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
2MW-06 (B4G0357-10) Water Sampled: 07/14/04 10:30 Received: 07/14/04 16:24										
Gasoline Range Hydrocarbons	ND	50.0		ug/l	1	4G20003	07/20/04	07/20/04	NWTPH-Gx/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	98.8 %	58-144				"	"	"	"	
Surrogate: 4-BFB (PID)	91.5 %	68-140				"	"	"	"	

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306
 Project Manager: Bryan Graham

Reported:
 07/27/04 13:09

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4G20003: Prepared 07/20/04 Using EPA 5030B (P/T)

Blank (4G20003-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	46.4		"	48.0		96.7	58-144			
Surrogate: 4-BFB (PID)	43.4		"	48.0		90.4	68-140			

LCS (4G20003-BS1)

Gasoline Range Hydrocarbons	515	50.0	ug/l	502		103	80-120			
Benzene	6.75	0.500	"	6.21		109	80-120			
Toluene	35.3	0.500	"	34.9		101	80-120			
Ethylbenzene	8.74	0.500	"	8.38		104	80-120			
Xylenes (total)	42.9	1.00	"	40.6		106	80-120			
Surrogate: 4-BFB (FID)	50.5		"	48.0		105	58-144			
Surrogate: 4-BFB (PID)	42.8		"	48.0		89.2	68-140			

LCS Dup (4G20003-BSD1)

Gasoline Range Hydrocarbons	479	50.0	ug/l	502		95.4	80-120	7.24	25	
Benzene	6.55	0.500	"	6.21		105	80-120	3.01	25	
Toluene	34.2	0.500	"	34.9		98.0	80-120	3.17	25	
Ethylbenzene	8.40	0.500	"	8.38		100	80-120	3.97	25	
Xylenes (total)	40.8	1.00	"	40.6		100	80-120	5.02	25	
Surrogate: 4-BFB (FID)	47.6		"	48.0		99.2	58-144			
Surrogate: 4-BFB (PID)	43.0		"	48.0		89.6	68-140			

Matrix Spike (4G20003-MS1)

Source: B4G0357-01

Gasoline Range Hydrocarbons	518	50.0	ug/l	502	44.6	94.3	58-129			
Benzene	7.28	0.500	"	6.21	ND	117	46-130			
Toluene	34.5	0.500	"	34.9	0.133	98.5	60-124			
Ethylbenzene	8.64	0.500	"	8.38	ND	103	56-141			
Xylenes (total)	41.9	1.00	"	40.6	ND	103	66-132			
Surrogate: 4-BFB (FID)	50.8		"	48.0		106	58-144			
Surrogate: 4-BFB (PID)	43.4		"	48.0		90.4	68-140			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306
 Project Manager: Bryan Graham

Reported:
 07/27/04 13:09

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4G20003: Prepared 07/20/04 Using EPA 5030B (P/T)

Matrix Spike Dup (4G20003-MSD1)

Source: B4G0357-01

Gasoline Range Hydrocarbons	494	50.0	ug/l	502	44.6	89.5	58-129	4.74	25	
Benzene	6.86	0.500	"	6.21	ND	110	46-130	5.94	40	
Toluene	32.9	0.500	"	34.9	0.133	93.9	60-124	4.75	40	
Ethylbenzene	8.08	0.500	"	8.38	ND	96.4	56-141	6.70	40	
Xylenes (total)	39.6	1.00	"	40.6	ND	97.5	66-132	5.64	40	
Surrogate: 4-BFB (FID)	52.6		"	48.0		110	58-144			
Surrogate: 4-BFB (PID)	43.7		"	48.0		91.0	68-140			

North Creek Analytical - Bothell

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Omar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306
 Project Manager: Bryan Graham

Reported:
 07/27/04 13:09

**Semivolatle Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4G17007: Prepared 07/17/04 Using EPA 3510C

Blank (4G17007-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.272		"	0.270		101	50-150			
Surrogate: Octacosane	0.179		"	0.195		91.8	50-150			

LCS (4G17007-BS1)

Diesel Range Hydrocarbons	1.47	0.250	mg/l	2.00		73.5	45-105			
Surrogate: 2-FBP	0.266		"	0.270		98.5	50-150			

LCS Dup (4G17007-BSD1)

Diesel Range Hydrocarbons	1.62	0.250	mg/l	2.00		81.0	45-105	9.71	50	
Surrogate: 2-FBP	0.264		"	0.270		97.8	50-150			

Batch 4G23014: Prepared 07/23/04 Using EPA 3520C

Blank (4G23014-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.203		"	0.270		75.2	50-150			
Surrogate: Octacosane	0.161		"	0.195		82.6	50-150			

LCS (4G23014-BS1)

Diesel Range Hydrocarbons	1.30	0.250	mg/l	2.00		65.0	45-105			
Surrogate: 2-FBP	0.218		"	0.270		80.7	50-150			

LCS Dup (4G23014-BSD1)

Diesel Range Hydrocarbons	0.998	0.250	mg/l	2.00		49.9	45-105	26.3	50	
Surrogate: 2-FBP	0.150		"	0.270		55.6	50-150			

North Creek Analytical - Bothell

Amar Gill, Project Manager

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 Environmental Laboratory Network



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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306
 Project Manager: Bryan Graham

Reported:
 07/27/04 13:09

Notes and Definitions

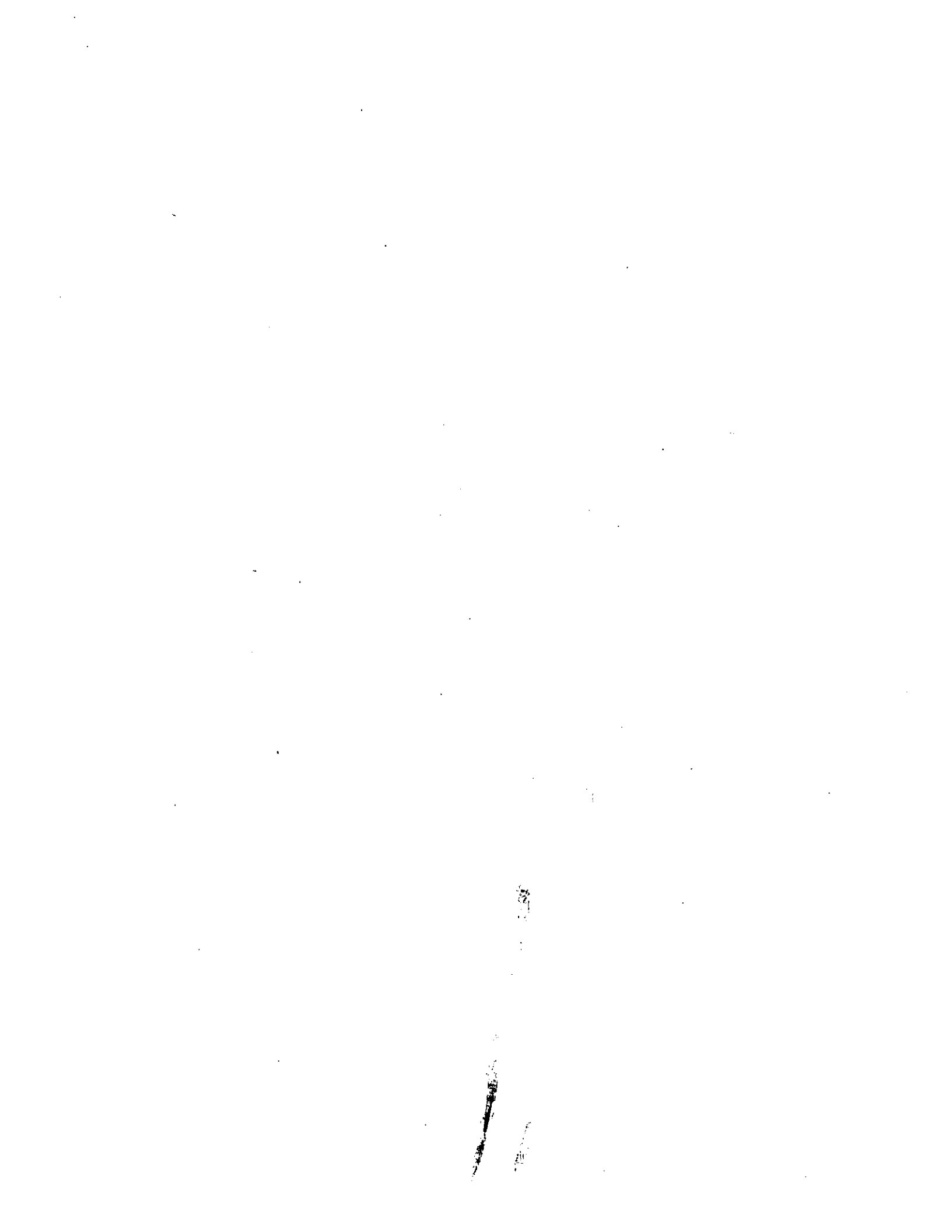
- G-02 The chromatogram for this sample does not resemble a typical gasoline pattern. Please refer to the sample chromatogram.
- I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

Amar Gill, Project Manager

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 503-906-9200 FAX 906-9210
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CHAIN OF CUSTODY REPORT

Work Order #: **BAGD357**

CLIENT: **Time Oil Company**
 REPORT TO: **Scott Sloan (cc B.Graham @tfcwi)**
 ADDRESS: **2737 W Commodore Way
 Seattle WA 98199**
 PHONE: **206 286 457** FAX: **206 286 457**

INVOICE TO: **Same as left**
 P.O. NUMBER:

TURNAROUND REQUEST
 in Business Days *

Organic & Inorganic Analyses
 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 4 3 2 1 <1

STD.

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PROJECT NAME: **Quarterly Groundwater Monitoring July 04**
 PROJECT NUMBER: **2306**

PRESERVATIVE

SAMPLED BY: **E. TOBEY & P. Wehner, z**

REQUESTED ANALYSES

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	W	S	O	N	P	H	TEX	MPH	DX	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1. 01 MW-07	07/14/04 0815	X	X	X	X	X	X	X	X	X	W	5	-	01
2. 01 MW-TB1	07/14/04 0800	X	X	X	X	X	X	X	X	X	W	3	-	02
3. 02 MW-02	07/14/04 0850	X	X	X	X	X	X	X	X	X	W	5	-	03
4. 02 MW-07	07/14/04 0910	X	X	X	X	X	X	X	X	X	W	5	-	04
5. 02 MW-01	07/14/04 0920	X	X	X	X	X	X	X	X	X	W	5	-	05
6. 02 MW-03	07/14/04 0935	X	X	X	X	X	X	X	X	X	W	5	-	06
7. 02 MW-05	07/14/04 0950	X	X	X	X	X	X	X	X	X	W	5	-	07
8. 02 MW-04A	07/14/04 1010	X	X	X	X	X	X	X	X	X	W	5	-	08
9. 02 MW-04B	07/14/04 1020	X	X	X	X	X	X	X	X	X	W	5	-	09
10. 02 MW-06	07/14/04 1030	X	X	X	X	X	X	X	X	X	W	5	-	10

RELEASED BY: **Ellen Tobey** FIRM: **TTFWI** DATE: **7/14/04** TIME: **10:24**
 RECEIVED BY: **Scotty Gumble** FIRM: **NCA** DATE: **7/17/04** TIME: **10:24**

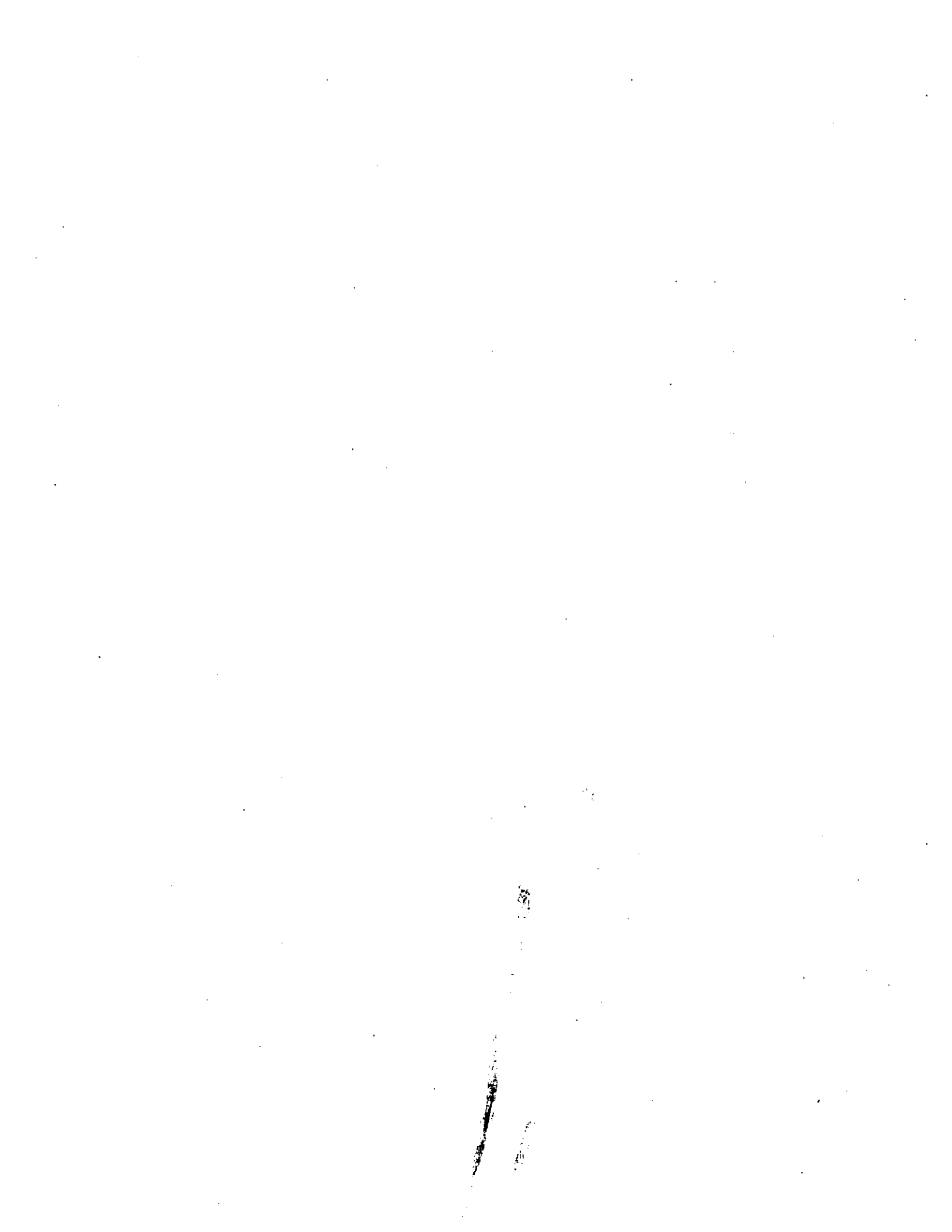
RELEASED BY: **Ellen Tobey** FIRM: **TTFWI** DATE: **7/14/04** TIME: **10:24**
 RECEIVED BY: **Scotty Gumble** FIRM: **NCA** DATE: **7/17/04** TIME: **10:24**

