LUST#: 2298
KING/Seattle

EXCAVATION, SOIL SAMPLING, AND CONSTRUCTION COORDINATION

AT

FORMER TEXACO FACILITY 63-232-0037 8701 GREENWOOD AVENUE NORTH SEATTLE, WASHINGTON

ECOLOGY TCP IDENTIFICATION NO. 2868 ERI JOB 31001.R07 February 4, 1997

Prepared for

TEXACO REFINING AND MARKETING INC. ENVIRONMENT, HEALTH & SAFETY 3400 188TH STREET SW, SUITE 630 LYNNWOOD, WASHINGTON 98037

Prepared by

ENVIRONMENTAL RESOLUTIONS, INC.



DEPARTMENT OF ECOLOGY NWRO/TCP TANK UNIT	-
INTERIM CLEANUP REPORT SITE CHARACTERIZATION FINAL CLEANUP REPORT OTHER POST IRAP	
AFFECTED MEDIA: SOIL OTHER GW INSPECTOR (INIT.) PN DATE 11/25	196

EXCAVATION, SOIL SAMPLING, AND CONSTRUCTION COORDINATION

at

Former Texaco Facility 63-232-0037 8701 Greenwood Avenue North Seattle, Washington

ERI Job 31001.R07

Prepared for

Texaco Refining and Marketing Inc. Environment, Health & Safety 3400 188th Street SW, Suite 630 Lynnwood, Washington 98037

by

Environmental Resolutions, Inc.

John K. Meyer, R.G.

Branch Manager

Steve M. Zigan, R.G.

President

February 4, 1997

3400 188th Street SW Suite 630 Lynnwood WA 98037

March 14, 1997

ENV - SERVICE STATIONS

Excavation Report Texaco Location # 63-232-0037 8701 Greenwood Avenue North Seattle, Washington

Mr. Roger Nye Department of Ecology Northwest Regional Office 3190 160th Avenue SE Bellevue, WA 98008-5452 RECEIVED

MAR 2 0 1997

DEPT. OF ECOLOGY

Dear Mr. Nye:

Enclosed is the 'Excavation, Soil Sampling, and Construction Coordination' report for referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) for Texaco Environment, Health & Safety. The report details additional soil removal and sampling activities at the site which were conducted in conjunction with ongoing construction activities.

If you have any questions please contact me at (206) 774-6090, extension 224.

Sincerely,

Theresa A. Geijer Project Coordinator

Texaco Environment, Health & Safety

Y.A. Gajer

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Enclosures

cc:

Mr. R. Isackson-Village Properties (w/enclosures)

Mr. M. Nesteroff-LPSL (w/enclosures)

RLLane-File (w/enclosures)

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EXCAVATION, SOIL SAMPLING, AND CONSTRUCTION COORDINATION

at

Former Texaco Facility 63-232-0037 8701 Greenwood Avenue North Seattle, Washington For Texaco Refining and Marketing Inc. Environment, Health & Safety

1.0 INTRODUCTION

As requested by Texaco Refining and Marketing Inc., Environment, Health & Safety (TRMI-EH&S), Environmental Resolutions, Inc. (ERI) has prepared this report documenting results of soil excavation and sampling activities conducted between September and November 1996 at former Texaco Facility 63-232-0037, 8701 Greenwood Avenue North, Seattle, Washington (Plate P-1). ERI coordinated with Bayley Construction, Inc. (Bayley), the building contractor, to provide environmental monitoring and soil and groundwater assessment services, and to observe removal of hydrocarbon-impacted soil encountered during new construction.

2.0 BACKGROUND

Soil and groundwater assessment and remediation activities have been conducted at the site since 1991. Previous investigations have identified a silt and peat layer present between approximately 7 and 15 feet below ground surface (bgs) that appears to act as a confining layer separating lower saturated soils from the overlying vadose zone. Excavation activities were conducted in 1994 to remove hydrocarbon-impacted soil above the peat layer near the former fuel dispensing facilities and waste oil underground storage tank (UST) during station demolition activities. In addition, a combined air sparging/vapor extraction system operated between December 1994 and June 1995 to remove hydrocarbons from groundwater. The property was sold to Seattle/Village Partnership (Village) in June 1995.

Results of these and previous assessment and remediation activities were summarized in the *Independent Remedial Action Report* dated January 5, 1996 prepared by ERI and submitted to the Washington State Department of Ecology (Ecology) for review under the Independent Remedial Action Program (IRAP). The IRAP report presented results of historical groundwater monitoring, sampling, and remediation activities and identified areas of remaining hydrocarbon-impacted soil. Four soil samples collected at the limits of the former waste oil/sump excavation in 1994 contained hydrocarbon concentrations exceeding Model Toxics Control Act (MTCA) Method A Cleanup Levels. Soil in these areas was not removed to avoid disturbing the underlying silt and peat confining layer. The four areas of impacted soil remaining from previous investigations are shown on Plate P-2.

During February and March 1996, ERI visited the site to observe removal of groundwater treatment system piping from the area of the former gasoline and diesel UST basin at the southeastern portion of the site. During excavation activities a previously unknown area of impacted soil was encountered near the

former dispenser islands at the east-central portion of the site (Plate P-2). Impacted soil was removed and confirmation soil samples were collected and submitted for hydrocarbon analyses. Soil samples collected from the limits of excavation following removal of impacted soil did not contain analyte concentrations exceeding MTCA Method A Cleanup Levels. Results of the investigation were presented in the *Excavation and Soil Sampling Report* prepared by ERI dated March 15, 1996.

Following review of the IRAP and Excavation and Soil Sampling reports, on July 31, 1996 Ecology issued a no further action determination for the site notifying TRMI-EH&S and the new site owner that no further cleanup action would be required. The determination required that a restrictive covenant be placed on the property deed identifying areas of remaining impacted soil, and that potential new areas of impacted soil identified during construction be removed as practicable. The covenant also required that groundwater samples be collected from downgradient monitoring well AGW-6 and submitted for hydrocarbon analyses on a twice-yearly basis to monitor groundwater conditions.

In September 1996 Village and Bayley began construction of an approximately 12,000-square-foot retail building with adjacent paved parking.

3.0 PURPOSE AND SCOPE OF SERVICES

The purpose of this investigation was to provide environmental monitoring and assessment services to the building contractor on behalf of TRMI-EH&S and to assist in identifying and removing potential new areas of impacted soil that may be encountered.

To meet these objectives, ERI completed the following tasks:

- Discussed the site conditions and known environmental concerns at the site with the new owner and building contractor prior to initiation of construction to identify areas of known and potential impacted soil that may be encountered during construction;
- Performed environmental monitoring activities during construction in areas of known impacted soil and provided on-call services to the new owner and building contractor on behalf of TRMI-EH&S to respond to suspected problems encountered during construction;
- Observed site conditions, monitored vapor concentrations, and collected soil and water samples for laboratory analysis;
- Observed excavation and removal of hydrocarbon-impacted soil and collected confirmation soil samples;
- Measured the depth to water and collected a groundwater sample from monitoring well AGW-6;
- Submitted soil and water samples to be analyzed for petroleum hydrocarbon compounds and total lead;
- Coordinated waste profiling and transportation and disposal of hydrocarbon-impacted soil;

 Prepared this report summarizing our investigative methods, laboratory analytical results, and findings.

4.0 FIELD ACTIVITIES

On September 5, 1996, ERI met with representatives of TRMI-EH&S, Village, and Bayley to discuss possible environmental concerns as related to former service station operations, and the schedule for the planned new construction. Areas of known or potentially impacted soil were identified and discussed, particularly the former waste oil/sump area at the southwestern portion of the property excavated in 1994 (Plate P-2). Building plans provided by Bayley indicated no substantial excavation work to be performed in this area. However, as a precaution, ERI was asked to provide environmental services on behalf of TRMI-EH&S should the contractor encounter problems related to the former service station operations during construction.

Based on a request by the building contractor, ERI visited the site on September 10, 1996 to observe stockpiled soil near the northern property boundary (Excavation 1) that Bayley had excavated during the initial phase of construction. Soil samples SP1-1 and SP1-2 were collected from excavated stockpiled soil, placed into sealed glass jars, and submitted for 24-hour rush analyses. Soil sample locations, laboratory results, and the area of excavation are shown on Plate P-3. Laboratory results are also shown on Table T-1.

On September 11, 1996 ERI returned to the site to collect additional soil samples. Samples EX1-E-3 and EX1-W-3 were collected from the eastern and western sidewalls of the excavation, respectively, immediately above water present approximately 3 feet bgs. Based on a request by the building contractor, ERI collected additional soil samples from separate excavations and stockpiled soil near the western property boundary (Excavations 2 and 3). Excavation soil samples EX2-W-1.5 and EX3-E-2, and stockpile soil samples SP2-1 and SP3-1 were collected from the excavation sidewalls and soil stockpiles for laboratory analyses (Plate P-3). A photoionization detector (PID) was used to monitor volatile organic vapor concentrations. No hydrocarbon vapors or unusual odors were detected. Sample SP4-1 was also collected from stockpiled soil excavated near the former pump island area at the eastern portion of the site (Excavation 4). Soil in this area exhited PID readings up to 1,560 parts per million (ppm). Excavated soil was segregated and covered with plastic pending laboratory results. All samples were collected in laboratory-supplied glass jars and submitted for 24-hour rush analyses.

Based on laboratory results of sample SP4-1, ERI returned to the site on September 12, 1996 to collect an additional soil sample in the area of the former pump islands and USTs. Sample EX4-B-1 was collected from soil remaining beneath the area where soil represented by SP4-1 had been excavated. The sample was collected in a laboratory-supplied glass container and submitted for 24-hour rush analyses. PID readings measured zero in the sample area.

On September 12, 1996, ERI personnel measured the water level in AGW-6 and collected a groundwater sample for laboratory analysis. Additional information concerning groundwater sampling procedures and results is presented in the groundwater sampling letter report prepared by ERI dated October 24, 1996.

On September 13, 1996, ERI returned to the site to observe loading and off-site transport of hydrocarbon-impacted soil stockpiles generated from the four excavations. Approximately 7 cubic yards (10 tons) of soil were transported to the TPS Technologies facility in Tacoma, Washington for treatment and recycling.