PRINT NAME: **Ellen Tobey** FIRM: **TTFWI** DATE: **7/14/04** TIME: **10:24**
 PRINT NAME: **Scotty Gumble** FIRM: **NCA** DATE: **7/17/04** TIME: **10:24**

ADDITIONAL REMARKS: **Silica gel cleanup on diesel samples**

CCC REV 1/03

1 OF 1





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02 August 2004

Bryan Graham

Tetra Tech FW, Inc. - Bothell

12100 NE 195th St

Bothell, WA/USA 98011

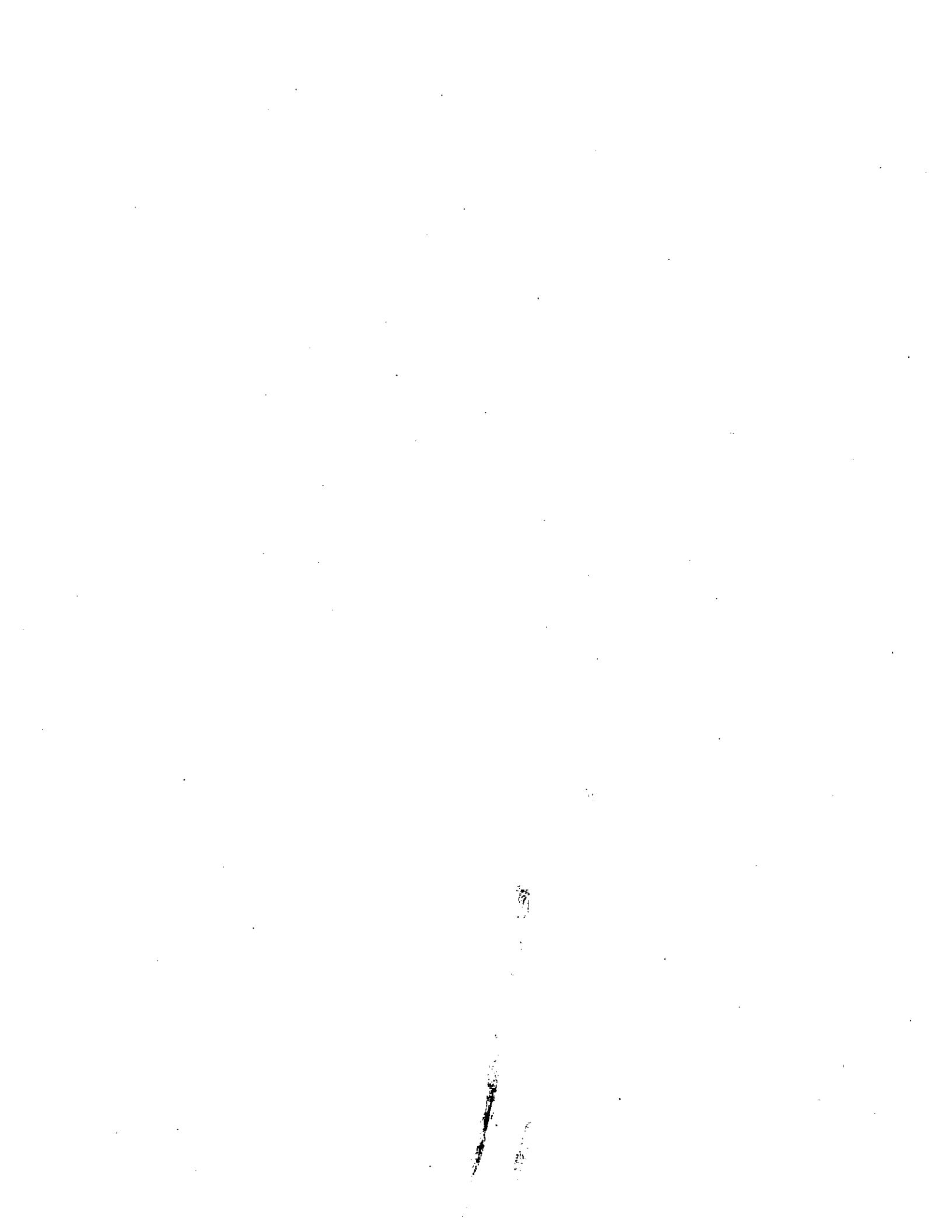
RE: Time Oil-West Commodore Way

Enclosed are the results of analyses for samples received by the laboratory on 07/15/04 16:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill

Project Manager





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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/02/04 13:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01MW-TB2	B4G0407-01	Water	07/15/04 07:30	07/15/04 16:51
01MW-02	B4G0407-02	Water	07/15/04 07:50	07/15/04 16:51
01MW-03	B4G0407-03	Water	07/15/04 08:10	07/15/04 16:51
01MW-09	B4G0407-04	Water	07/15/04 08:35	07/15/04 16:51
01MW-08	B4G0407-05	Water	07/15/04 09:05	07/15/04 16:51
01MW-19	B4G0407-06	Water	07/15/04 09:25	07/15/04 16:51
01MW-18	B4G0407-07	Water	07/15/04 09:50	07/15/04 16:51
01MW-04	B4G0407-08	Water	07/15/04 10:10	07/15/04 16:51

North Creek Analytical - Bothell

Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/02/04 13:31

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

01MW-TB2 (B4G0407-01) Water Sampled: 07/15/04 07:30 Received: 07/15/04 16:51

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G20005	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	"
Toluene	ND	0.500	"	"	"	"	"	"	"
Ethylbenzene	ND	0.500	"	"	"	"	"	"	"
Xylenes (total)	ND	1.00	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	96.7 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	89.8 %	68-140			"	"	"	"	"

01MW-02 (B4G0407-02) Water Sampled: 07/15/04 07:50 Received: 07/15/04 16:51

Gasoline Range Hydrocarbons	9670	2500	ug/l	50	4G20005	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	3230	25.0	"	"	"	"	"	"	"
Toluene	97.0	25.0	"	"	"	"	"	"	"
Ethylbenzene	146	25.0	"	"	"	"	"	"	"
Xylenes (total)	441	50.0	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	100 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	92.3 %	68-140			"	"	"	"	"

01MW-03 (B4G0407-03) Water Sampled: 07/15/04 08:10 Received: 07/15/04 16:51

Gasoline Range Hydrocarbons	4500	1000	ug/l	20	4G20005	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	1130	10.0	"	"	"	"	"	"	"
Toluene	60.8	10.0	"	"	"	"	"	"	"
Ethylbenzene	41.4	10.0	"	"	"	"	"	"	"
Xylenes (total)	82.5	20.0	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	102 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	91.2 %	68-140			"	"	"	"	"

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
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Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/02/04 13:31

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1MW-09 (B4G0407-04) Water Sampled: 07/15/04 08:35 Received: 07/15/04 16:51									
Gasoline Range Hydrocarbons	7730	2500	ug/l	50	4G20005	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	1050	25.0	"	"	"	"	"	"	
oluene	48.0	25.0	"	"	"	"	"	"	
Ethylbenzene	232	25.0	"	"	"	"	"	"	
Xylenes (total)	942	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	97.9 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	91.7 %	68-140			"	"	"	"	
01MW-08 (B4G0407-05) Water Sampled: 07/15/04 09:05 Received: 07/15/04 16:51									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G20005	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	93.3 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	90.6 %	68-140			"	"	"	"	
01MW-19 (B4G0407-06) Water Sampled: 07/15/04 09:25 Received: 07/15/04 16:51									
Gasoline Range Hydrocarbons	19900	5000	ug/l	100	4G20005	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	2610	50.0	"	"	"	"	"	"	
Toluene	945	50.0	"	"	"	"	"	"	
Ethylbenzene	522	50.0	"	"	"	"	"	"	
Xylenes (total)	3190	100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.6 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	92.7 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

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Omar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/02/04 13:31

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-18 (B4G0407-07) Water Sampled: 07/15/04 09:50 Received: 07/15/04 16:51									
Gasoline Range Hydrocarbons	10700	2500	ug/l	50	4G20005	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	1570	25.0	"	"	"	"	"	"	
Toluene	124	25.0	"	"	"	"	"	"	
Ethylbenzene	283	25.0	"	"	"	"	"	"	
Xylenes (total)	1360	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	102 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	92.9 %	68-140			"	"	"	"	
01MW-04 (B4G0407-08) Water Sampled: 07/15/04 10:10 Received: 07/15/04 16:51									
Gasoline Range Hydrocarbons	9820	5000	ug/l	100	4G20005	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	2380	50.0	"	"	"	"	"	"	
Toluene	570	50.0	"	"	"	"	"	"	
Ethylbenzene	236	50.0	"	"	"	"	"	"	
Xylenes (total)	828	100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	96.0 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	90.6 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/02/04 13:31

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11MW-02 (B4G0407-02) Water Sampled: 07/15/04 07:50 Received: 07/15/04 16:51									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	111 %	50-150			"	"	"	"	
Surrogate: Octacosane	95.3 %	50-150			"	"	"	"	
11MW-03 (B4G0407-03) Water Sampled: 07/15/04 08:10 Received: 07/15/04 16:51									
Diesel Range Hydrocarbons	1.23	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	0.938	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	105 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.5 %	50-150			"	"	"	"	
01MW-09 (B4G0407-04) Water Sampled: 07/15/04 08:35 Received: 07/15/04 16:51									
Diesel Range Hydrocarbons	19.2	2.50	mg/l	10	4G20014	07/20/04	07/22/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	1	"	"	07/21/04	"	
Surrogate: 2-FBP	98.1 %	50-150			"	"	07/22/04	"	
Surrogate: Octacosane	106 %	50-150			"	"	07/21/04	"	
11MW-08 (B4G0407-05) Water Sampled: 07/15/04 09:05 Received: 07/15/04 16:51									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	108 %	50-150			"	"	"	"	
Surrogate: Octacosane	98.9 %	50-150			"	"	"	"	
11MW-19 (B4G0407-06) Water Sampled: 07/15/04 09:25 Received: 07/15/04 16:51									
Diesel Range Hydrocarbons	0.708	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	110 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.2 %	50-150			"	"	"	"	

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Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/02/04 13:31

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
01MW-18 (B4G0407-07) Water Sampled: 07/15/04 09:50 Received: 07/15/04 16:51										
Diesel Range Hydrocarbons	0.676	0.250		mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500		"	"	"	"	"	"	
Surrogate: 2-FBP	114 %	50-150				"	"	"	"	
Surrogate: Octacosane	104 %	50-150				"	"	"	"	
01MW-04 (B4G0407-08) Water Sampled: 07/15/04 10:10 Received: 07/15/04 16:51										
Diesel Range Hydrocarbons	0.333	0.250		mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500		"	"	"	"	"	"	
Surrogate: 2-FBP	114 %	50-150				"	"	"	"	
Surrogate: Octacosane	95.2 %	50-150				"	"	"	"	

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/02/04 13:31

Pentachlorophenol by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
11MW-09 (B4G0407-04) Water Sampled: 07/15/04 08:35 Received: 07/15/04 16:51									
Pentachlorophenol	ND	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	78.2 %	22-162			"	"	"	"	
11MW-19 (B4G0407-06) Water Sampled: 07/15/04 09:25 Received: 07/15/04 16:51									
Pentachlorophenol	1.32	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	91.6 %	22-162			"	"	"	"	
11MW-18 (B4G0407-07) Water Sampled: 07/15/04 09:50 Received: 07/15/04 16:51									
Pentachlorophenol	ND	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	87.6 %	22-162			"	"	"	"	

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/02/04 13:31
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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Batch 4G20005: Prepared 07/21/04 Using EPA 5030B (P/T)

Blank (4G20005-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	46.6		"	48.0		97.1	58-144			
Surrogate: 4-BFB (PID)	42.8		"	48.0		89.2	68-140			

LCS (4G20005-BS1)

Gasoline Range Hydrocarbons	464	50.0	ug/l	502		92.4	80-120			
Benzene	5.97	0.500	"	6.21		96.1	80-120			
Toluene	31.2	0.500	"	34.9		89.4	80-120			
Ethylbenzene	7.71	0.500	"	8.38		92.0	80-120			
Xylenes (total)	37.9	1.00	"	40.6		93.3	80-120			
Surrogate: 4-BFB (FID)	51.5		"	48.0		107	58-144			
Surrogate: 4-BFB (PID)	43.5		"	48.0		90.6	68-140			

LCS Dup (4G20005-BSD1)

Gasoline Range Hydrocarbons	495	50.0	ug/l	502		98.6	80-120	6.47	25	
Benzene	6.51	0.500	"	6.21		105	80-120	8.65	25	
Toluene	34.0	0.500	"	34.9		97.4	80-120	8.59	25	
Ethylbenzene	8.41	0.500	"	8.38		100	80-120	8.68	25	
Xylenes (total)	41.1	1.00	"	40.6		101	80-120	8.10	25	
Surrogate: 4-BFB (FID)	52.7		"	48.0		110	58-144			
Surrogate: 4-BFB (PID)	43.2		"	48.0		90.0	68-140			

Matrix Spike (4G20005-MS1)

Source: B4G0374-08

Gasoline Range Hydrocarbons	515	50.0	ug/l	502	27.1	97.2	58-129			
Benzene	6.53	0.500	"	6.21	ND	105	46-130			
Toluene	33.9	0.500	"	34.9	ND	97.1	60-124			
Ethylbenzene	8.34	0.500	"	8.38	ND	99.5	56-141			
Xylenes (total)	41.0	1.00	"	40.6	ND	101	66-132			
Surrogate: 4-BFB (FID)	52.7		"	48.0		110	58-144			
Surrogate: 4-BFB (PID)	43.8		"	48.0		91.2	68-140			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/02/04 13:31

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G20005: Prepared 07/21/04 Using EPA 5030B (P/T)

Matrix Spike Dup (4G20005-MSD1)

Source: B4G0374-08

Gasoline Range Hydrocarbons	488	50.0	ug/l	502	27.1	91.8	58-129	5.38	25	
Benzene	6.69	0.500	"	6.21	ND	108	46-130	2.42	40	
Toluene	35.0	0.500	"	34.9	ND	100	60-124	3.19	40	
o-xylbenzene	8.56	0.500	"	8.38	ND	102	56-141	2.60	40	
m-xylenes (total)	42.1	1.00	"	40.6	ND	104	66-132	2.65	40	
Surrogate: 4-BFB (FID)	49.0		"	48.0		102	58-144			
Surrogate: 4-BFB (PID)	43.7		"	48.0		91.0	68-140			

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/02/04 13:31
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**Semivolatle Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G20014: Prepared 07/20/04 Using EPA 3520C

Blank (4G20014-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.226		"	0.270		83.7	50-150			
Surrogate: Octacosane	0.187		"	0.195		95.9	50-150			

LCS (4G20014-BS1)

Diesel Range Hydrocarbons	1.26	0.250	mg/l	2.00		63.0	45-105			
Surrogate: 2-FBP	0.181		"	0.270		67.0	50-150			

LCS Dup (4G20014-BSD1)

Diesel Range Hydrocarbons	1.64	0.250	mg/l	2.00		82.0	45-105	26.2	50	
Surrogate: 2-FBP	0.308		"	0.270		114	50-150			

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
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Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/02/04 13:31

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4G22015: Prepared 07/22/04 Using EPA 3520C										
Blank (4G22015-BLK1)										
Pentachlorophenol	ND	0.500	ug/l							
Surrogate: 2,4,6-TBP	37.0		"	50.0		74.0	22-162			
LCS (4G22015-BS1)										
Pentachlorophenol	9.48	0.500	ug/l	20.0		47.4	20-128			
Surrogate: 2,4,6-TBP	37.9		"	50.0		75.8	22-162			
LCS Dup (4G22015-BSD1)										
Pentachlorophenol	14.0	0.500	ug/l	20.0		70.0	20-128	38.5	50	
Surrogate: 2,4,6-TBP	42.4		"	50.0		84.8	22-162			

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/02/04 13:31
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Notes and Definitions

- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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 3209 Denali St, Anchorage, AK 99503-4030

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 503-906-9200 FAX 906-9210
 541-383-9310 FAX 382-7588
 907-334-9200 FAX 334-9210

CHAIN OF CUSTODY REPORT

Work Order #: **B717407**

CLIENT: **Time Oil Company**
 REPORT TO: **Scott Sloan (cc B.Graham @TTFWI)**
 ADDRESS: **2737 W. Commodore Way, Seattle WA 98199**
 PHONE: **206 2866457** FAX:
 PROJECT NAME: **Quarterly Groundwater Monitoring July 04**
 PROJECT NUMBER: **2806.3312.0012.0004**
 SAMPLED BY: **E Tobey RNEINGARZ**

INVOICE TO: **Same as left**
 P.O. NUMBER:
 PRESERVATIVE:
 REQUESTED ANALYSES:

TURNAROUND REQUEST

In Business Days *

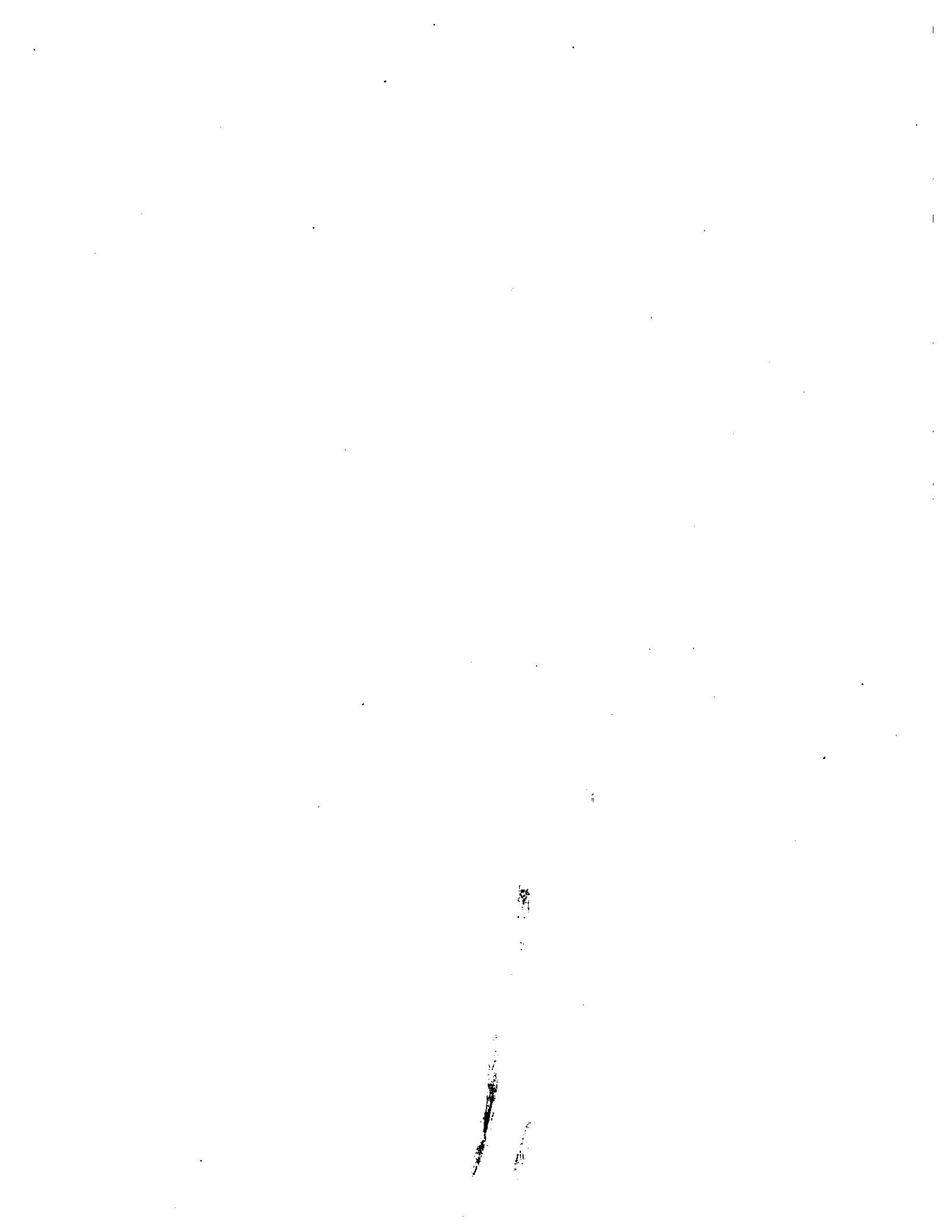
Organic & Inorganic Analyses
 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 4 3 2 1 <1

OTHER Specify:
 Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
W	1	-	01
W	5	-	02
W	5	-	03
W	7	-	04
W	5	-	05
W	7	-	06
W	7	-	07
W	5	-	08

RELEASED BY: **Ellen Tobey** DATE: **7/15/04**
 PRINT NAME: **Ellen Tobey** FIRM: **TTFWI** RECEIVED BY: **Tom D. Long** DATE: **7/15/04**
 RECEIVED BY: **Blankinship** FIRM: **NCA**
 DATE: TIME: DATE: TIME:
 FIRM: FIRM:
 ADDITIONAL REMARKS: **Silica Gel Clean up on Diesel Samples**
 COC REV 103





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03 August 2004

Bryan Graham
Tetra Tech FW, Inc. - Bothell
2100 NE 195th St
Bothell, WA/USA 98011

RE: Time Oil-West Commodore Way

Enclosed are the results of analyses for samples received by the laboratory on 07/16/04 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager

1



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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/03/04 09:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01MW-TB03	B4G0420-01	Water	07/16/04 07:40	07/16/04 15:20
01MW-11	B4G0420-02	Water	07/16/04 07:50	07/16/04 15:20
01MW-06	B4G0420-03	Water	07/16/04 08:15	07/16/04 15:20
01MW-26	B4G0420-04	Water	07/16/04 08:45	07/16/04 15:20
01MW-27	B4G0420-05	Water	07/16/04 09:10	07/16/04 15:20
01MW-01	B4G0420-06	Water	07/16/04 09:40	07/16/04 15:20
01MW-15	B4G0420-07	Water	07/16/04 10:05	07/16/04 15:20
01MW-20	B4G0420-08	Water	07/16/04 10:40	07/16/04 15:20

North Creek Analytical - Bothell

Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell Project: Time Oil-West Commodore Way
 12100 NE 195th St Project Number: 2306.3312.0012.0004 Reported:
 Bothell, WA/USA 98011 Project Manager: Bryan Graham 08/03/04 09:42

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-TB03 (B4G0420-01) Water Sampled: 07/16/04 07:40 Received: 07/16/04 15:20									
Benzene	ND	0.500	ug/l	1	4G21008	07/21/04	07/22/04	NWTPH-Gx/8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	100 %	68-140			"	"	"	"	
01MW-TB03 (B4G0420-01RE1) Water Sampled: 07/16/04 07:40 Received: 07/16/04 15:20									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G22070	07/22/04	07/23/04	NWTPH-Gx/8021B	
Surrogate: 4-BFB (FID)	86.5 %	58-144			"	"	"	"	
01MW-11 (B4G0420-02) Water Sampled: 07/16/04 07:50 Received: 07/16/04 15:20									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G21008	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	107 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	68-140			"	"	"	"	
01MW-06 (B4G0420-03) Water Sampled: 07/16/04 08:15 Received: 07/16/04 15:20									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G21008	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	97.3 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/03/04 09:42

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1MW-26 (B4G0420-04) Water Sampled: 07/16/04 08:45 Received: 07/16/04 15:20										
Gasoline Range Hydrocarbons	137	50.0		ug/l	1	4G21008	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	9.69	0.500		"	"	"	"	"	"	
oluene	0.706	0.500		"	"	"	"	"	"	
methylbenzene	3.56	0.500		"	"	"	"	"	"	
Xylenes (total)	4.92	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	97.3 %	58-144				"	"	"	"	
Surrogate: 4-BFB (PID)	95.0 %	68-140				"	"	"	"	
01MW-27 (B4G0420-05) Water Sampled: 07/16/04 09:10 Received: 07/16/04 15:20										
Gasoline Range Hydrocarbons	10900	500		ug/l	10	4G21008	07/21/04	07/21/04	NWTPH-Gx/8021B	
Benzene	6220	50.0		"	100	"	"	07/22/04	"	
Toluene	43.9	5.00		"	10	"	"	07/21/04	"	
methylbenzene	70.4	5.00		"	"	"	"	"	"	
Xylenes (total)	50.0	10.0		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	96.9 %	58-144				"	"	"	"	
Surrogate: 4-BFB (PID)	100 %	68-140				"	"	"	"	
01MW-01 (B4G0420-06) Water Sampled: 07/16/04 09:40 Received: 07/16/04 15:20										
Benzene	3.66	0.500		ug/l	1	4G21008	07/21/04	07/22/04	NWTPH-Gx/8021B	
oluene	0.766	0.500		"	"	"	"	"	"	
methylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	1.80	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	98.8 %	68-140				"	"	"	"	
01MW-01 (B4G0420-06RE1) Water Sampled: 07/16/04 09:40 Received: 07/16/04 15:20										
Gasoline Range Hydrocarbons	55.9	50.0		ug/l	1	4G22070	07/22/04	07/23/04	NWTPH-Gx/8021B	
Surrogate: 4-BFB (FID)	80.2 %	58-144				"	"	"	"	