Based on the laboratory results ERI returned to the site on September 17, 1996 to observe removal of suspected impacted soil at the western portion of the property (Excavation 5) near sample EX3-E-2. The area of excavation is shown on Plate P-4. Soil excavation activities were performed by ESE Corporation (ESE) on behalf of TRMI-EH&S. Soil was excavated from the surface to depths ranging between approximately 4 and 7 feet bgs where water was encountered.

Soil at the southern portion of the excavation consisted of imported brown sand and rock fill with no apparent odor or measurable PID readings (newer fill). This material had been previously backfilled following excavation activities in 1994. Soil at the northern portion of the excavation consisted of greenish-gray silty sand with a hydrocarbon-like odor and PID readings exceeding 3,000 ppm (older fill). The excavation was then extended to the north to remove suspected impacted older fill in this area. Soil samples were then collected at the limits of the excavation immediately above the water, placed into laboratory-supplied glass containers and submitted for 24-hour rush analyses. Soil sample locations and laboratory results are shown on Plate P-5.

Based on laboratory results, ERI returned to the site on September 18, 1996 to observe removal of additional impacted soil in the area of Excavation 5. During excavation, an area of impacted soil identified in 1994 (Sample WOEWO-5) was encountered at the southeastern portion of the excavation and removed along with newly-discovered impacted soil. Seepages of water were observed entering through pea gravel encountered at the southeastern portion of the excavation. Excavation to the southeast was halted to avoid flooding the excavation with water from the backfilled former gasoline and diesel UST basin. Soil samples were then collected at the limits of the excavation following removal of impacted soil, and placed into laboratory-supplied glass containers.

A smaller test pit (Excavation 6) was subsequently excavated approximately 30 feet south of the larger excavation, and soil sample EX6-2-W collected at the bottom approximately 2 feet bgs. One soil sample (BACKFILL) was also collected from imported clean material provided as replacement backfill.

All samples were immediately submitted to an on-site mobile laboratory for rapid analyses. Based on the laboratory results, the excavation was backfilled and compacted with the clean material the following day. Approximately 150 cubic yards (231 tons) of excavated soil were subsequently transported to the TPS Technologies facility in Tacoma, Washington for treatment and recycling.

During September 1996 the building plans were changed. New plans called for installation of a 66-inch diameter detention pipe in the area of known impacted soil at the western portion of the property. The area of excavation required for pipe installation is shown on Plate P-6. Based on prior laboratory results, ERI and ESE returned to the site to remove impacted soil and overlying newer fill that might potentially be encountered during installation of the pipe. Prior to excavation, ERI visited the site on September 25, 1996, to collect surficial soil samples in the area of planned excavation. Soil samples S1-2, S2-2, and S3-1 were collected at 1 and 2 feet bgs, placed into laboratory-supplied glass containers, and submitted for 24-hour rush analyses. PID readings measured zero at all three sample locations.

On October 3, 4, and 7, 1996, ERI returned to the site to observe excavation activities and placement of clean imported fill. Soil within the excavated area was removed from the surface to approximately 8 feet bgs to remove overlying newer fill and the impacted upper portion of the underlying peat and silt confining layer (Plate P-6). An additional 1 to 3 feet of surficial soil immediately east of the planned detention pipe were also removed to accommodate utilities installation. Areas of impacted soil identified at Excavations 5 and 6 were removed (Samples EX5-W-3, EX5-S-3, EX5-E-3, and EX6-2-W). During excavation, two additional areas of impacted soil identified during the 1994 investigation (samples WOFM3-7 and WOWWH-3) were encountered and removed. Following removal of impacted soil, samples EXNE-4 and EXNW-4 were collected from the northern limit of the excavation, placed into laboratory-supplied glass containers, and submitted for 24-hour rush analyses. Based on the laboratory results, the excavation was subsequently backfilled with clean imported fill, and the area restored to original grade.

Approximately 275 cubic yards (420 tons) of soil were removed during excavation activities. Stockpile samples SP1-100396, SP-100396, and SP3-100396 were then collected from excavated soil and submitted for disposal profiling analyses. Excavated soil was transported to the TPS Technologies, Inc. facility in Tacoma, Washington for treatment and recycling.

Based on a request by the building contractor, ERI returned to the site on October 9, 1996 to observe the condition of soil and water encountered approximately 4 feet bgs during foundation excavation along the eastern perimeter of the building. Ambient air readings within the excavation measured zero at all locations measured. An organic-like film was noted on the surface of the water present approximately 4 feet bgs at the northern portion of the trench. Sample EXWATER was collected from water near the northeast corner of the foundation excavation and submitted for 24-hour rush analyses (Plate P-6).

Between October 29 and November 1, 1996, ERI visited the site to observe excavation and subsurface piping installation activities conducted by the building contractor at the western portion of the property. Although known impacted soil in the area had been recently removed and replaced with clean imported fill, ERI was present on site during excavation and pipe installation activities to monitor site conditions and collect ambient air measurements. No apparent areas of impacted soil were encountered. Ambient air readings remained below 25 ppm at all locations measured.

5.0 CHEMICAL ANALYSES

Soil samples collected on September 11, 12, 18, and 25, 1996 were submitted to the North Creek Analytical Inc. laboratory in Bothell, Washington, for analysis. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Ecology Method WTPH-G/EPA Method 5030/8020, and for total petroleum hydrocarbons as diesel (TPH-D) and as oil (TPH-O) using Ecology Method WTPH-D (extended). The backfill sample collected from clean, imported fill was analyzed for hydrocarbon identification using Ecology Method WTPH-HCID.

Soil samples collected on October 17 and 18, 1996 were submitted to a mobile laboratory operated by Transglobal Environmental Geosciences Northwest, Inc. of Lacey, Washington, for analysis. The samples were analyzed for TPH-G and BTEX using Ecology Method WTPH-G/EPA Method 5030/8020, and for TPH-D and TPH-O using Ecology Method WTPH-D (extended).

Soil samples collected on October 3 and 4, 1996 and the water sample collected on October 9, 1996 were submitted to the Columbia Analytical Services, Inc. laboratory in Bothell, Washington for analysis. The soil samples were analyzed for TPH-G and BTEX using Ecology Method WTPH-G/EPA Method 5030/8020, and for TPH-D and TPH-O using Ecology Method WTPH-D (extended). Samples SP1-100396, SP2-100496, and SP3-100496 were additionally analyzed for total lead using EPA Method 7420. Water sample EXWATER was analyzed for TPH-G and BTEX using Ecology Method WTPH-G/EPA Method 5030/8020, and for TPH-D and TPH-O using Ecology Method WTPH-D (extended). Copies of laboratory reports are provided in Appendix A.

6.0 RESULTS

Laboratory results indicate that soil samples EX1-W-3 collected from the western sidewall of Excavation 1 and EX2-W-1.5 collected from the western sidewall of Excavation 2 contained TPH-O concentrations of 209 and 348 ppm, respectively, slightly exceeding the MTCA Method A Cleanup Level of 200 ppm (Plate P-3). Sample EX3-E-2 collected from the eastern sidewall of Excavation 3 contained 265 ppm TPH-D and 1,620 ppm TPH-O, exceeding the MTCA Method A Cleanup Level of 200 ppm. Sample SP4-1 collected in the area near the former pump islands contained 360 ppm TPH-G, exceeding the MTCA Method A Cleanup Level of 100 ppm. Sample EX4-B-1 collected from soil remaining beneath the location of SP4-1 did not contain analyte concentrations exceeding MTCA Method A Cleanup Levels. Laboratory results are shown on Plate P-3 and Table T-1.

Based on the laboratory results, remedial excavation activities were undertaken to remove impacted soil at the western portion of the site (Excavation 5; Plates P-4 and P-5). During excavation activities, an area of previously-known impacted material (WOEWO-5) was also removed. Following excavation, soil samples were collected at the limits of the excavation. Three soil samples (EX5-W-3, EX5-S-3, and EX5-E-3) collected from the southern portion of the excavation contained TPH-O concentrations exceeding MTCA Method A Cleanup Levels (Plate P-5). Sample EX6-2-W collected from Excavation 6 to the south also contained a TPH-O concentration exceeding the MTCA Method A Cleanup Level. Samples collected from remaining portions of Excavation 5 following removal of impacted soil did not contain analyte concentrations exceeding MTCA Method A Cleanup Levels.

Remedial excavation activities were subsequently undertaken to remove additional impacted soil and to accommodate installation of the 66-inch diameter detention pipe (Plate P-6). Soil within the excavated area was removed from the surface to approximately 8 feet bgs to remove overlying newer fill and the impacted upper portion of the underlying peat identified during previous investigations. During excavation, two additional areas of previously-known impacted soil (WOFM3-7 and WOWWH-3) were also removed. Soil samples EXNW-4 and EXNE-4 collected at the northern portion of excavation following removal of impacted soil did not contain analyte concentrations above the laboratory reporting limits.

Laboratory results indicate that sample EXWATER collected from water at the northeastern portion of the foundation excavation did not contain analyte concentrations exceeding MTCA Method A Cleanup Levels.

Laboratory results indicate that the groundwater sample collected from AGW-6 did not contain any concentrations of TPH-G, TPH-D, TPH-O, benzene, toluene, ethylbenzene, total xylenes, or total or dissolved lead exceeding the MTCA Method A Cleanup Level.

7.0 WASTE DISPOSAL

Between September 13 and October 4, 1996 approximately 432 cubic yards (661 tons) of soil were excavated and transported to the TPS Technologies, Inc. facility in Tacoma, Washington, for treatment and recycling. An equal quantity of clean fill was imported and backfilled to restore the site to original grade. Soil disposal manifests are provided in Appendix B.

Approximately 100 gallons of water removed from the excavation were discharged to the sanitary sewer under an authorization from Metro. A copy of the Metro authorization letter is provided in Appendix C.

Approximately 250 cubic yards of clean peat material excavated by the building contractor were reportedly transported off site for reuse.

8.0 CONCLUSIONS

During September and October 1996, ERI visited the site to monitor site conditions, collect soil and groundwater samples, and observe removal of hydrocarbon-impacted soil. During the investigation, new areas of impacted soil were discovered in addition to areas of previously known impacts. Both the new and previously known impacted areas were removed, as practicable, and replaced with clean imported fill. During excavation, three of the four areas of previously identified impacted soil (WOEWO-5, WOFM3-7, and WOWWH-3) were removed and transported off site for treatment and recycling. The remaining area was not removed to avoid flooding the excavation with water from the former gasoline and diesel UST area.