North Creek Analytical - Bothell

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Omar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/03/04 09:42

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Result	Limit							

01MW-15 (B4G0420-07) Water Sampled: 07/16/04 10:05 Received: 07/16/04 15:20

Benzene	ND	0.500	ug/l	1	4G21008	07/21/04	07/22/04	NWTPH-Gx/8021B		
Toluene	ND	0.500	"	"	"	"	"	"		
Ethylbenzene	ND	0.500	"	"	"	"	"	"		
Xylenes (total)	ND	1.00	"	"	"	"	"	"		
Surrogate: 4-BFB (PID)	102 %	68-140			"	"	"	"		

01MW-15 (B4G0420-07RE1) Water Sampled: 07/16/04 10:05 Received: 07/16/04 15:20

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G22070	07/22/04	07/23/04	NWTPH-Gx/8021B		
Surrogate: 4-BFB (FID)	80.4 %	58-144			"	"	"	"		

01MW-20 (B4G0420-08) Water Sampled: 07/16/04 10:40 Received: 07/16/04 15:20

Benzene	13.2	0.500	ug/l	1	4G21008	07/21/04	07/22/04	NWTPH-Gx/8021B		
Toluene	3.86	0.500	"	"	"	"	"	"		
Ethylbenzene	21.9	0.500	"	"	"	"	"	"		
Xylenes (total)	29.5	1.00	"	"	"	"	"	"		
Surrogate: 4-BFB (PID)	107 %	68-140			"	"	"	"		

01MW-20 (B4G0420-08RE1) Water Sampled: 07/16/04 10:40 Received: 07/16/04 15:20

Gasoline Range Hydrocarbons	573	50.0	ug/l	1	4G22070	07/22/04	07/23/04	NWTPH-Gx/8021B		
Surrogate: 4-BFB (FID)	110 %	58-144			"	"	"	"		

North Creek Analytical - Bothell

Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/03/04 09:42

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
1MW-11 (B4G0420-02) Water Sampled: 07/16/04 07:50 Received: 07/16/04 15:20									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	107 %	50-150			"	"	"	"	
Surrogate: Octacosane	101 %	50-150			"	"	"	"	
1MW-06 (B4G0420-03) Water Sampled: 07/16/04 08:15 Received: 07/16/04 15:20									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	96.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	84.0 %	50-150			"	"	"	"	
01MW-26 (B4G0420-04) Water Sampled: 07/16/04 08:45 Received: 07/16/04 15:20									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	100 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.9 %	50-150			"	"	"	"	
1MW-27 (B4G0420-05) Water Sampled: 07/16/04 09:10 Received: 07/16/04 15:20									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	100 %	50-150			"	"	"	"	
Surrogate: Octacosane	83.3 %	50-150			"	"	"	"	
1MW-01 (B4G0420-06) Water Sampled: 07/16/04 09:40 Received: 07/16/04 15:20									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	93.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	87.4 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Omar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/03/04 09:42
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**Semivolatle Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-15 (B4G0420-07) Water Sampled: 07/16/04 10:05 Received: 07/16/04 15:20									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	83.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	76.3 %	50-150			"	"	"	"	
01MW-20 (B4G0420-08) Water Sampled: 07/16/04 10:40 Received: 07/16/04 15:20									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G20014	07/20/04	07/21/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	93.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	88.7 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

Amar Gill, Project Manager

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North Creek Analytical, Inc.
 Environmental Laboratory Network



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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/03/04 09:42

Pentachlorophenol by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11MW-06 (B4G0420-03) Water Sampled: 07/16/04 08:15 Received: 07/16/04 15:20									
Pentachlorophenol	ND	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	91.1 %	22-162			"	"	"	"	
11MW-26 (B4G0420-04) Water Sampled: 07/16/04 08:45 Received: 07/16/04 15:20									
Pentachlorophenol	40.5	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	94.0 %	22-162			"	"	"	"	
11MW-27 (B4G0420-05) Water Sampled: 07/16/04 09:10 Received: 07/16/04 15:20									
Pentachlorophenol	50.7	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	95.8 %	22-162			"	"	"	"	
11MW-01 (B4G0420-06) Water Sampled: 07/16/04 09:40 Received: 07/16/04 15:20									
Pentachlorophenol	8.94	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	93.2 %	22-162			"	"	"	"	
01MW-15 (B4G0420-07) Water Sampled: 07/16/04 10:05 Received: 07/16/04 15:20									
Pentachlorophenol	ND	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	85.5 %	22-162			"	"	"	"	
01MW-20 (B4G0420-08) Water Sampled: 07/16/04 10:40 Received: 07/16/04 15:20									
Pentachlorophenol	ND	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	81.5 %	22-162			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/03/04 09:42
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G21008: Prepared 07/21/04 Using EPA 5030B (P/T)

Blank (4G21008-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	42.7		"	48.0		89.0	58-144			
Surrogate: 4-BFB (PID)	48.7		"	48.0		101	68-140			

LCS (4G21008-BS1)

Gasoline Range Hydrocarbons	490	50.0	ug/l	500		98.0	80-120			
Benzene	6.17	0.500	"	6.20		99.5	80-120			
Toluene	32.9	0.500	"	34.8		94.5	80-120			
Ethylbenzene	8.08	0.500	"	8.35		96.8	80-120			
Xylenes (total)	39.3	1.00	"	40.5		97.0	80-120			
Surrogate: 4-BFB (FID)	52.4		"	48.0		109	58-144			
Surrogate: 4-BFB (PID)	48.5		"	48.0		101	68-140			

LCS Dup (4G21008-BS1)

Gasoline Range Hydrocarbons	507	50.0	ug/l	500		101	80-120	3.41	25	
Benzene	6.19	0.500	"	6.20		99.8	80-120	0.324	25	
Toluene	32.7	0.500	"	34.8		94.0	80-120	0.610	25	
Ethylbenzene	8.20	0.500	"	8.35		98.2	80-120	1.47	25	
Xylenes (total)	40.0	1.00	"	40.5		98.8	80-120	1.77	25	
Surrogate: 4-BFB (FID)	54.7		"	48.0		114	58-144			
Surrogate: 4-BFB (PID)	47.8		"	48.0		99.6	68-140			

Matrix Spike (4G21008-MS1)

Source: B4G0428-01

Gasoline Range Hydrocarbons	513	50.0	ug/l	500	19.7	98.7	58-129			
Benzene	5.25	0.500	"	6.20	ND	84.7	46-130			
Toluene	28.9	0.500	"	34.8	0.111	82.7	60-124			
Ethylbenzene	6.93	0.500	"	8.35	ND	83.0	56-141			
Xylenes (total)	33.3	1.00	"	40.5	ND	82.2	66-132			
Surrogate: 4-BFB (FID)	47.2		"	48.0		98.3	58-144			
Surrogate: 4-BFB (PID)	35.2		"	48.0		73.3	68-140			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/03/04 09:42

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G21008: Prepared 07/21/04 Using EPA 5030B (P/T)

Matrix Spike Dup (4G21008-MSD1)

Source: B4G0428-01

Gasoline Range Hydrocarbons	469	50.0	ug/l	500	19.7	89.9	58-129	8.96	25	
Benzene	5.22	0.500	"	6.20	ND	84.2	46-130	0.573	40	
Toluene	29.3	0.500	"	34.8	0.111	83.9	60-124	1.37	40	
Ethylbenzene	6.81	0.500	"	8.35	ND	81.6	56-141	1.75	40	
Xylenes (total)	33.2	1.00	"	40.5	ND	82.0	66-132	0.301	40	
Surrogate: 4-BFB (FID)	44.6		"	48.0		92.9	58-144			
Surrogate: 4-BFB (PID)	35.3		"	48.0		73.5	68-140			

Batch 4G22070: Prepared 07/22/04 Using EPA 5030B (P/T)

Blank (4G22070-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	37.3		"	48.0		77.7	58-144			
Surrogate: 4-BFB (PID)	39.3		"	48.0		81.9	68-140			

LCS (4G22070-BS1)

Gasoline Range Hydrocarbons	588	50.0	ug/l	502		117	80-120			
Benzene	5.31	0.500	"	6.21		85.5	80-120			
Toluene	29.1	0.500	"	34.9		83.4	80-120			
Ethylbenzene	6.92	0.500	"	8.38		82.6	80-120			
Xylenes (total)	33.7	1.00	"	40.6		83.0	80-120			
Surrogate: 4-BFB (FID)	47.7		"	48.0		99.4	58-144			
Surrogate: 4-BFB (PID)	34.1		"	48.0		71.0	68-140			

North Creek Analytical - Bothell

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Omar Gill, Project Manager

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 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/03/04 09:42

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G22070: Prepared 07/22/04 Using EPA 5030B (P/T)

LCS Dup (4G22070-BSD1)

Gasoline Range Hydrocarbons	563	50.0	ug/l	502		112	80-120	4.34	25	
Benzene	5.52	0.500	"	6.21		88.9	80-120	3.88	25	
Toluene	30.5	0.500	"	34.9		87.4	80-120	4.70	25	
Ethylbenzene	7.25	0.500	"	8.38		86.5	80-120	4.66	25	
Xylenes (total)	35.1	1.00	"	40.6		86.5	80-120	4.07	25	
Surrogate: 4-BFB (FID)	44.5		"	48.0		92.7	58-144			
Surrogate: 4-BFB (PID)	34.4		"	48.0		71.7	68-140			

Matrix Spike (4G22070-MS1)

Source: B4G0433-13

Gasoline Range Hydrocarbons	464	50.0	ug/l	502	17.0	89.0	58-129			
Benzene	5.56	0.500	"	6.21	ND	89.5	46-130			
Toluene	31.0	0.500	"	34.9	0.536	87.3	60-124			
Ethylbenzene	7.23	0.500	"	8.38	ND	86.3	56-141			
Xylenes (total)	35.3	1.00	"	40.6	ND	86.9	66-132			
Surrogate: 4-BFB (FID)	39.0		"	48.0		81.2	58-144			
Surrogate: 4-BFB (PID)	34.5		"	48.0		71.9	68-140			

Matrix Spike Dup (4G22070-MSD1)

Source: B4G0433-13

Gasoline Range Hydrocarbons	485	50.0	ug/l	502	17.0	93.2	58-129	4.43	25	
Benzene	5.20	0.500	"	6.21	ND	83.7	46-130	6.69	40	
Toluene	29.2	0.500	"	34.9	0.536	82.1	60-124	5.98	40	
Ethylbenzene	6.80	0.500	"	8.38	ND	81.1	56-141	6.13	40	
Xylenes (total)	33.2	1.00	"	40.6	ND	81.8	66-132	6.13	40	
Surrogate: 4-BFB (FID)	49.0		"	48.0		102	58-144			
Surrogate: 4-BFB (PID)	36.0		"	48.0		75.0	68-140			

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/03/04 09:42

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4G20014: Prepared 07/20/04 Using EPA 3520C										
Blank (4G20014-BLK1)										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
ube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.226		"	0.270		83.7	50-150			
Surrogate: Octacosane	0.187		"	0.195		95.9	50-150			
.CS (4G20014-BS1)										
Diesel Range Hydrocarbons	1.26	0.250	mg/l	2.00		63.0	45-105			
Surrogate: 2-FBP	0.181		"	0.270		67.0	50-150			
.CS Dup (4G20014-BSD1)										
Diesel Range Hydrocarbons	1.64	0.250	mg/l	2.00		82.0	45-105	26.2	50	
urrogate: 2-FBP	0.308		"	0.270		114	50-150			

North Creek Analytical - Bothell

Umar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/03/04 09:42

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4G22015: Prepared 07/22/04 Using EPA 3520C										
Blank (4G22015-BLK1)										
Pentachlorophenol	ND	0.500	ug/l							
Surrogate: 2,4,6-TBP	37.0		"	50.0		74.0	22-162			
LCS (4G22015-BS1)										
Pentachlorophenol	9.48	0.500	ug/l	20.0		47.4	20-128			
Surrogate: 2,4,6-TBP	37.9		"	50.0		75.8	22-162			
LCS Dup (4G22015-BSD1)										
Pentachlorophenol	14.0	0.500	ug/l	20.0		70.0	20-128	38.5	50	
Surrogate: 2,4,6-TBP	42.4		"	50.0		84.8	22-162			

North Creek Analytical - Bothell

Amar Gill, Project Manager

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12100 NE 195th St
Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
Project Number: 2306.3312.0012.0004
Project Manager: Bryan Graham

Reported:
08/03/04 09:42

Notes and Definitions

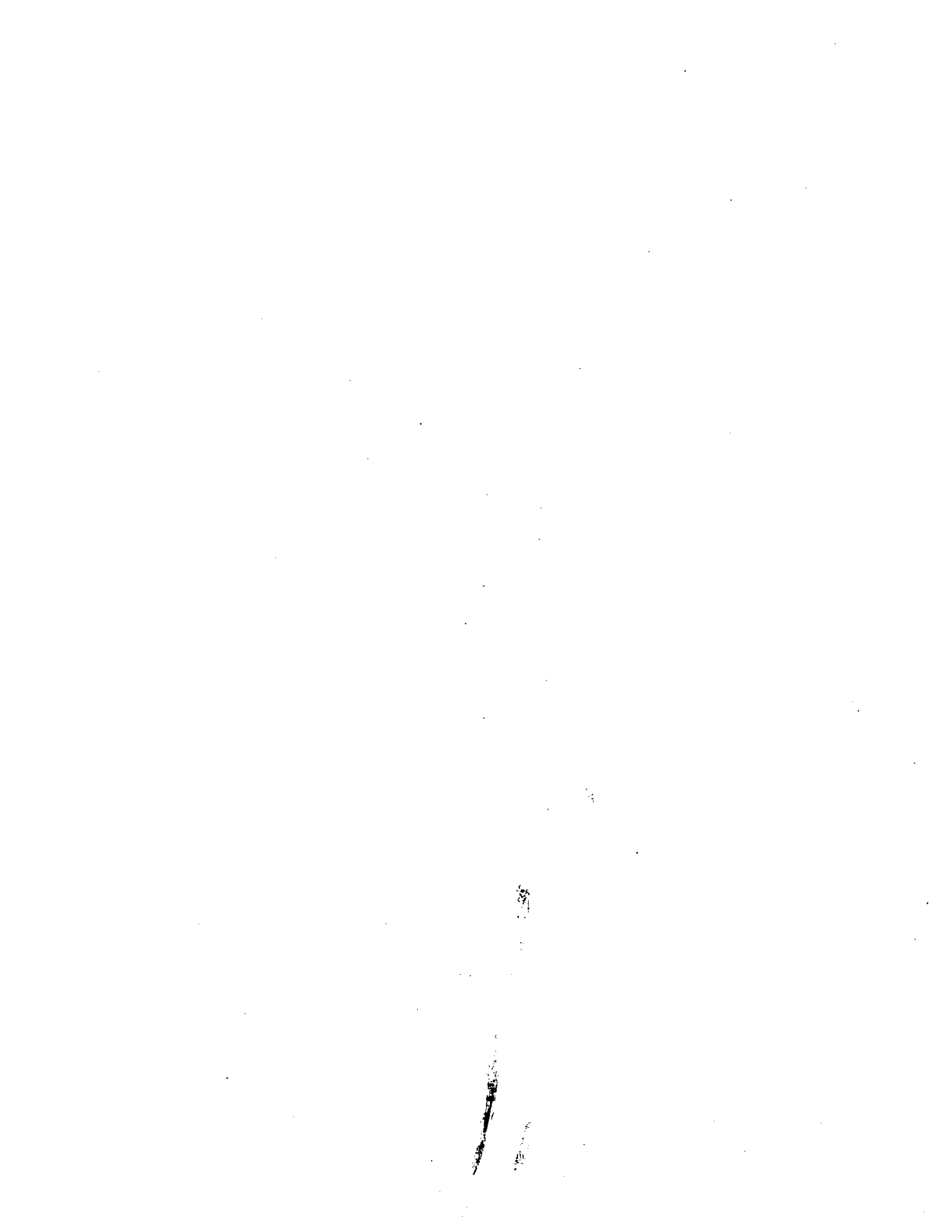
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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CHAIN OF CUSTODY REPORT

Work Order #: **BAG0420**

CLIENT: Time Oil Company		INVOICE TO:	
REPORT TO: Scott Sloan (cc B. Graham @ TTFWI)		Same as left	
ADDRESS: 2737 W. Commodore Way Seattle WA 98199		P.O. NUMBER:	
PHONE: 206 286 6457 FAX:		PRESERVATIVE	
PROJECT NAME: Quarterly Groundwater Monitoring July 04		REQUESTED ANALYSES	
PROJECT NUMBER: 2306.3317.0012.0001		HCl HCl	
SAMPLED BY: E. Tobey RWEINGARZ		WTPH WTPH	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	WTPH	HCl
1. OIMW-TB03	7/16/04 0740	X	X
2. OIMW-11	7/16/04 0750	X	X
3. OIMW-06	7/16/04 0815	X	X
4. OIMW-26	7/16/04 0845	X	X
5. OIMW-27	7/16/04 0910	X	X
6. OIMW-01	7/16/04 0940	X	X
7. OIMW-15	7/16/04 1005	X	X
8. OIMW-20	7/16/04 1040	X	X
9			
10			

Samples were not @ 2-60 upon receipt

TURNAROUND REQUEST	Organic & Inorganic Analyses	7	5	4	3	2	1	<1
	Petroleum Hydrocarbon Analyses	4	3	2	1	<1		
OTHER	Specify:							

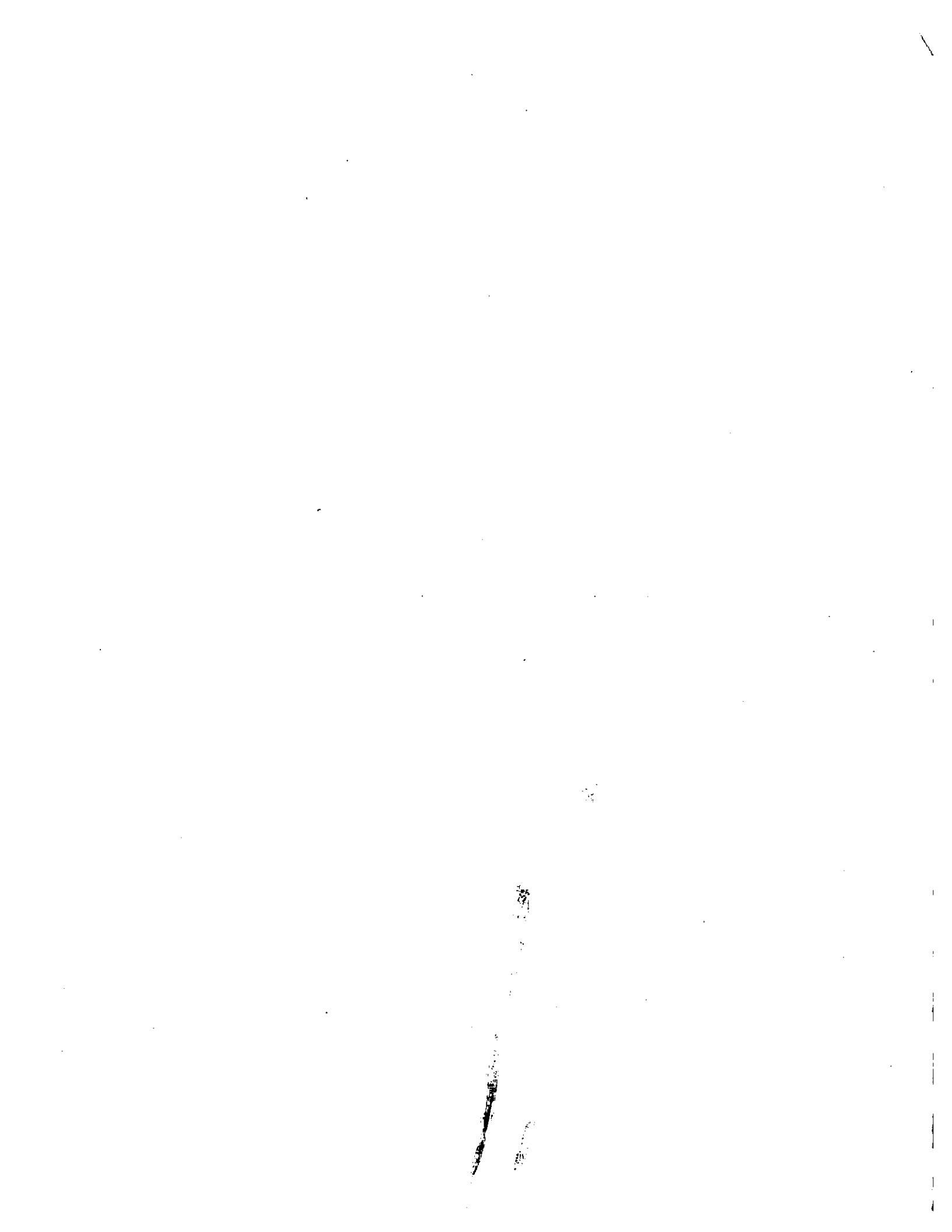
* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
W	1	-	01
W	5	-	02
W	7	-	03
W	7	-	04
W	7	-	05
W	7	-	06
W	7	-	07
W	7	-	08

RECEIVED BY: Tom Blain	DATE: 7/16/04	FIRM: NCA
PRINT NAME: Blainship	TIME: 1520	DATE: 7/16/04
RECEIVED BY:	DATE:	TIME:
PRINT NAME:	DATE:	TIME:

ADDITIONAL REMARKS: **Silica Gel Clean up on Piesel Samples (3 coats) W/CS**

TEMP: **8.5** PAGE **1** OF **1**





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17 August 2004

Bryan Graham
Tetra Tech FW, Inc. - Bothell
12100 NE 195th St
Bothell, WA/USA 98011
RE: Time Oil-West Commodore Way

Enclosed are the results of analyses for samples received by the laboratory on 07/19/04 16:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager

1



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CASE NARRATIVE for B4G0467

Client: Tetra Tech FW, Inc.
Project Manager: Bryan Graham
Project Name: Time Oil West Commodore Way
Project Number: 2306.3312.0012.0004

1.0 DESCRIPTION OF CASE

Four (4) water samples were submitted for the analysis of:

- Gasoline Hydrocarbons and BTEX by NWTPH-G and 8021B
- Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
- Pentachlorophenol by GC/MS with Selective Ion Monitoring

2.0 COMMENTS ON SAMPLE RECEIPT

The sample was received 19th July 2004 at a temperature of 5.3°C and logged in 20th July 2004.

3.0 PREPARATION AND ANALYSIS


Gasoline Hydrocarbons and BTEX by NWTPH-G and 8021B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up

The samples were initially extracted into analytical batch, 4G21010. During preparation a portion of the Blank Spike Duplicate (BSD) extract was lost. Upon analysis low spike and surrogate recoveries were observed in the BSD along with a high Relative Percent Difference (RPD) from the batch Blank Spike (BS). Since the BSD was the only indicator for batch extraction precision re-extraction was recommended.

The samples were re-extracted within method established hold times in analytical batch 4G27027. Both surrogates in the analytical batch Blank were below the method established control limits. The Relative Percent Difference (RPD) for the Diesel Range Hydrocarbon spikes was above the method established control limit. The project sample surrogates were within control limits but due to the other analytical batch specific issues the samples were re-extracted. The samples were re-extracted into analytical batch 4H03067 outside the method established hold time. All batch



Amar Gill
Project Manager
North Creek Analytical



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CASE NARRATIVE for B4G0467

QC surrogate and spike recoveries were within control limits in analytical batch 4H03067. Both the original and re-extracted sample results were reported for client review. No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Pentachlorophenol by GCMS with Selective Ion Monitoring

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Amar Gill
Project Manager
North Creek Analytical



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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 23063312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 16:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01MW-TB04	B4G0467-01	Water	07/19/04 08:00	07/19/04 16:34
01MW-29	B4G0467-02	Water	07/19/04 08:35	07/19/04 16:34
01MW-28A	B4G0467-03	Water	07/19/04 08:55	07/19/04 16:34
01MW-28B	B4G0467-04	Water	07/19/04 09:05	07/19/04 16:34

North Creek Analytical - Bothell

Mar Gill, Project Manager

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 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 23063312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 16:11

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-TB04 (B4G0467-01) Water Sampled: 07/19/04 08:00 Received: 07/19/04 16:34									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G25003	07/25/04	07/25/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	"
Toluene	ND	0.500	"	"	"	"	"	"	"
Ethylbenzene	ND	0.500	"	"	"	"	"	"	"
Xylenes (total)	ND	1.00	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	94.2 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	97.9 %	68-140			"	"	"	"	"
01MW-29 (B4G0467-02) Water Sampled: 07/19/04 08:35 Received: 07/19/04 16:34									
Gasoline Range Hydrocarbons	17800	5000	ug/l	100	4G25003	07/25/04	07/25/04	NWTPH-Gx/8021B	
Benzene	5410	50.0	"	"	"	"	"	"	"
Toluene	167	50.0	"	"	"	"	"	"	"
Ethylbenzene	256	50.0	"	"	"	"	"	"	"
Xylenes (total)	718	100	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	100 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	99.8 %	68-140			"	"	"	"	"
01MW-28A (B4G0467-03) Water Sampled: 07/19/04 08:55 Received: 07/19/04 16:34									
Gasoline Range Hydrocarbons	17900	1000	ug/l	20	4G25003	07/25/04	07/25/04	NWTPH-Gx/8021B	
Benzene	5060	50.0	"	100	"	"	07/25/04	"	"
Toluene	1910	10.0	"	20	"	"	07/25/04	"	"
Ethylbenzene	343	10.0	"	"	"	"	"	"	"
Xylenes (total)	1230	20.0	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	104 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	107 %	68-140			"	"	"	"	"

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
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 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 23063312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 16:11

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1MW-28B (B4G0467-04) Water Sampled: 07/19/04 09:05 Received: 07/19/04 16:34										
Gasoline Range Hydrocarbons	18400	500		ug/l	10	4G25003	07/25/04	07/25/04	NWTPH-Gx/8021B	
Benzene	5030	50.0		"	100	"	"	07/25/04	"	
Toluene	1810	50.0		"	"	"	"	"	"	
Ethylbenzene	355	5.00		"	10	"	"	07/25/04	"	
Xylenes (total)	1250	10.0		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.8 %	58-144				"	"	"	"	
Surrogate: 4-BFB (PID)	111 %	68-140				"	"	"	"	