Soil samples were collected at the limits of excavation following removal of impacted soil and submitted for laboratory analysis. Only one soil sample (EX1-W-3) collected from the western sidewall of Excavation 1 near the northern property boundary during the recent investigation contained a TPH-O concentration of 209 ppm, slightly exceeding the MTCA Method A Cleanup Level of 200 ppm. All other analyte concentrations in remaining samples collected from the limits of excavation following removal of impacted soil were below MTCA Method A Cleanup Levels. The one remaining area of previously known impacted soil and the one new area discovered during recent activities are shown on Plate P-7.

9.0 LIMITATIONS

The site assessment investigation was conducted in accordance with generally accepted standards of environmental geological practice at the time performed. This investigation was conducted solely for the purpose of evaluating environmental conditions of the soil with respect to hydrocarbons at the subject site. No soil engineering or geotechnical implications are stated or should be inferred. The evaluation of the geologic conditions at the site for the purpose of this investigation is made from a limited number of observation points. Subsurface conditions may vary away from the data points available.

10.0 REFERENCES

Environmental Resolutions, Inc., Independent Remedial Action Report dated January 5, 1996.

Environmental Resolutions, Inc., Excavation and Soil Sampling Report dated March 15, 1996.

Environmental Resolutions, Inc., Groundwater Monitoring and Sampling letter dated October 24, 1996.

TABLE T-1 SOIL ANALYTICAL RESULTS Former Texaco Facility 63-232-0037 8701 Greenwood Avenue North Seattle, Washington Page 1 of 1

Sample Name	Date	Depth	TPH-G	TPH-D	TPH-O	B	Τ	E	X	Pb		
Excavation Soil	Samples -	Newer Fi										
EX1-E-3ª	9/11/96	3	= <5.0	<10.0	27.7	<0.05	<0.05	<0.05	<0.10			
EX1-W-3 ^a	9/11/96	3	<5.0	43.7	209	<0.05	<0.05	<0.05	<0.10	_		
EX2-W-1.5 ^a	9/11/96	1.5	18.2	53.6	348	<0.05	<0.05	<0.05	<0.10			
EX3-E-2ª	9/11/96	2	Don	265*	1620*	<0.05	0.106	<0.05	0.139	_		
EX4-B-1°	9/12/96	1	<5.0	27.5	183	<0.05	<0.05	<0.05	<0.10			
EX5-S-3	9/17/96	3	12	24	1130	<0.05	<0.05	<0.05	<0.05	_		
EX5-E-3	9/17/96	3	37	15	1610*	<0.05	<0.05	<0.05	<0.05			
EX5-N-3	9/17/96	3	16	25	<40	0.11	<0.05	0.36	1.42			
EX5-W-3	9/17/96	3	35	18 🖺	1680	<0.05	<0.05	<0.05	< 0.05			
EX6-2-W	9/18/96	2	36	<20	1020*	<0.05	<0.05	<0.05				
EX6-2-W	9/18/96	2	30	<20 <20	1240*		<0.05 	<0.05	<0.05			
		2	-F O 198		GO STORE OF THE	-0.05			-0.40	-		
S1-2ª	9/25/96			293*	1510	<0.05	<0.05	<0.05	<0.10	-		
S2-2ª	9/25/96	2	<5.0	115	7161	<0.05	<0.05	<0.05	<0.10	-		
S3-1 ^a	9/25/96	1	<5.0	169	1040	<0.05	<0.05	<0.05	<0.10			
Excavation Soil Samples - Older Fill												
EX5-NE-3	9/17/96	3	890*	<20	<40	0.98	3.28	7.64	601			
T1-1-3	9/17/96	3	<10	<20	<40	<0.05	<0.05	<0.05	<0.05			
T2-1-3	9/17/96	3	<10	<20	<40	<0.05	< 0.05	< 0.05	<0.05			
T3-1-3	9/17/96	3	3770	<20	<40	5.16	7.7	14.9	40*			
T3-2-2	9/17/96	2	22001	<20	<40	1,94"	5.22	9.98	26,5"			
T3-3-3	9/18/96	3	<10	<20	<40	<0.05	<0.05	<0.05	<0.05			
EX5-NW-3	9/18/96	3	<10	<20	<40	<0.05	<0.05	<0.05	<0.05			
EX5-NW2-3	9/18/96	3	<10	<20	<40	<0.05	<0.05	<0.05	0.14			
EX5-NE1-3	9/18/96	3	<10	<20		<0.05				_		
EX5-NE2-3	9/18/96	3	<10	<20 <20	<40		<0.05	<0.05	<0.05	-		
					<40	<0.05	<0.05	<0.05	<0.05	-		
EX5-SE1-3	9/18/96	3	<10	<20	<40	<0.05	<0.05	<0.05	0.20			
EX5-SE2-3	9/18/96	3	<10	<20	<40	<0.05	<0.05	<0.05	<0.05			
EX5-E2-3	9/18/96	3	27	<20	<40	<0.05	<0.05	<0.05	0.07			
EXNE-4	10/4/96	4	<5	<25	<100	<0.05	<0.1	<0.1	<0.1			
EXNW-4	10/4/96	4	<5	<25	<100	<0.05	<0.1	<0.1	<0.1			
Stockpile Soil S	amples											
SP1-1	9/10/96	NA	<5.0	40.2	276	<0.05	< 0.05	<0.05	<0.10			
SP1-1ª	9/10/96	NA		35.7	159			_		_		
SP1-2	9/10/96	NA	<5.0	35.8	145	<0.05	<0.05	<0.05	<0.10	_		
SP1-2ª	9/10/96	NA		28.5	102			_				
SP2-1ª	9/11/96	NA	37.4	606	1110	<0.05	<0.05	<0.05	<0.10	_		
SP3-1 ^a	9/11/96	NA	5.76	34.1	58.1	<0.05	<0.05	<0.05	0.142			
SP4-1 ^a	9/11/96	NA	360°	83.4	56.3	<0.20	<0.20	1.35	5.15	-		
SP1-917	9/17/96	NA.	29		1600*	<0.20	<0.25	<0.05	<0.05			
SP2-917	9/17/96	NA	380*	<20	<40	0.25	0.27	1.34				
SP-1-100396	10/3/96	NA	<5	440	3800	<0.05	<0.1		5.83			
SP-1-100396	10/3/96	NA NA	\ 0[440 296	mer and all the second	~ 0.05	~0. 1	<0.1	<0.1	32		
SP-2-100396	10/3/96	NA NA	∭ <5	290 48	2030 * 116	<0.05	<0.1	-O 4	 -0 4	 89		
SP-2-100496 ^a	10/4/96	NA NA	4 5	48 26	<100			<0.1	<0.1			
SP-3-100496	10/4/96		 <5	26 110∰	490*	 -0.05	 -0.1					
SP-3-100496 ^a	10/4/96	NA NA		71	490 310°	<0.05 	<0.1 	<0.1 	<0.1 	26 		
				- 234								
Imported Backfi	_											
Backfill ^b	9/18/96	NA	<20	<50	<100			-				
MTCA Method A Cle	anup Level		100	200	200	0.5	40	20	20	200		

· EXPLANATION:

All concentrations in mg/kg (ppm).

All concentrations in maykg (ppm).

By IBA = Promo
Depths are in feet below grade.

Removed during excavation.

Sample analyzed using excavation.

Sample analyzed using Ecology Method HCID.

Sample analyzed using Ecology Method HCID.

By Benzene; Te Toluene; E = Ethylbenzene; X = Total Xylenes.

TH-G = Total Petroleum Hydrocarbons as Gasoline by Ecology Method WTPH-G.

TH-D and TPH-O = Total Petroleum Hydrocarbons as Diesel and Oil, respectively, by Ecology Method WTPH-D (extended).

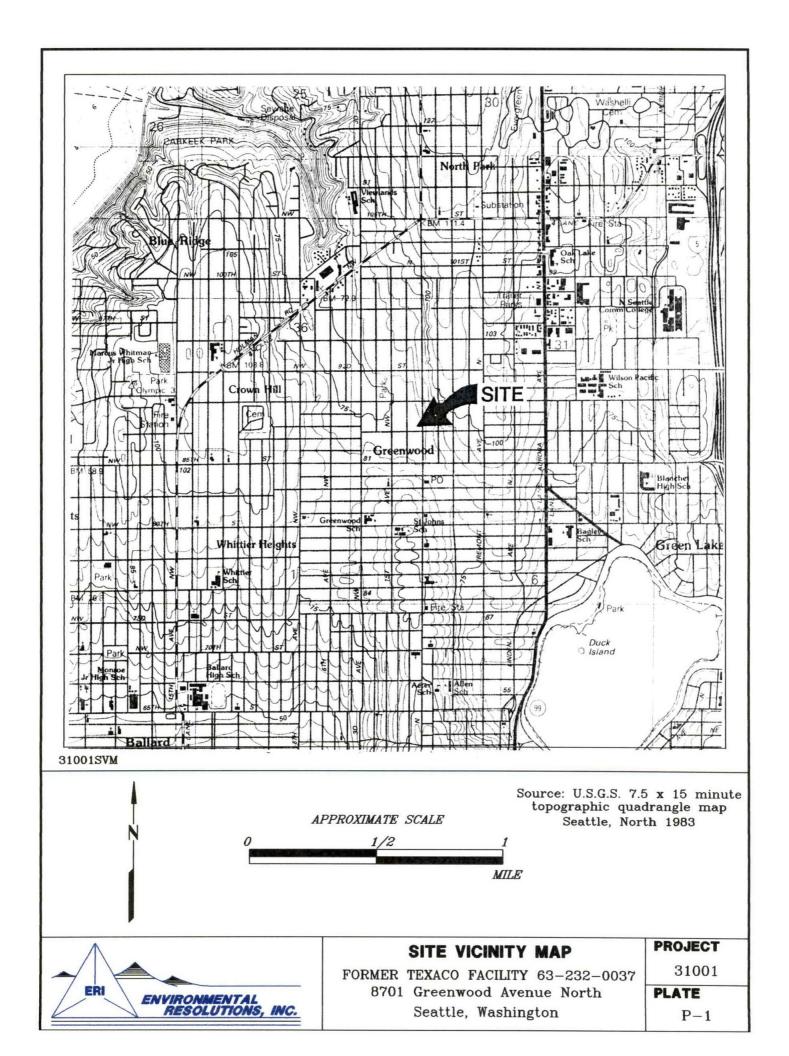
BTEX = Aromatic compounds by EPA Method 8020.
Pb = Total Lead by EPA Method 7420.

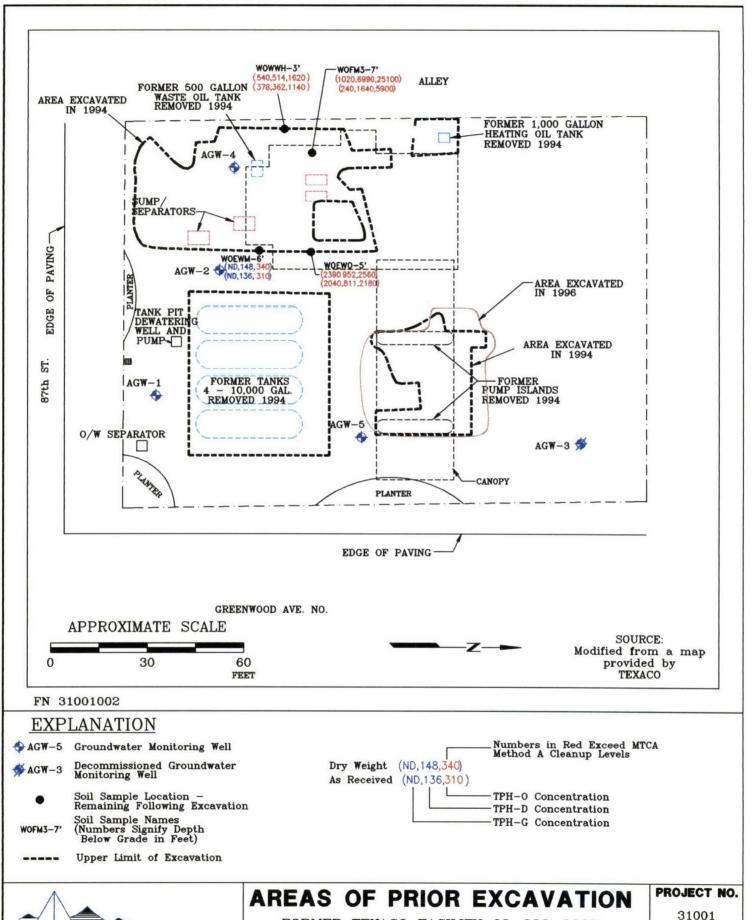
NA = Not applicable.

= Not Analyzed.

Shaded values exceed MTCA Method A Cleanup Levels.

<= Less than the stated laboratory reporting limit.



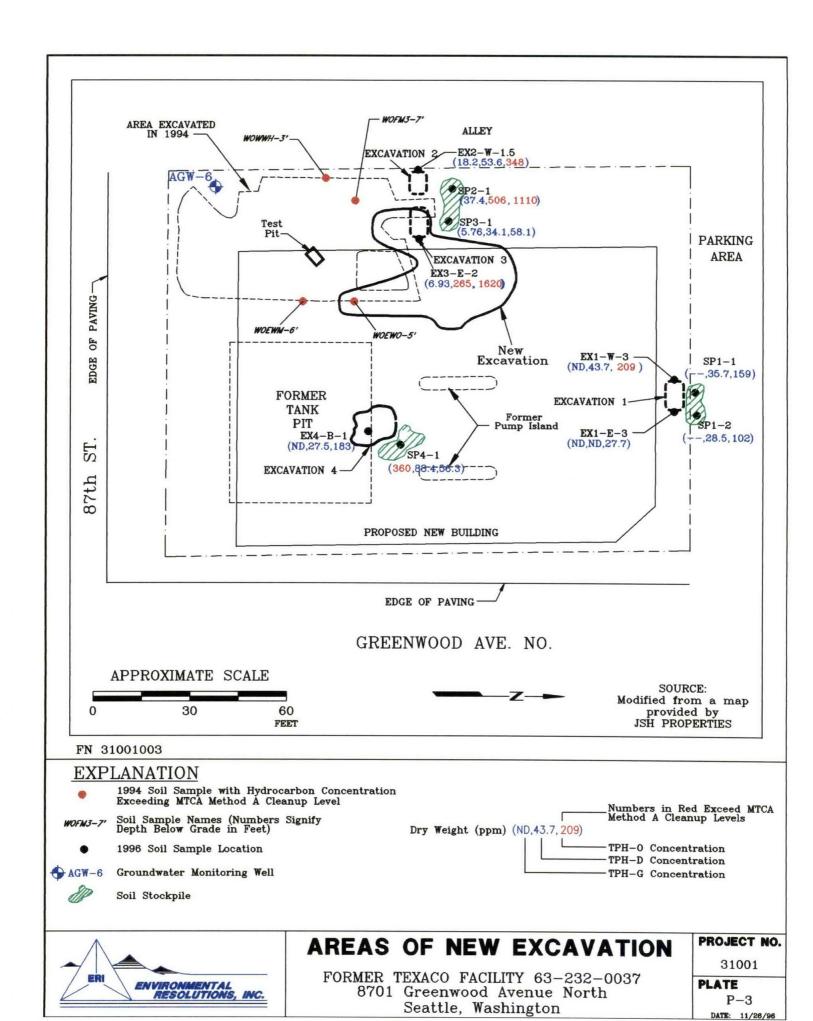


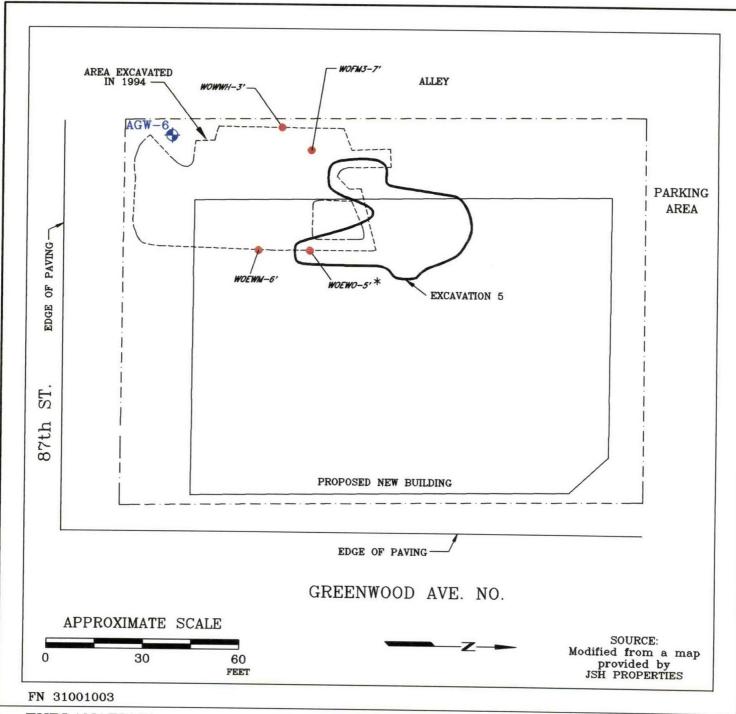


FORMER TEXACO FACILITY 63-232-0037 8701 Greenwood Avenue North Seattle, Washington

PLATE

P-2 DATE: 11/26/95





EXPLANATION

1994 Soil Sample with Hydrocarbon Concentration exceeding MTCA Method A Cleanup Level

WOFM3-7' Soil Sample Names (Numbers Signify Depth Below Grade in Feet)

◆ AGW-6 Groundwater Monitoring Well

* Removed During Excavation



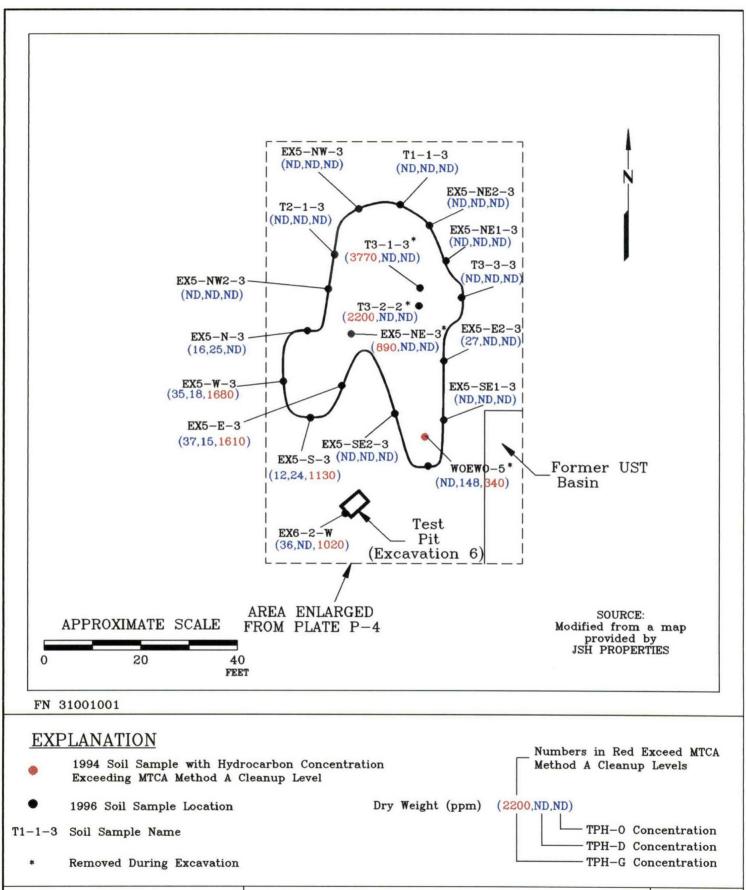
AREA OF IMPACTED SOIL REMOVAL

FORMER TEXACO FACILITY 63-232-0037 8701 Greenwood Avenue North Seattle, Washington PROJECT NO.