North Creek Analytical - Bothell

Omar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 23063312.0012.0004 Project Manager: Bryan Graham	Reported: 08/17/04 16:11
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**Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-29 (B4G0467-02) Water Sampled: 07/19/04 08:35 Received: 07/19/04 16:34 X									
Diesel Range Hydrocarbons	11.1	2.50	mg/l	10	4G21010	07/21/04	07/23/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	1	"	"	07/22/04	"	
Surrogate: 2-FBP	%	50-150			"	"	07/23/04	"	S-02
Surrogate: Octacosane	90.8 %	50-150			"	"	07/22/04	"	
01MW-29 (B4G0467-02RE1) Water Sampled: 07/19/04 08:35 Received: 07/19/04 16:34 X									
Diesel Range Hydrocarbons	14.3	2.50	mg/l	10	4G27027	07/27/04	07/31/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	5.00	"	"	"	"	"	"	
Surrogate: 2-FBP	135 %	50-150			"	"	"	"	
Surrogate: Octacosane	76.4 %	50-150			"	"	"	"	
01MW-29 (B4G0467-02RE2) Water Sampled: 07/19/04 08:35 Received: 07/19/04 16:34 X									
Diesel Range Hydrocarbons	11.3	2.50	mg/l	10	4H03067	08/03/04	08/10/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	5.00	"	"	"	"	"	"	
Surrogate: 2-FBP	92.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.5 %	50-150			"	"	"	"	
01MW-28A (B4G0467-03) Water Sampled: 07/19/04 08:55 Received: 07/19/04 16:34 X									
Diesel Range Hydrocarbons	0.763	0.250	mg/l	1	4G21010	07/21/04	07/22/04	NWTPH-Dx	A-01
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	88.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	91.3 %	50-150			"	"	"	"	
01MW-28A (B4G0467-03RE1) Water Sampled: 07/19/04 08:55 Received: 07/19/04 16:34 X									
Diesel Range Hydrocarbons	1.43	0.250	mg/l	1	4G27027	07/27/04	07/29/04	NWTPH-Dx	A-01
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	102 %	50-150			"	"	"	"	
Surrogate: Octacosane	84.8 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 23063312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 16:11

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-28A (B4G0467-03RE2) Water Sampled: 07/19/04 08:55 Received: 07/19/04 16:34 X									
Diesel Range Hydrocarbons	1.44	0.250	mg/l	1	4H03067	08/03/04	08/10/04	NWTPH-Dx	A-01
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	110 %	50-150			"	"	"	"	
Surrogate: Octacosane	108 %	50-150			"	"	"	"	
01MW-28B (B4G0467-04) Water Sampled: 07/19/04 09:05 Received: 07/19/04 16:34 X									
Diesel Range Hydrocarbons	0.402	0.250	mg/l	1	4G21010	07/21/04	07/22/04	NWTPH-Dx	A-01
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	58.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	76.1 %	50-150			"	"	"	"	
01MW-28B (B4G0467-04RE1) Water Sampled: 07/19/04 09:05 Received: 07/19/04 16:34 X									
Diesel Range Hydrocarbons	1.68	0.250	mg/l	1	4G27027	07/27/04	08/01/04	NWTPH-Dx	A-01
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	161 %	50-150			"	"	"	"	
Surrogate: Octacosane	123 %	50-150			"	"	"	"	
01MW-28B (B4G0467-04RE2) Water Sampled: 07/19/04 09:05 Received: 07/19/04 16:34 X									
Diesel Range Hydrocarbons	0.888	0.250	mg/l	1	4H03067	08/03/04	08/10/04	NWTPH-Dx	A-01
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	105 %	50-150			"	"	"	"	
Surrogate: Octacosane	98.4 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 23063312.0012.0004 Project Manager: Bryan Graham	Reported: 08/17/04 16:11
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Pentachlorophenol by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-29 (B4G0467-02) Water Sampled: 07/19/04 08:35 Received: 07/19/04 16:34									
Pentachlorophenol	9.11	2.50	ug/l	5	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	94.1 %	22-162			"	"	"	"	
01MW-28A (B4G0467-03) Water Sampled: 07/19/04 08:55 Received: 07/19/04 16:34									
Pentachlorophenol	2.44	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	78.0 %	22-162			"	"	"	"	
01MW-28B (B4G0467-04) Water Sampled: 07/19/04 09:05 Received: 07/19/04 16:34									
Pentachlorophenol	2.28	0.500	ug/l	1	4G22015	07/22/04	07/30/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	82.2 %	22-162			"	"	"	"	

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
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 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 23063312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 16:11

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G25003: Prepared 07/25/04 Using EPA 5030B (P/T)

Blank (4G25003-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	37.5		"	48.0		78.1	58-144			
Surrogate: 4-BFB (PID)	47.4		"	48.0		98.8	68-140			

LCS (4G25003-BS1)

Gasoline Range Hydrocarbons	597	50.0	ug/l	500		119	80-120			
Benzene	6.36	0.500	"	6.20		103	80-120			
Toluene	33.3	0.500	"	34.8		95.7	80-120			
Ethylbenzene	8.43	0.500	"	8.35		101	80-120			
Xylenes (total)	39.9	1.00	"	40.5		98.5	80-120			
Surrogate: 4-BFB (FID)	51.1		"	48.0		106	58-144			
Surrogate: 4-BFB (PID)	45.9		"	48.0		95.6	68-140			

LCS Dup (4G25003-BSD1)

Gasoline Range Hydrocarbons	567	50.0	ug/l	500		113	80-120	5.15	25	
Benzene	6.46	0.500	"	6.20		104	80-120	1.56	25	
Toluene	33.6	0.500	"	34.8		96.6	80-120	0.897	25	
Ethylbenzene	8.44	0.500	"	8.35		101	80-120	0.119	25	
Xylenes (total)	40.2	1.00	"	40.5		99.3	80-120	0.749	25	
Surrogate: 4-BFB (FID)	52.1		"	48.0		109	58-144			
Surrogate: 4-BFB (PID)	47.1		"	48.0		98.1	68-140			

Matrix Spike (4G25003-MS1)

Source: B4G0367-03

Gasoline Range Hydrocarbons	512	50.0	ug/l	500	39.0	94.6	58-129			
Benzene	6.57	0.500	"	6.20	ND	106	46-130			
Toluene	33.6	0.500	"	34.8	0.262	95.8	60-124			
Ethylbenzene	8.46	0.500	"	8.35	0.167	99.3	56-141			
Xylenes (total)	40.5	1.00	"	40.5	ND	100	66-132			
Surrogate: 4-BFB (FID)	46.8		"	48.0		97.5	58-144			
Surrogate: 4-BFB (PID)	47.3		"	48.0		98.5	68-140			

North Creek Analytical - Bothell

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Reported:
 08/17/04 16:11

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G25003: Prepared 07/25/04 Using EPA 5030B (P/T)

Matrix Spike Dup (4G25003-MSD1)

Source: B4G0367-03

Gasoline Range Hydrocarbons	510	50.0	ug/l	500	39.0	94.2	58-129	0.391	25	
Benzene	6.48	0.500	"	6.20	ND	105	46-130	1.38	40	
Toluene	33.5	0.500	"	34.8	0.262	95.5	60-124	0.298	40	
Ethylbenzene	8.37	0.500	"	8.35	0.167	98.2	56-141	1.07	40	
Xylenes (total)	39.9	1.00	"	40.5	ND	98.5	66-132	1.49	40	
Surrogate: 4-BFB (FID)	48.9		"	48.0		102	58-144			
Surrogate: 4-BFB (PID)	46.0		"	48.0		95.8	68-140			

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Reported:
 08/17/04 16:11

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4G21010: Prepared 07/21/04 Using EPA 3520C

Blank (4G21010-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.228		"	0.270		84.4	50-150			
Surrogate: Octacosane	0.171		"	0.195		87.7	50-150			

LCS (4G21010-BS1)

Diesel Range Hydrocarbons	1.35	0.250	mg/l	2.00		67.5	45-105			
Surrogate: 2-FBP	0.218		"	0.270		80.7	50-150			

LCS Dup (4G21010-BSD1)

Diesel Range Hydrocarbons	0.554	0.250	mg/l	2.00		27.7	45-105	83.6	50	X
Surrogate: 2-FBP	0.0840		"	0.270		31.1	50-150			

Batch 4G27027: Prepared 07/27/04 Using EPA 3520C

Blank (4G27027-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							X
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.0950		"	0.270		35.2	50-150			
Surrogate: Octacosane	0.0803		"	0.195		41.2	50-150			

LCS (4G27027-BS1)

Diesel Range Hydrocarbons	1.54	0.250	mg/l	2.00		77.0	45-105			X
Surrogate: 2-FBP	0.235		"	0.270		87.0	50-150			

LCS (4G27027-BS2)

Lube Oil Range Hydrocarbons	1.55	0.500	mg/l	2.00		77.5	50-150			X
Surrogate: Octacosane	0.153		"	0.195		78.5	50-150			

North Creek Analytical - Bothell

Amar Gill, Project Manager

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North Creek Analytical, Inc.
 Environmental Laboratory Network



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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 23063312.0012.0004 Project Manager: Bryan Graham	Reported: 08/17/04 16:11
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**Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G27027: Prepared 07/27/04 Using EPA 3520C

LCS Dup (4G27027-BSD1) X

Diesel Range Hydrocarbons	0.923	0.250	mg/l	2.00		46.2	45-105	50.1	50	
Surrogate: 2-FBP	0.145		"	0.270		53.7	50-150			
Surrogate: Octacosane	0.0998		"	0.195		51.2	50-150			

LCS Dup (4G27027-BSD2) X

Lube Oil Range Hydrocarbons	1.58	0.500	mg/l	2.00		79.0	60-140	1.92	40	
Surrogate: Octacosane	0.197		"	0.195		101	50-150			

Matrix Spike (4G27027-MS1) Source: B4G0359-05 X

Diesel Range Hydrocarbons	1.61	0.250	mg/l	1.89	0.0439	82.9	37-126			
Surrogate: 2-FBP	0.239		"	0.255		93.7	50-150			

Matrix Spike Dup (4G27027-MSD1) Source: B4G0359-05 X

Diesel Range Hydrocarbons	1.41	0.250	mg/l	1.89	0.0439	72.3	50-150	13.2	50	
Surrogate: 2-FBP	0.198		"	0.255		77.6	50-150			

Batch 4H03067: Prepared 08/03/04 Using EPA 3520C

Blank (4H03067-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.264		"	0.270		97.8	50-150			
Surrogate: Octacosane	0.187		"	0.195		95.9	50-150			

LCS (4H03067-BS1)

Diesel Range Hydrocarbons	1.53	0.250	mg/l	2.00		76.5	45-105			
Surrogate: 2-FBP	0.241		"	0.270		89.3	50-150			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 23063312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 16:11

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4H03067: Prepared 08/03/04 Using EPA 3520C										
LCS Dup (4H03067-BSD1)										
Diesel Range Hydrocarbons	1.30	0.250	mg/l	2.00		65.0	45-105	16.3	50	
Surrogate: 2-FBP	0.191		"	0.270		70.7	50-150			

North Creek Analytical - Bothell

Amar Gill, Project Manager

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 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 23063312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 16:11

**Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4G22015: Prepared 07/22/04 Using EPA 3520C

Blank (4G22015-BLK1)

Pentachlorophenol	ND	0.500	ug/l							
Surrogate: 2,4,6-TBP	37.0		"	50.0		74.0	22-162			

LCS (4G22015-BS1)

Pentachlorophenol	9.48	0.500	ug/l	20.0		47.4	20-128			
Surrogate: 2,4,6-TBP	37.9		"	50.0		75.8	22-162			

LCS Dup (4G22015-BSD1)

Pentachlorophenol	14.0	0.500	ug/l	20.0		70.0	20-128	38.5	50	
Surrogate: 2,4,6-TBP	42.4		"	50.0		84.8	22-162			

North Creek Analytical - Bothell

Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 23063312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 16:11