31001

PLATE

P-4
DATE: 11/26/96



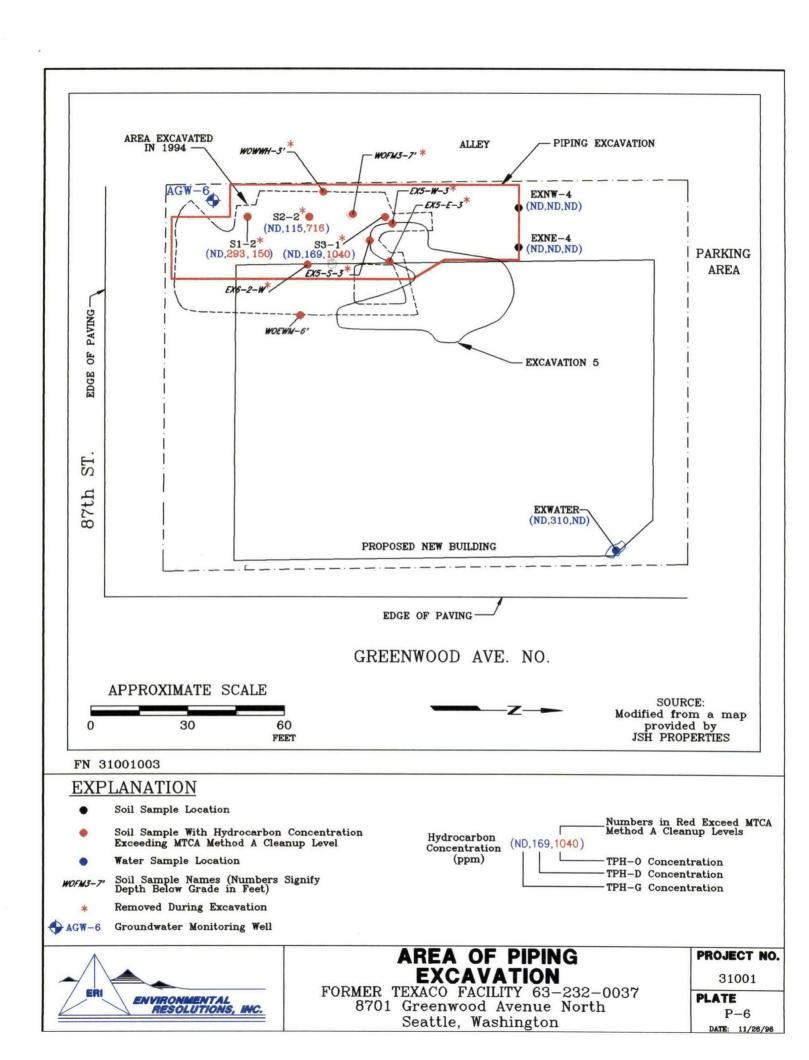


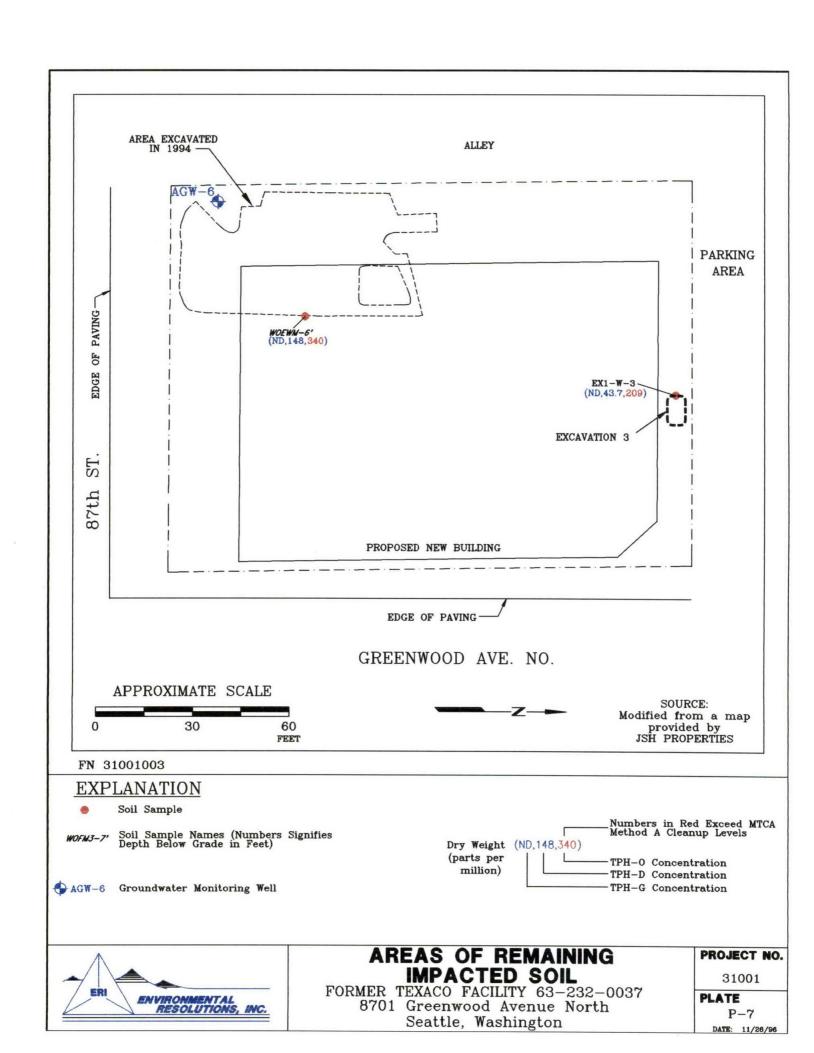
SOIL SAMPLE ANALYSES MAP

FORMER TEXACO FACILITY 63-232-0037 8701 Greenwood Avenue North Seattle, Washington PROJECT NO.

31001 PLATE

P-5
DATE: 11/26/96





APPENDIX A LABORATORY REPORTS AND CHAIN OF CUSTODY



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI 1921 Edmonds Drive SE Renton, WA 98055 Project: Texaco #63-232-0037

Project Number: Not Provided

Sampled: 9/10/96 Received: 9/10/96

Project Manager: John Meyer

Reported: 9/12/96

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
SPI-1	B609137-01	Soil	9/10/96
SP1-2	B609137-02	Soil	9/10/96

North Creek Analytical, Inc.

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.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

				_
1	ERI	Project: Texaco #63-232-0037 Sample	ed: 9/10/96	
	1921 Edmonds Drive SE	Project Number: Not Provided Receive	ed: 9/10/96	
			ed: 9/12/96	
	Renton, WA 98055	Project Manager: John Meyer Report		_

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
			DC0011	27 01	,		Soil, dry wt.	
<u>SP1-1</u>			B6091	<u> </u>	5.00	ND		
Gasoline Range Hydrocarbons	0960188	9/10/96	9/10/96		5.00	ND	mg/kg (ppm)	
Benzene	n,	11	11		0.0500	ND	"	
Toluene	n	11	11		0.0500	ND	Ħ	
Ethylbenzene	n	11	11		0.0500	ND	II	
Xylenes (total)	n	11	n		0.100	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		82.2	%	
Surrogate: 4-BFB (PID)	н	"	. #	49.0-142		82.2	"	
<u>SP1-2</u>			В60913	37-0 <u>2</u>			Soil, dry wt.	
Gasoline Range Hydrocarbons	0960188	9/10/96	9/10/96		5.00	ND	mg/kg (ppm)	
Benzene	"	II	ti .		0.0500	ND	n	
Toluene		11	**		0.0500	ND	n	
	n	н	•		0.0500	ND	ti	
Ethylbenzene	H	н	11		0.100	ND	**	
Xylenes (total)				50.0.150	0.100		%	
Surrogate: 4-BFB (FID)	"			50.0-150		89.0	% "	
Surrogate: 4-BFB (PID)	"	"	"	<i>49.0-142</i>		90.1	••	

North Creek Analytical, Inc.

*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco #63-232-0037 Sampled: 9/10/96
1921 Edmonds Drive SE Project Number: Not Provided Received: 9/10/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/12/96

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended)

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number P	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>SP1-1</u>			B6091	37-01			Soil, dry wt.	
Diesel Range Hydrocarbons	0960200	9/10/96	9/11/96		10.0	40.2	mg/kg (ppm)	
Heavy Oil Range Hydrocarbons	11	н	н		25.0	276		
Surrogate: 2-FBP	п	"	"	50.0-150		72.2	%	
<u>SP1-2</u>			B6091	37-02			Soil, dry wt.	
Diesel Range Hydrocarbons	0960200	9/10/96	9/11/96		10.0	35.8	mg/kg (ppm)	
Heavy Oil Range Hydrocarbons	н	n	ti		25.0	145	II	
Surrogate: 2-FBP	"	"	"	50.0-150		80.8	%	

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*Refer to end of report for text of notes.



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Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI	Project: Texaco #63-232-0037	Sampled: 9/10/96
1921 Edmonds Drive SE	Project Number: Not Provided	Received: 9/10/96
Renton, WA 98055	Project Manager: John Meyer	Reported: 9/12/96
11011011, 1111 20000		

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) with Silica Gel Clean-up

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
			DC001:	27.01	,		Soil, dry wt.	
<u>SP1-1</u>			<u>B6091</u>	<u>37-01</u>				
Diesel Range Hydrocarbons	0960200	9/10/96	9/12/96		10.0	35.7	mg/kg (ppm)	
Heavy Oil Range Hydrocarbons	н	н	11		25.0	159	H	
Surrogate: 2-FBP	н	·#	"	50.0-150		65.3	%	
<u>SP1-2</u>			B6091	<u>37-02</u>			Soil, dry wt.	
Diesel Range Hydrocarbons	0960200	9/10/96	9/12/96		10.0	28.5	mg/kg (ppm)	
Heavy Oil Range Hydrocarbons	"	11	11		25.0	102	11	
Surrogate: 2-FBP	rt .	"	"	50.0-150		64.2	%	

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*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco #63-232-0037 Sampled: 9/10/96
1921 Edmonds Drive SE Project Number: Not Provided Received: 9/10/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/12/96

Dry Weight Determination

	· · · · · ·			
Sample Name	Lab ID	Matrix	Result	Units
SP1-1	B609137-01	Soil .	85.9	%
SP1-2	B609137-02	Soil	88.3	%

North Creek Analytical, Inc.

Matthew Essig, Project Manager

Page 5 of 9



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco #63-232-0037 Sampled: 9/10/96
1921 Edmonds Drive SE Project Number: Not Provided Received: 9/10/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/12/96

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A Quality Control

	Date	Spike	Sample	QC	Repor	ting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units Re	cov. Limits	%	Limit	%	Notes*
Batch: 0960188	Date Prepa		<u>96</u>							
<u>Blank</u>	<u>0960188-BI</u>	<u>.K1</u>			Soil, dry wt.					
Gasoline Range Hydrocarbons	9/10/96			ND	mg/kg (ppm)	5.00				
Benzene	If			ND	n	0.0500				
Toluene				ND	0	0.0500				
Ethylbenzene	u .			ND	11	0.0500				
Xylenes (total)	. 11			ND	11	0.100				
Surrogate: 4-BFB (FID)	"	4.00		3.88		50.0-150	97.0			
Surrogate: 4-BFB (PID)	n·	4.00		4.04	"	49.0-142	101			
Blank Spike	<u>0960188-BS</u>	<u> </u>			Soil, dry wt.					
Gasoline Range Hydrocarbons	9/10/96	25.0		23.8	mg/kg (ppm)	37.0-119		_		
Surrogate: 4-BFB (FID)	. "	4.00		4.12	"	50.0-150	103			
Duplicate	0960188-DI	<u>JP1 B</u>	609116-04		Soil, dry wt.					
Gasoline Range Hydrocarbons	9/10/96		ND	ND	mg/kg (ppm)			53.0		
Surrogate: 4-BFB (FID)	п	4.29		3.86	"	50.0-150	90.0			
Matrix Spike	0960188-M	S <u>1</u> B	609087-01		Soil, dry wt.					
Benzene	9/10/96	0.541	ND	0.468	mg/kg (ppm)	58.0-114	86.5			
Toluene	н	0.541	ND	0.467	II.	- 59.0-113	86.3			
Ethylbenzene	U	0.541	ND	0.486	W ,	58.0-118	89.8			
Xylenes (total)	n	1.62	ND	1.44	11	61.0-119	88.9			
Surrogate: 4-BFB (PID)		4.33		4.11	n .	49.0-142	94.9			
Matrix Spike Dup	0960188-M	SD1 R	609087-01		Soil, dry wt.					
Benzene	9/10/96	0.541	ND	0.462	mg/kg (ppm)	58.0-114	85.4	17.4	1.28	
Toluene	9/10/90	0.541	ND	0.460	11.8 v.8 (bb)	59.0-113	85.0	16.5	1.52	
Ethylbenzene	u	0.541	ND	0.484	ti	58.0-118	89.5	16.9	0.335	
Xylenes (total)	n	1.62	ND	1.43	u	61.0-119	88.3	18.3	0.677	
Surrogate: 4-BFB (PID)	"	4.33		4.20	"	49.0-142	97.0			

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*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI 1921 Edmonds Drive SE Renton, WA 98055

Project Number: Not Provided

Project: Texaco #63-232-0037

Sampled:

9/10/96 Received: 9/10/96

Project Manager: John Meyer

9/12/96 Reported:

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) Quality Control

	Date	Spike	Sample	QC	Rep	orting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units R	ecov. Limits	<u>%</u>	Limit	%	Notes*
Batch: 0960200	Date Prepa	red: 9/10/9	<u> </u>							
Blank	0960200-BI	LK1			Soil, dry wt	<u>.</u>				
Diesel Range Hydrocarbons	9/10/96			ND	mg/kg (ppm) 10.0				
Heavy Oil Range Hydrocarbons	11			ND	ti .	25.0	,			
Surrogate: 2-FBP	"	11.5		9.70	#	50.0-150	84.3			
Blank Spike	0960200-BS	<u>51</u>			Soil, dry wt	<u>.</u>				
Diesel Range Hydrocarbons	9/10/96	68.1		69.5	mg/kg (ppm	66.0-131	102			
Surrogate: 2-FBP	11	11.5	•	9.59	ıı -	50.0-150	83.4	-		_
Duplicate	0960200-DI	UP1 Be	609055-08		Soil, dry wt	<u>.</u>			.•	<u>1</u>
Diesel Range Hydrocarbons	9/11/96		1640	3260	mg/kg (ppm)		48.0	66.1	
Surrogate: Octacosane	"	16.8		10.9	. "	50.0-150	64.9			2

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*Refer to end of report for text of notes.

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Environmental Laboratory Services

Offices:

BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Sampled: 9/10/96 Project: Texaco #63-232-0037 ERI Received: 9/10/96 Project Number: Not Provided 1921 Edmonds Drive SE Reported: 9/12/96 Project Manager: John Meyer Renton, WA 98055

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) with Silica Gel Clean-up Quality Control

	Date	Spike	Sample	QC	Units	Reporting Limit Recov. Limits		RPD Limit	RPD %	Notes*
Analyte	Analyzed	Level	Result	Result	Ollits	Recov. Limits	70		70	110103
Batch: 0960200	Date Prepa	red: 9/10/	<u>96</u>			•				
Blank	<u>0960200-Bl</u>	L <u>K1</u>			<u>Soil, dr</u>	y wt.				
Diesel Range Hydrocarbons	9/12/96			ND	mg/kg ((ppm) 10.0				
Heavy Oil Range Hydrocarbons	n			ND	11	25.0				
Surrogate: 2-FBP	"	11.5		9.49	"	50.0-150	82.5			
Blank Spike	09602 <u>00-B</u> 5	S1			Soil, dr	<u>y wt.</u>				
Diesel Range Hydrocarbons	9/12/96	68.1		82.1	mg/kg ((ppm) 66.0-131	121			
Surrogate: 2-FBP	. "	11.5	•	10.5	"	50.0-150	91.3			

North Creek Analytical, Inc.

*Refer to end of report for text of notes.



BOTHELL **(206)** 481-9200 **FAX** 485-2992 SPOKANE **(509)** 924-9200 **FAX** 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco #63-232-0037 Sampled: 9/10/96
1921 Edmonds Drive SE Project Number: Not Provided Received: 9/10/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/12/96

Notes

Note

Please refer to NCR. 9/12/96 MMJ

2 Due to problems encountered with the use of the primary surrogate the results of the back-up surrogate have been used to control the analysis.

North Creek Analytical, Inc.

Matthew Essig, Project Mayager

Page 9 of 9



18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-299.

East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-929.

9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-220.

2	
90	
02	

TEXACO CHAIN OF CUSTODY REPORT Work Order #: \(\beta_{\lambda} \gamma \lambda_{\lambda} \gamma \rangle \gamma_{\lambda} \gamma \gamma_{\lambda} \gamma_{\lambda

CONSULTANT: E/2/	TPV A CO TNI	FORMATION	TURNAROUND REQUEST in Business Days			
	TEXACO PROJECT MANAGER:	FORMATION	Organic & Inorg	anic Analyses *		
ADDRESS: 1921 Edmon 15 Dr 55	TEXACO FACILITY NUMBER:		10 5	3 1		
Renton, WA 9755	SITE ADDRESS: 820/6/	· /	Air Anal	yses •		
PHONE: 227-0270 FAX: 227-022		· ·	3	1		
PROJECT NAME: TEXONO COMMUNED)	State Hydrocarbon Methods (please ci					
PROJECT NUMBER: 63 - 232-0037	Analysis	//////	OTHER Specify:			
SAMPLED BY: John Made	Request: A	/ / 2 / /	* Standard Turnaround for Organic & Inorganic Analyses is 10 Days			
sem ma			* Standard Turnaround for	Air Analyses is 3 Days		
NCA SAMPLE CLIENT SAMPLE SAMPLE BLOOTHER 7-0 IDENTIFICATION DATE / TI	Analysis Request: A S S S S S S S S S S S S S S S S S S	O September 1 Sept	MATRIX # OF	COMMENTS &		
			(W, S, O) CONTAINERS	<u> </u>		
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BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND **(503)** 643-9200 **FAX** 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI 1921 Edmonds Drive SE Renton, WA 98055

Project: Texaco #63-232-0037

Project Number: 31001.14T3

Project Manager: John Meyer

Sampled: 9/11/96 Received: 9/11/96

Reported: 9/17/96

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
EX1-E-3	B609175-01	Soil	9/11/96
EX1-W-3	B609175-02	Soil .	9/11/96
EX2-W-1.5	B609175-03	Soil	9/11/96
SP2-1	B609175-04	Soil :	9/11/96
EX3-E-2	B609175-05	Soil	9/11/96
SP3-1	B609175-06	Soil	9/11/96
SP4-1	B609175-07	Soil	9/11/96

North Creek Analytical, Inc.

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Matthew Essig, Project Manager

Page 1 of 9



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

 ERI
 Project:
 Texaco #63-232-0037
 Sampled:
 9/11/96

 1921 Edmonds Drive SE
 Project Number:
 31001.14T3
 Received:
 9/11/96

 Renton, WA 98055
 Project Manager:
 John Meyer
 Reported:
 9/17/96

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A

, , , , , , , , , , , , , , , , , , , ,	Batch	Date	Date	Surrogate	Reporting		<u> </u>	
A	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
Analyte	Number	Frepareu	Allalyzeu	Limits		7100011		
EX1-E-3	B609175-01						Soil, dry wt.	
Gasoline Range Hydrocarbons	0960235	9/12/96	9/12/96		5.00	ND	mg/kg (ppm)	
Benzene	n	11	11		0.0500	ND	"	
Toluene	**	n	11		0.0500	ND	11	
	11	9 1	II.		0.0500	ND	11	
Ethylbenzene Valence (total)	11	11	"		0.100	ND	11	
Xylenes (total)		,,		50.0-150		84.0	%	
Surrogate: 4-BFB (FID)	n	,,	,,	49.0-142		85.0	n	
Surrogate: 4-BFB (PID)				47.0-142		•		
EX1-W-3			B6091	7 <u>5-02</u>			Soil, dry wt.	
Gasoline Range Hydrocarbons	0960235	9/12/96	9/12/96		5.00	ND	mg/kg (ppm)	
Benzene	"	H	11		0.0500	ND	11	
Toluene	н	u	11		0.0500	ND	II .	
Ethylbenzene	11	н	11		0.0500	ND	If	
Xylenes (total)	11	*1	10		0.100	ND	U,	
Surrogate: 4-BFB (FID)		,,	<i>n</i>	50.0-150		85.9	%	
	,,	,,	"	49.0-142		85.0	"	
Surrogate: 4-BFB (PID)				13.0 112				
EX2-W-1.5			B6091	<u>75-03</u>			Soil, dry wt.	
Gasoline Range Hydrocarbons	0960329	9/16/96	9/16/96		5.00	18.2	mg/kg (ppm)	
Benzene	ir .	н	n		0.0500	ND	n	
Toluene	10	II .	n		0.0500	ND	п	
Ethylbenzene	19	n	u		0.0500	ND	II .	
Xylenes (total)	tt.	н	ti		0.100	ND	п	
Surrogate: 4-BFB (FID)	· · · · · · · · · · · · · · · · · · ·	.,,	"	50.0-150		88.1	%	
Surrogate: 4-BFB (PID)	"	"	"	49.0-142		84.0	"	
Surrogale. 4-BFB (FID)	•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
SP2-1			B6091	75-0 <u>4</u>			Soil, dry wt.	
Gasoline Range Hydrocarbons	0960235	9/12/96	9/12/96		5.00	37.4	mg/kg (ppm)	
Benzene	11	n	II .		0.0500	ND	n	
Toluene	11	n	10		0.0500	ND	п	
Ethylbenzene	II .	п	υ		0.0500	ND	17	
Xylenes (total)	11	· n	D		0.100	ND	U	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		85.1	%	
Surrogate: 4-BFB (PID)	,,	"	H	49.0-142		82.9	"	
EX3-E-2			B6091	<u>75-05</u>			Soil, dry wt.	
Gasoline Range Hydrocarbons	0960329	9/16/96	9/16/96		5.00	6.93	mg/kg (ppm)	
Benzene	II.	11	11		0.0500	ND	11	
Toluene	11	ii .	n		0.0500	0.106	II	