Notes and Definitions

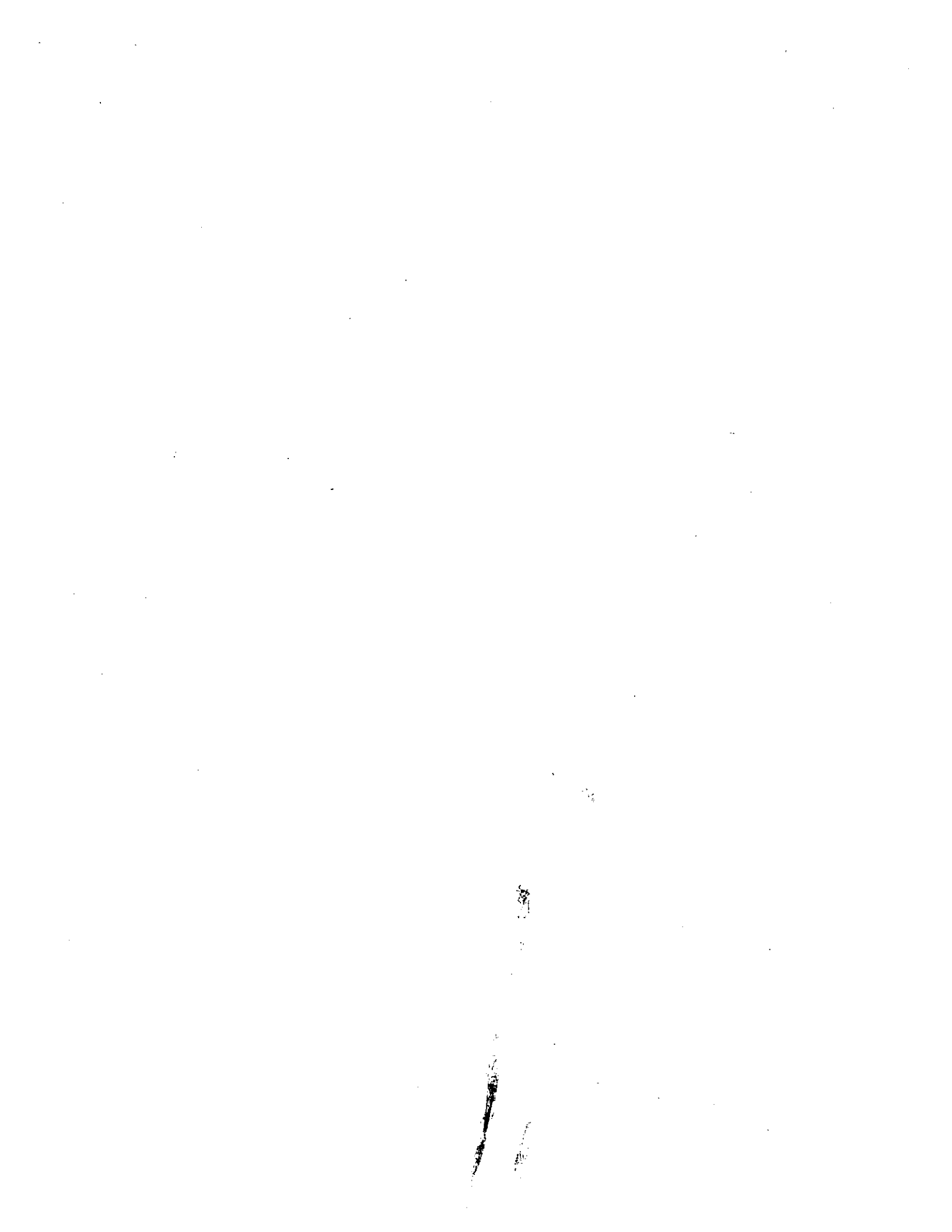
- A-01 There is gasoline range products contributing to the diesel result.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Umar Gill, Project Manager

North Creek Analytical, Inc.
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CHAIN OF CUSTODY REPORT

Work Order #: **B4G0467**

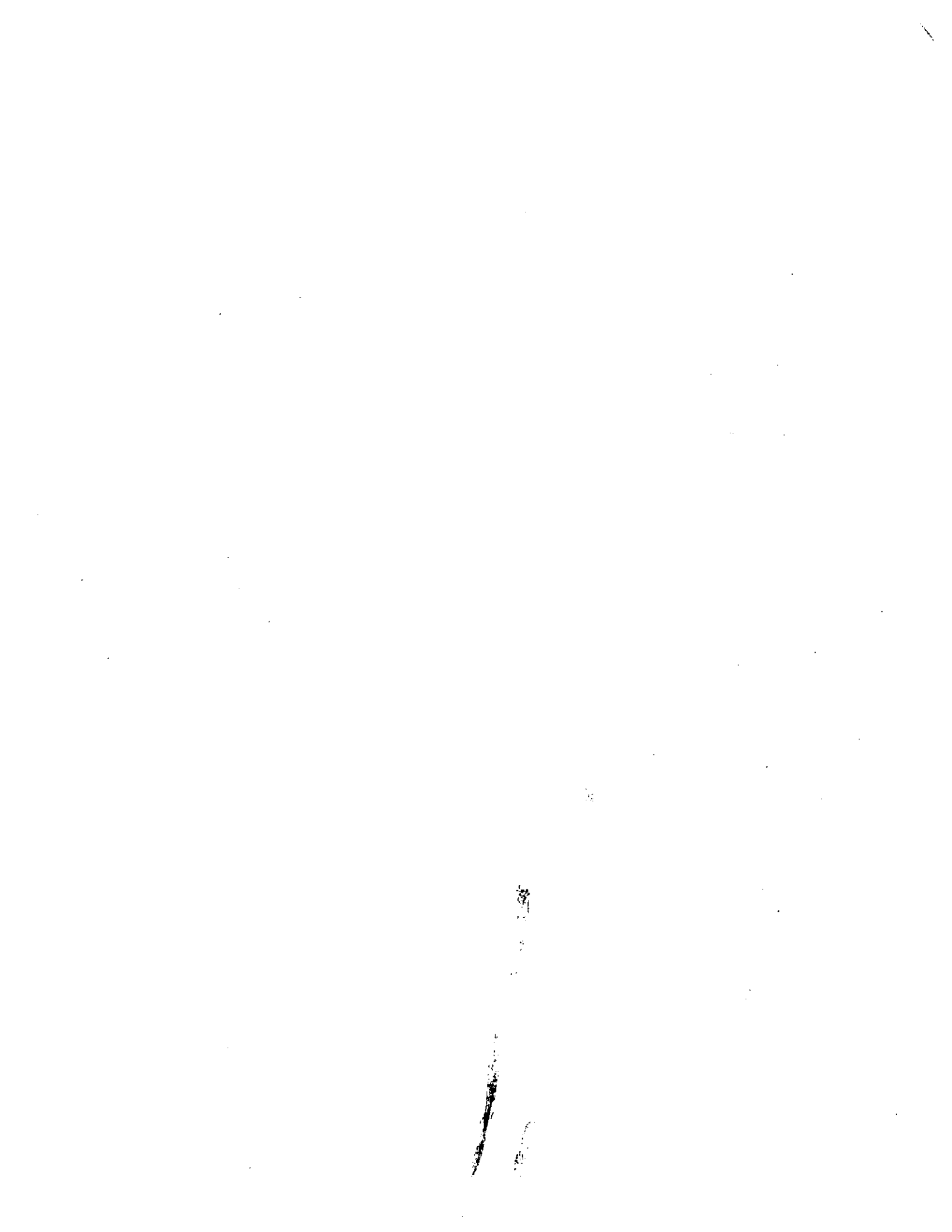
CLIENT: **Time Oil**
 REPORT TO: **Jim Sims**
 ADDRESS: **2737 W Commodore Way**
 PHONE: **206 286 6451** FAX:
 PROJECT NAME: **Quarterly Groundwater Monitoring July 04**
 PROJECT NUMBER: **2306.332.0012.0004**
 SAMPLED BY: **E Tebey**

INVOICE TO: **Same as left**
 PRESERVATIVE
 P.O. NUMBER:
 REQUESTED ANALYSES

TURNAROUND REQUEST
 In Business Days *
 Organic & Inorganic Analyses
 7 5 4 3 2 1 <1
 Petroleum Hydrocarbon Analyses
 4 3 2 1 <1
 STD.
 OTHER Specify:
 * Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	HCl	PCl	PCl ₂	PCl ₃	PCl ₄	PCl ₅	PCl ₆	PCl ₇	PCl ₈	PCl ₉	PCl ₁₀	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1. OIMW-TB04	7/19/04 0800	X											W	1		-01
2. OIMW-29	7/19/04 0835	X	X	X	X	X	X	X	X	X	X	X	W	7		-02
3. OIMW-28A	7/19/04 0855	X	X	X	X	X	X	X	X	X	X	X	W	7		-03
4. OIMW-28B	7/19/04 0905	X	X	X	X	X	X	X	X	X	X	X	W	7		-04
5.																
6.																
7.																
8.																
9.																
10.																

RELEASED BY: **Ellen D Tebey** FIRM: **TFWI** DATE: **7/19/04** TIME: **1634**
 PRINT NAME: **Ellen D Tebey** FIRM: **NCA** RECEIVED BY: **Tom Blankinship** DATE: **7/19/04** TIME: **1634**
 RECEIVED BY: **Blankinship** FIRM: **NCA** DATE: **7/19/04** TIME: **1634**
 PRINT NAME: **Blankinship** FIRM: **NCA** RECEIVED BY: **Blankinship** DATE: **7/19/04** TIME: **1634**
 ADDITIONAL REMARKS: **Silica Gel Clean up on Diesel Samples** FIRM: **TFWI** FIRM: **TFWI** FIRM: **TFWI** FIRM: **TFWI**
 TEMP: **5.32** W/CS
 PAGE: **1** OF **1**





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17 August 2004

Bryan Graham
Tetra Tech FW, Inc. - Bothell
12100 NE 195th St
Bothell, WA/USA 98011

RE: Time Oil-West Commodore Way

Enclosed are the results of analyses for samples received by the laboratory on 07/20/04 15:01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



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CASE NARRATIVE for B4G0577

Client: Tetra Tech FW, Inc.
Project Manager: Bryan Graham
Project Name: Time Oil West Commodore Way
Project Number: 2306.3312.0012.0004

1.0 DESCRIPTION OF CASE

Eight (8) water samples were submitted for the analysis of:

- Gasoline Hydrocarbons and BTEX by NWTPH-G and 8021B
- Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
- Pentachlorophenol by GC/MS with Selective Ion Monitoring

2.0 COMMENTS ON SAMPLE RECEIPT

The sample was received 20th July 2004 at a temperature of 3.1°C and logged in 22nd July 2004.

3.0 PREPARATION AND ANALYSIS

Gasoline Hydrocarbons and BTEX by NWTPH-G and 8021B


No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up

The surrogate recoveries for project samples, 01MW-21 and 01MW-22 were below the method control limits in analytical batch 4G25001. Since additional sample volume was provided the samples were re-extracted and re-analyzed as part of analytical batch 4G03011. The surrogate recoveries and batch spike recoveries were all within control limits for the re-extracted project samples and quality control samples in analytical batch 4G03011. Both the original and re-extracted results were provided for project samples 01MW-21 and 01MW-22. No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Pentachlorophenol by GC/MS with Selective Ion Monitoring

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.



Amar Gill
Project Manager
North Creek Analytical



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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/17/04 10:30
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01MW-TB05	B4G0577-01	Water	07/20/04 07:50	07/20/04 15:01
01MW-17	B4G0577-02	Water	07/20/04 08:05	07/20/04 15:01
01MW-13	B4G0577-03	Water	07/20/04 08:25	07/20/04 15:01
01MW-12	B4G0577-04	Water	07/20/04 08:55	07/20/04 15:01
01MW-21	B4G0577-05	Water	07/20/04 09:15	07/20/04 15:01
01MW-22	B4G0577-06	Water	07/20/04 09:45	07/20/04 15:01
01MW-23	B4G0577-07	Water	07/20/04 10:16	07/20/04 15:01
01MW-24	B4G0577-08	Water	07/20/04 11:00	07/20/04 15:01

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
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 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 10:30

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-TB05 (B4G0577-01) Water Sampled: 07/20/04 07:50 Received: 07/20/04 15:01									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G26007	07/26/04	07/26/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	104 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	93.5 %	68-140			"	"	"	"	
01MW-17 (B4G0577-02) Water Sampled: 07/20/04 08:05 Received: 07/20/04 15:01									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4G26007	07/26/04	07/26/04	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	100 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	90.6 %	68-140			"	"	"	"	
01MW-13 (B4G0577-03) Water Sampled: 07/20/04 08:25 Received: 07/20/04 15:01									
Gasoline Range Hydrocarbons	314	50.0	ug/l	1	4G26007	07/26/04	07/26/04	NWTPH-Gx/8021B	
Benzene	1.41	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	2.54	1.00	"	"	"	"	"	"	1-06
Surrogate: 4-BFB (FID)	104 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	94.2 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 10:30

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
01MW-12 (B4G0577-04) Water Sampled: 07/20/04 08:55 Received: 07/20/04 15:01										
Gasoline Range Hydrocarbons	1700	250		ug/l	5	4G26007	07/26/04	07/26/04	NWTPH-Gx/8021B	
Benzene	485	2.50		"	"	"	"	"	"	
Toluene	5.90	2.50		"	"	"	"	"	"	
Ethylbenzene	11.3	2.50		"	"	"	"	"	"	
Xylenes (total)	15.8	5.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	108 %	58-144				"	"	"	"	
Surrogate: 4-BFB (PID)	94.0 %	68-140				"	"	"	"	
01MW-21 (B4G0577-05) Water Sampled: 07/20/04 09:15 Received: 07/20/04 15:01										
Gasoline Range Hydrocarbons	986	50.0		ug/l	1	4G26007	07/26/04	07/26/04	NWTPH-Gx/8021B	G-02
Benzene	0.858	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	10.6	0.500		"	"	"	"	"	"	
Xylenes (total)	1.32	1.00		"	"	"	"	"	"	I-06
Surrogate: 4-BFB (FID)	144 %	58-144				"	"	"	"	
Surrogate: 4-BFB (PID)	108 %	68-140				"	"	"	"	
01MW-22 (B4G0577-06) Water Sampled: 07/20/04 09:45 Received: 07/20/04 15:01										
Gasoline Range Hydrocarbons	1340	50.0		ug/l	1	4G26007	07/26/04	07/26/04	NWTPH-Gx/8021B	G-02
Benzene	73.5	0.500		"	"	"	"	"	"	
Toluene	0.943	0.500		"	"	"	"	"	"	
Ethylbenzene	4.71	0.500		"	"	"	"	"	"	
Xylenes (total)	10.2	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	138 %	58-144				"	"	"	"	
Surrogate: 4-BFB (PID)	104 %	68-140				"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 10:30