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*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

 ERI
 Project:
 Texaco #63-232-0037
 Sampled:
 9/11/96

 1921 Edmonds Drive SE
 Project Number:
 31001.14T3
 Received:
 9/11/96

 Renton, WA 98055
 Project Manager:
 John Meyer
 Reported:
 9/17/96

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
DV2 F 2 (timed)			B6091'	75_05			Soil, dry wt.	
EX3-E-2 (continued)	0960329	9/16/96	9/16/96	73-05	0.0500	ND	mg/kg (ppm)	
Ethylbenzene	U90U3Z9 "	9/10/90 II	9/10/90		0.100	0.139	"	
Xylenes (total)				50.0-150	0.100	82.0	%	
Surrogate: 4-BFB (FID)		 11	 #			82.0	"	
Surrogate: 4-BFB (PID)	"	"	"	49.0-142		02.0		
<u>SP3-1</u>			B6091	7 <u>5-06</u>			Soil, dry wt.	
Gasoline Range Hydrocarbons	0960235	9/12/96	9/12/96		5.00	5.76	mg/kg (ppm)	
Benzene	H	*1	Ħ		0.0500	ND	н	
Toluene	u .	н	n		0.0500	ND	11	
Ethylbenzene	n	. 11	11		0.0500	ND	*1	
Xylenes (total)	**	H	н		0.100	0.142		
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		91.9	%	
Surrogate: 4-BFB (PID)	"	"	"	49.0-142		91.9	"	
SP4- <u>1</u>			B609 <u>1</u> ′	75-07			Soil, dry wt.	
Gasoline Range Hydrocarbons	0960235	9/12/96	9/12/96	 _	20.0	360	mg/kg (ppm)	
Benzene	"	11	11		0.200	ND	11	
Toluene	n	II .	, n		0.200	ND	0	
	n	It	IJ		0.200	1.35	u	
Ethylbenzene Vulence (total)	II.	II .	n		0.400	5.15	u	
Xylenes (total)		. ,,		50.0-150		109	%	
Surrogate: 4-BFB (FID)	"	II .	"	49.0-142		87.0	n .	
Surrogate: 4-BFB (PID)	••	•		47.U-144		07.0		

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*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

 ERI
 Project:
 Texaco #63-232-0037
 Sampled:
 9/11/96

 1921 Edmonds Drive SE
 Project Number:
 31001.14T3
 Received:
 9/11/96

 Renton, WA 98055
 Project Manager:
 John Meyer
 Reported:
 9/17/96

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) with Silica Gel Clean-up

	Batch	Date	Date	Surrogate	Reporting	-		
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
EX1- <u>E-3</u>			<u>B6091</u>	<u>75-01</u>			Soil, dry wt.	
Diesel Range Hydrocarbons	0960229	9/11/96	9/12/96		10.0	ND	mg/kg (ppm)	
Heavy Oil Range Hydrocarbons	H	n .	n		25.0	27.7	et	
Surrogate: 2-FBP	"	"	"	50.0-150		63.3	%	
EX1-W-3			B6091	<u>75-02</u>			Soil, dry wt.	
Diesel Range Hydrocarbons	0960229	9/11/96	9/12/96		10.0	43.7	mg/kg (ppm)	
Heavy Oil Range Hydrocarbons	11	- 11	**		25.0	209	U	
Surrogate: 2-FBP	"	"	"	50.0-150		65.1	%	
EX2-W-1.5			B6091	75-03			Soil, dry wt.	
Diesel Range Hydrocarbons	0960312	9/13/96	9/14/96		10.0	53.6	mg/kg (ppm)	
Heavy Oil Range Hydrocarbons	"	J/ 13/30	"		25.0	348	"	
Surrogate: 2-FBP	"	"	"	50.0-150		83.0	%	
CD2 1			B6091	75-04			Soil, dry wt.	
SP2-1	0960229	9/11/96	9/12/96	75-04	10.0	506	mg/kg (ppm)	1
Diesel Range Hydrocarbons	U3UU223)/ 1 1 /) U)/ 12/ JU		25.0	1110	"	
Heavy Oil Range Hydrocarbons Surrogate: 2-FBP	"	n n	<i>n</i>	50.0-150		69.8	%	
BV2 E 4			B6091	75_05			Soil, dry wt.	
EX3-E-2	0960312	9/13/96	9/14/96	75-05	10.0	265	mg/kg (ppm)	
Diesel Range Hydrocarbons Heavy Oil Range Hydrocarbons	11)/13/70 II)/ 1-///U		25.0	1620	"	
Surrogate: 2-FBP	"	"		50.0-150		72.1	%	
on2 1			B6091	75-06			Soil, dry wt.	
SP3-1	0960229	9/11/96	9/12/96	<u>, 5-00</u>	10.0	34.1	mg/kg (ppm)	2
Diesel Range Hydrocarbons	0900229	9/11/90 "	9/12/90		25.0	58.1	"Burg (pp)	_
Heavy Oil Range Hydrocarbons		<u> </u>		50.0-150		71.8	%	
Surrogate: 2-FBP				50.0-150		. 1.0		
SP4-1			B6091	<u>75-07</u>			Soil, dry wt.	
Diesel Range Hydrocarbons	0960229	9/11/96	9/12/96		10.0	83.4	mg/kg (ppm)	3
Heavy Oil Range Hydrocarbons	п	D	II .		25.0	56.3		
Surrogate: 2-FBP	"	"	"	50.0-150		72.5	%	

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BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

 ERI
 Project:
 Texaco #63-232-0037
 Sampled:
 9/11/96

 1921 Edmonds Drive SE
 Project Number:
 31001.14T3
 Received:
 9/11/96

 Renton, WA 98055
 Project Manager:
 John Meyer
 Reported:
 9/17/96

Dry Weight Determination

Sample Name	Lab ID	Matrix	Result	Units
EX1-E-3	B609175-01	Soil	83.1	%
EX1-W-3	B609175-02	Soil	89.7	%
EX1-W-1.5	B609175-03	Soil	85.0	%
SP2-1	B609175-04	Soil	87.5	%
EX3-E-2	B609175-05	Soil	81.9	%
SP3-1	B609175-06	Soil	92.7	%
SP4-I	B609175-07	Soil	, 88.2	%

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Matthew Essig, Project Manager

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BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

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Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

 ERI
 Project:
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 Sampled:
 9/11/96

 1921 Edmonds Drive SE
 Project Number:
 31001.14T3
 Received:
 9/11/96

 Renton, WA 98055
 Project Manager:
 John Meyer
 Reported:
 9/17/96

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A Quality Control

	Date	Spike	Sample	QC	Repo	rting Limit	Recov.	RPD	RPD
Analyte	Analyzed	Level	Result	Result	Units R	ecov. Limits	%	Limit	% Notes*
Batch: 0960235	Date Prepa	red: 9/12/	<u>'96</u>						
Blank	0960235-BI	LK1			Soil, dry wt.				
Gasoline Range Hydrocarbons	9/12/96			ND	mg/kg (ppm)	5.00			
Benzene	Ħ			ND	11	0.0500			
Toluene	10			ND ·		0.0500			
Ethylbenzene	11			ND	IF	0.0500			
Xylenes (total)	11			ND		0.100			
Surrogate: 4-BFB (FID)	"	4.00		3.96	"	50.0-150	99.0		
Surrogate: 4-BFB (PID)	"	4.00		3.88	rr .	49.0-142	97.0		
Blank Spike	0960235-BS	<u>81</u>			Soil, dry wt.				
Gasoline Range Hydrocarbons	9/12/96	25.0		22.7	mg/kg (ppm)				
Surrogate: 4-BFB (FID)	"	4.00		4.08	"	50.0-150	102		
Duplicat <u>e</u>	0960235-D	<u>UP1 B</u>	609175-07		Soil, dry wt.				
Gasoline Range Hydrocarbons	9/12/96		360	434	mg/kg (ppm)			53.0	18.6
Surrogate: 4-BFB (FID)	"	4.53		4.81	"	50.0-150	106		
Duplicate	0960235-D	UP2 B	609174-10		Soil, dry wt.				
Gasoline Range Hydrocarbons	9/12/96		ND	ND	mg/kg (ppm)		_	53.0	
Surrogate: 4-BFB (FID)	"	4.35		3.74	"	50.0-150	86.0		
Matrix Spike	0960235-M	<u>S1</u> <u>B</u>	609175-06		Soil, dry wt.				
Benzene	9/12/96	0.540	ND	0.432	mg/kg (ppm)	58.0-114			
Toluene	n	0.540	ND	0.425	U	59.0-113			
Ethylbenzene	tt	0.540	ND	0.455	ti	58.0-118			
Xylenes (total)	ti .	1.62	0.142	1.44		61.0-119			
Surrogate: 4-BFB (PID)		4.32		4.71	н	49.0-142	109		
Matrix Spike Dup	096023 <u>5-M</u>	SD1 B	3609175-0 <u>6</u>		Soil, dry wt.				
Benzene	9/12/96	0.540	ND	0.443	mg/kg (ppm)	58.0-114		17.4	2.47
Toluene	n	0.540	ND	0.432	н	59.0-113		16.5	1.64
Ethylbenzene	**	0.540	ND	0.467	п	58.0-118		16.9	2.58
Xylenes (total)	ti .	1.62	0.142	1.48	n	61.0-119		18.3	3.07
Surrogate: 4-BFB (PID)	"	4.32		4.01	"	49.0-142	92.8		
Batch: 0960329	Date Prepa	red; 9/16/	<u> 196</u>						
Blank	0960329-Bl				Soil, dry wt.				
Gasoline Range Hydrocarbons	9/16/96			ND	mg/kg (ppm)	5.00			

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*Refer to end of report for text of notes.