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-23 (B4G0577-07) Water Sampled: 07/20/04 10:16 Received: 07/20/04 15:01									
Gasoline Range Hydrocarbons	4620	500	ug/l	10	4G26007	07/26/04	07/26/04	NWTPH-Gx/8021B	
Benzene	917	5.00	"	"	"	"	"	"	
Toluene	10.0	5.00	"	"	"	"	"	"	
Ethylbenzene	61.4	5.00	"	"	"	"	"	"	
Xylenes (total)	139	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	110 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	94.8 %	68-140			"	"	"	"	
01MW-24 (B4G0577-08) Water Sampled: 07/20/04 11:00 Received: 07/20/04 15:01									
Gasoline Range Hydrocarbons	18400	2500	ug/l	50	4G26007	07/26/04	07/26/04	NWTPH-Gx/8021B	
Benzene	6750	50.0	"	100	"	"	07/26/04	"	
Toluene	35.0	25.0	"	50	"	"	07/26/04	"	
Ethylbenzene	261	25.0	"	"	"	"	"	"	
Xylenes (total)	816	50.0	"	"	"	"	"	"	1-06
Surrogate: 4-BFB (FID)	103 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	93.8 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 10:30

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-17 (B4G0577-02) Water Sampled: 07/20/04 08:05 Received: 07/20/04 15:01									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G25001	07/25/04	07/31/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	88.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	84.8 %	50-150			"	"	"	"	
01MW-13 (B4G0577-03) Water Sampled: 07/20/04 08:25 Received: 07/20/04 15:01									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G25001	07/25/04	08/01/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	92.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	104 %	50-150			"	"	"	"	
01MW-12 (B4G0577-04) Water Sampled: 07/20/04 08:55 Received: 07/20/04 15:01									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G25001	07/25/04	07/31/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	80.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	90.2 %	50-150			"	"	"	"	
01MW-21 (B4G0577-05) Water Sampled: 07/20/04 09:15 Received: 07/20/04 15:01									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G25001	07/25/04	08/01/04	NWTPH-Dx	X
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	43.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	40.9 %	50-150			"	"	"	"	
01MW-21 (B4G0577-05RE1) Water Sampled: 07/20/04 09:15 Received: 07/20/04 15:01									
Diesel Range Hydrocarbons	0.429	0.250	mg/l	1	4H03011	08/03/04	08/04/04	NWTPH-Dx	X
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	60.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	66.8 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/17/04 10:30
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**Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-22 (B4G0577-06) Water Sampled: 07/20/04 09:45 Received: 07/20/04 15:01 X									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	4G25001	07/25/04	07/31/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	32.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	33.5 %	50-150			"	"	"	"	
01MW-22 (B4G0577-06RE1) Water Sampled: 07/20/04 09:45 Received: 07/20/04 15:01 X									
Diesel Range Hydrocarbons	1.09	0.250	mg/l	1	4H03011	08/03/04	08/04/04	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	76.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	78.8 %	50-150			"	"	"	"	
01MW-23 (B4G0577-07) Water Sampled: 07/20/04 10:16 Received: 07/20/04 15:01									
Diesel Range Hydrocarbons	0.540	0.250	mg/l	1	4G25001	07/25/04	08/01/04	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	74.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	85.3 %	50-150			"	"	"	"	
01MW-24 (B4G0577-08) Water Sampled: 07/20/04 11:00 Received: 07/20/04 15:01									
Diesel Range Hydrocarbons	0.837	0.250	mg/l	1	4G25001	07/25/04	08/01/04	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	85.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	77.2 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 10:30

Pentachlorophenol by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-21 (B4G0577-05) Water Sampled: 07/20/04 09:15 Received: 07/20/04 15:01									
Pentachlorophenol	3.51	0.500	ug/l	1	4G27009	07/27/04	07/31/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	71.4 %	22-162			"	"	"	"	
01MW-22 (B4G0577-06) Water Sampled: 07/20/04 09:45 Received: 07/20/04 15:01									
Pentachlorophenol	191	2.50	ug/l	5	4G27009	07/27/04	07/31/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	93.2 %	22-162			"	"	"	"	
01MW-23 (B4G0577-07) Water Sampled: 07/20/04 10:16 Received: 07/20/04 15:01									
Pentachlorophenol	350	2.50	ug/l	5	4G27009	07/27/04	07/31/04	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	88.3 %	22-162			"	"	"	"	
01MW-24 (B4G0577-08) Water Sampled: 07/20/04 11:00 Received: 07/20/04 15:01									
Pentachlorophenol	ND	2.50	ug/l	5	4G27009	07/27/04	07/31/04	EPA 8270 Mod	Q-28
Surrogate: 2,4,6-TBP	93.6 %	22-162			"	"	"	"	

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
 12100 NE 195th St
 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 10:30

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G26007: Prepared 07/26/04 Using EPA 5030B (MeOH)

Blank (4G26007-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	46.0		"	48.0		95.8	58-144			
Surrogate: 4-BFB (PID)	42.7		"	48.0		89.0	68-140			

LCS (4G26007-BS1)

Gasoline Range Hydrocarbons	486	50.0	ug/l	502		96.8	80-120			
Benzene	6.48	0.500	"	6.21		104	80-120			
Toluene	33.7	0.500	"	34.9		96.6	80-120			
Ethylbenzene	8.40	0.500	"	8.38		100	80-120			
Xylenes (total)	41.1	1.00	"	40.6		101	80-120			
Surrogate: 4-BFB (FID)	49.2		"	48.0		102	58-144			
Surrogate: 4-BFB (PID)	43.0		"	48.0		89.6	68-140			

LCS Dup (4G26007-BSD1)

Gasoline Range Hydrocarbons	515	50.0	ug/l	502		103	80-120	5.79	25	
Benzene	6.62	0.500	"	6.21		107	80-120	2.14	25	
Toluene	34.4	0.500	"	34.9		98.6	80-120	2.06	25	
Ethylbenzene	8.51	0.500	"	8.38		102	80-120	1.30	25	
Xylenes (total)	41.6	1.00	"	40.6		102	80-120	1.21	25	
Surrogate: 4-BFB (FID)	52.8		"	48.0		110	58-144			
Surrogate: 4-BFB (PID)	43.5		"	48.0		90.6	68-140			

Matrix Spike (4G26007-MS1)

Source: B4G0544-01

Gasoline Range Hydrocarbons	558	50.0	ug/l	502	72.3	96.8	58-129			
Benzene	6.44	0.500	"	6.21	0.189	101	46-130			
Toluene	33.4	0.500	"	34.9	0.156	95.3	60-124			
Ethylbenzene	8.18	0.500	"	8.38	ND	97.6	56-141			
Xylenes (total)	40.0	1.00	"	40.6	0.547	97.2	66-132			
Surrogate: 4-BFB (FID)	52.3		"	48.0		109	58-144			
Surrogate: 4-BFB (PID)	43.0		"	48.0		89.6	68-140			

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell
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 Bothell, WA/USA 98011

Project: Time Oil-West Commodore Way
 Project Number: 2306.3312.0012.0004
 Project Manager: Bryan Graham

Reported:
 08/17/04 10:30

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G26007: Prepared 07/26/04 Using EPA 5030B (MeOH)

Matrix Spike Dup (4G26007-MSD1)

Source: B4G0544-01

Gasoline Range Hydrocarbons	547	50.0	ug/l	502	72.3	94.6	58-129	1.99	25	
Benzene	6.22	0.500	"	6.21	0.189	97.1	46-130	3.48	40	
Toluene	32.6	0.500	"	34.9	0.156	93.0	60-124	2.42	40	
Ethylbenzene	7.95	0.500	"	8.38	ND	94.9	56-141	2.85	40	
Xylenes (total)	38.9	1.00	"	40.6	0.547	94.5	66-132	2.79	40	
Surrogate: 4-BFB (FID)	52.5		"	48.0		109	58-144			
Surrogate: 4-BFB (PID)	43.1		"	48.0		89.8	68-140			

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/17/04 10:30
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**Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch 4G25001: Prepared 07/25/04 Using EPA 3520C

Blank (4G25001-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.219		"	0.270		81.1	50-150			
Surrogate: Octacosane	0.158		"	0.195		81.0	50-150			

LCS (4G25001-BS1)

Diesel Range Hydrocarbons	1.31	0.250	mg/l	2.00		65.5	45-105			
Surrogate: 2-FBP	0.243		"	0.270		90.0	50-150			

LCS (4G25001-BS2)

Lube Oil Range Hydrocarbons	1.26	0.500	mg/l	2.00		63.0	50-150			
Surrogate: 2-FBP	0.242		"	0.270		89.6	50-150			
Surrogate: Octacosane	0.217		"	0.195		111	50-150			

LCS Dup (4G25001-BSD1)

Diesel Range Hydrocarbons	0.962	0.250	mg/l	2.00		48.1	45-105	30.6	50	
Surrogate: 2-FBP	0.146		"	0.270		54.1	50-150			

LCS Dup (4G25001-BSD2)

Lube Oil Range Hydrocarbons	1.35	0.500	mg/l	2.00		67.5	50-150	6.90	50	
Surrogate: Octacosane	0.182		"	0.195		93.3	50-150			

Batch 4H03011: Prepared 08/03/04 Using EPA 3520C

Blank (4H03011-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.139		"	0.270		51.5	50-150			
Surrogate: Octacosane	0.127		"	0.195		65.1	50-150			

North Creek Analytical - Bothell

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/17/04 10:30
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**Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4H03011: Prepared 08/03/04 Using EPA 3520C

LCS (4H03011-BS1)

Diesel Range Hydrocarbons	1.45	0.250	mg/l	2.00		72.5	45-105			
Surrogate: 2-FBP	0.207		"	0.270		76.7	50-150			

LCS Dup (4H03011-BSD1)

Diesel Range Hydrocarbons	0.931	0.250	mg/l	2.00		46.6	45-105	43.6	50	
Surrogate: 2-FBP	0.147		"	0.270		54.4	50-150			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/17/04 10:30
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**Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G27009: Prepared 07/27/04 Using EPA 3520C

Blank (4G27009-BLK1)

Pentachlorophenol	ND	0.500	ug/l							
Surrogate: 2,4,6-TBP	33.6		"	50.0		67.2	45-135			

LCS (4G27009-BS1)

Pentachlorophenol	10.1	0.500	ug/l	20.0		50.5	45-135			
Surrogate: 2,4,6-TBP	35.1		"	50.0		70.2	45-135			

LCS Dup (4G27009-BSD1)

Pentachlorophenol	10.5	0.500	ug/l	20.0		52.5	45-135	3.88	50	
Surrogate: 2,4,6-TBP	34.6		"	50.0		69.2	45-135			

Matrix Spike (4G27009-MS1)

Source: B4G0619-02

Pentachlorophenol	13.8	0.500	ug/l	18.9	ND	73.0	20-130			
Surrogate: 2-FP	ND		"	47.2			60-120			
Surrogate: 2,4,6-TBP	30.7		"	47.2		65.0	22-162			
Surrogate: 2-FBP	27.1		"	47.2		57.4	30-150			

Matrix Spike Dup (4G27009-MSD1)

Source: B4G0619-02

Pentachlorophenol	14.3	0.500	ug/l	19.2	ND	74.5	20-130	3.56	50	
Surrogate: 2-FP	ND		"	48.1			60-120			
Surrogate: 2,4,6-TBP	30.2		"	48.1		62.8	22-162			
Surrogate: 2-FBP	29.2		"	48.1		60.7	30-150			

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Tetra Tech FW, Inc. - Bothell 12100 NE 195th St Bothell, WA/USA 98011	Project: Time Oil-West Commodore Way Project Number: 2306.3312.0012.0004 Project Manager: Bryan Graham	Reported: 08/17/04 10:30
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Notes and Definitions

- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- G-02 The chromatogram for this sample does not resemble a typical gasoline pattern. Please refer to the sample chromatogram.
- I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
- Q-28 This sample was re-analyzed at a dilution due to matrix related internal standard failure at the initial final volume.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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CHAIN OF CUSTODY REPORT

Work Order #: **PA60577**

CLIENT: Time Oil		INVOICE TO:		TURNAROUND REQUEST			
REPORT TO: Jim Sims (cc: B. Graham @ Hfw)		Same as left		in Business Days *			
ADDRESS: 2737 W Commodore Way Seattle WA		P.O. NUMBER:		<input checked="" type="checkbox"/> Organic & Inorganic Analyses <input checked="" type="checkbox"/> Petroleum Hydrocarbon Analyses <input type="checkbox"/> STD.			
PHONE: (206) 866-4577 FAX:		PRESERVATIVE		<input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> STD.			
PROJECT NAME: Quarterly Groundwater Monitoring July 04		REQUESTED ANALYSES		OTHER Specify:			
PROJECT NUMBER: 2306.3372.0012.0004				* Turnaround Requests less than standard may incur Rush Charges.			
SAMPLED BY: E. Tobey							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	HCl	HCl	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA W/O ID
1. OIMW-1605	7/20/04 0730	X	X	W	1		01
2. OIMW-17	7/20/04 0805	X	X	W	5		02
3. OIMW-13	7/20/04 0825	X	X	W	5		03
4. OIMW-12	7/20/04 0855	X	X	W	5		04
5. OIMW-21	7/20/04 0915	X	X	W	7		05
6. OIMW-22	7/20/04 0945	X	X	W	7		06
7. OIMW-23	7/20/04 1016	X	X	W	7		07
8. OIMW-24	7/20/04 1100	X	X	W	7		08
RECEIVED BY: Collette Weaver DATE: 7/20/04 PRINT NAME: Collette Weaver FIRM: NCA TIME: 1501 RECEIVED BY: DATE: TIME:							
RECEIVED BY: DATE: TIME:							
RECEIVED BY: DATE: TIME:							
RECEIVED BY: DATE: TIME:							
ADDITIONAL REMARKS: Silica Gel Clean up on Diesel Samples							
TEMP: 3.0 PAGE 1 OF 1 W/CS							