Matthew Essig, Project Manager

Page 6 of 9



BOTHELL **=** (206) 481-9200 **=** FAX 485-2992 SPOKANE **=** (509) 924-9200 **=** FAX 924-9290 PORTLAND **=** (503) 643-9200 **=** FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco #63-232-0037 Sampled: 9/11/96
1921 Edmonds Drive SE Project Number: 31001.14T3 Received: 9/11/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/17/96

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A Ouality Control

RPD Reporting Limit Recov. RPD ОC Date Spike Sample Recov. Limits Limit % Notes* Analyzed Level Result Result Units Analyte Soil, dry wt. 0960329-BLK1 Blank (continued) 0.0500 ND mg/kg (ppm) Benzene 9/16/96 0.0500 ND Toluene 0.0500 ND Ethylbenzene 0.100 11 ND Xylenes (total) 99.0 3.96 50.0-150 4.00 Surrogate: 4-BFB (FID) 49.0-142 97.0 4.00 3.88 Surrogate: 4-BFB (PID) Soil, dry wt. 0960329-BS1 Blank Spike 37.0-119 94.0 23.5 25.0 mg/kg (ppm) Gasoline Range Hydrocarbons 9/16/96 50.0-150 107 Surrogate: 4-BFB (FID) 4.00 4.28 Soil, dry wt. 0960329-DUP1 B609175-03 Duplicate 53.0 16.6 18.2 21.5 mg/kg (ppm) Gasoline Range Hydrocarbons 9/16/96 50.0-150 86.2 4.05 Surrogate: 4-BFB (FID) 4.70 B609175-05 Soil, dry wt. 0960329-MS1 Matrix Spike 76.9 0.470 mg/kg (ppm) 58.0-114 9/16/96 0.611 ND Benzene 59.0-113 71.7 0.544 0.611 0.106 Toluene 0.494 58.0-118 80.9 ND 0.611 Ethylbenzene 61.0-119 76.6 1.54 Xylenes (total) 1.83 0.139 49.0-142 86.9 4.89 4.25 Surrogate: 4-BFB (PID) Soil, dry wt. B609175-05 0960329-MSD1 Matrix Spike Dup 80.9 17.4 5.07 mg/kg (ppm) 58.0-114 9/16/96 0.611 ND 0.494 Benzene 11.7 59.0-113 63.8 16.5 0.106 0.496 Toluene 0.611 58.0-118 83.3 16.9 2.92 Ethylbenzene 11 0.611 ND 0.509 4.09 1.83 0.139 1.60 61.0-119 79.8 18.3 Xylenes (total)

4.11

4.89

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Surrogate: 4-BFB (PID)

*Refer to end of report for text of notes.

49.0-142

84.0



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 ■ FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Sampled: 9/11/96

Received: 9/11/96

Reported: 9/17/96

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Project: Texaco #63-232-0037 ERI Project Number: 31001.14T3 1921 Edmonds Drive SE Renton, WA 98055 Project Manager: John Meyer

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) with Silica Gel Clean-up Quality Control

	Date	Spike	Sample	QC	Repo	rting Limit		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units Re	cov. Limits	%	Limit	%	Notes*
D. (.). 00(0220	Date Prepa	rad: 0/11/	06							
Batch: 0960229	0960229-BI		90		Soil, dry wt.					
Blank Birol Borge Hydrosorbons	9/12/96	<u> 117.1</u>		ND	mg/kg (ppm)	10.0				
Diesel Range Hydrocarbons	9/12/90			ND	"" (PP)	25.0				
Heavy Oil Range Hydrocarbons		11.5		7.13	"	50.0-150	62.0			
Surrogate: 2-FBP		11.5		7.13		20.0 .20				
Blank Spike	0960229-BS	<u> </u>			Soil, dry wt.					
Diesel Range Hydrocarbons	9/12/96	68.1		47.6	mg/kg (ppm)	66.0-131	69.9			
Surrogate: 2-FBP	"	11.5		6.65	"	50.0-150	57.8			
Duplicate	0960229-D1	IIP1 R	609163 <u>-01</u>		Soil, dry wt.					4
Diesel Range Hydrocarbons	9/12/96	<u> </u>	74.7	50.3	mg/kg (ppm)			48.0	39.0	_
Surrogate: 2-FBP	"	15.6		8.91	"	50.0-150	57.1		_	
2 28										
Batch: 0960312	Date Prepa	red: 9/13/	<u>96</u>							
Blank	<u>0960312-BI</u>	<u>K1</u>			<u>Soil, dry wt.</u>					
Diesel Range Hydrocarbons	9/14/96			ND	mg/kg (ppm)	10.0				
Heavy Oil Range Hydrocarbons	n			ND	11	25.0				
Surrogate: 2-FBP	"	11.5		9.02	"	50.0-150	78.4			
Blank Spike	0960312-BS	81			Soil, dry wt.					
Diesel Range Hydrocarbons	9/14/96	68.1		66.0	mg/kg (ppm)	66.0-131	96.9			
Surrogate: 2-FBP	"	11.5	-	8.77	"	50.0-150	76.3			
Dunlinata	0960312-DI	TP1 R	609175- <u>05</u>		Soil, dry wt.					
<u>Duplicate</u> Diesel Range Hydrocarbons	9/14/96	<u> </u>	265	248	mg/kg (ppm)			48.0	6.63	
	<u> </u>	14.0		10.2	" (ppin)	50.0-150	72.9			
Surrogate: 2-FBP		14.0		10,2		20.0-120	, 2, ,			

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*Refer to end of report for text of notes.



ERI

1921 Edmonds Drive SE

Renton, WA 98055

Offices:

BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

 Project:
 Texaco #63-232-0037
 Sampled:
 9/11/96

 Project Number:
 31001.14T3
 Received:
 9/11/96

 Project Manager:
 John Meyer
 Reported:
 9/17/96

Notes

Note

- The sample chromatographic pattern does not resemble the fuel standard used for quantitation. A fuel fingerprint is advised.
- The hydrocarbon concentration result in this sample is partially due to an individual peak(s) eluting in the diesel/motor oil carbon range.
- 3 This sample appears to contain volatile gasoline range organics.
- RPD values are not reported at sample concentrations less than 10 times the reporting limit.

North Creek Analytical, Inc.

Matthew Essig, Project Manager

Page 9 of 9

E 11115 Montgomery, Lite B, Spokane, WA 1206-4779 (509) 924-9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-92. FAX 644-2202

TEXACO CHAIN OF CUSTODY REPORT

Work Order #: 6609 CONSULTANT: ERI TURNAROUND REQUEST in Business Days PROJECT MANAGER: Dohn Meyer TEXACO INFORMATION TEXACO PROJECT MANAGER: T. 65, 100 Organic & Inorganic Analyses * ADDRESS: 1921 Edmonds Pr SE TEXACO FACILITY NUMBER: 63-232-2037 Renton, WA 98055 SITE ADDRESS: 670/ Corannool Ava N Air Analyses PHONE: 227-0280 FAX: 227-0225 PROJECT NAME: State Hydrocarbon Methods (please circle): WA OR AK PROJECT NUMBER: Analysis OTHER Specify: SAMPLED BY: Request: Standard Turnaround for Organic & Inorganic Analyses is 10 Day. Portale, * Standard Turnaround for Air Analyses is 3 Days NCA SAMPLE CLIENT SAMPLE SAMPLING MATRIX NUMBER # OF COMMENTS & IDENTIFICATION DATE / TIME (W, S, O) CONTAINERS PRESERVATIVES USE Relon 24 TAT JOD 9/13 24TM JO DATE: 9/11/96 RELINQUISHED BY RECEIVED BYWAA HWLLY DATE -11-96 PRINT NAME: PRINT NAME: JSA RELINQUISHED BY: DATE: RECEIVED BY: DATE: PRINT NAME: PRINT NAME: TIME: Regulto by phone/fox 45AP - use silica cleanup ADDITIONAL REMARKS: PAGE TEXCOC REV2,11/95



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 SPORTIAND = (503) 643 9200 = FAX 644-2202

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI 1921 Edmonds Drive SE Renton, WA 98055 Project: Texaco #63-232-0037

Project Number: 31001
Project Manager: John Meyer

Sampled: 9/12/96 Received: 9/12/96

Reported: 9/12/96

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
EX4-B-1	B609196-01	Soil	9/12/96
AGW6-091296	B609196-02	Water _	9/12/96

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The results in this report apply to the samples analyzed in accordance with the chain of custody document.

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BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

 ERI
 Project:
 Texaco #63-232-0037
 Sampled:
 9/12/96

 1921 Edmonds Drive SE
 Project Number:
 31001
 Received:
 9/12/96

 Renton, WA 98055
 Project Manager:
 John Meyer
 Reported:
 9/23/96

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
			DC0016	26.01			Soil, dry wt.	
EX4-B-1			B60919	<u> 40-01</u>	# 00	ND		
Gasoline Range Hydrocarbons	0960235	9/12/96	9/12/96		5.00	ND	mg/kg (ppm)	
Benzene	II .	11	10		0.0500	ND	•	
Toluene	U	H	11		0.0500	ND	11	
Ethylbenzene	H	н	n		0.0500	ND	n	
Xylenes (total)	n	U	n		0.100	ND	"	
Surrogate: 4-BFB (FID)	11	"	"	50.0-150		94.1	%	
Surrogate: 4-BFB (PID)	"	"	"	49.0-142	•	90.1	"	
AGW6-091296			B6091	96-02			<u>Water</u>	
Gasoline Range Hydrocarbons	0960477	9/20/96	9/20/96		50.0	ND	ug/l (ppb)	
Benzene	"	н	U		0.500	1.64	n	
Toluene	*1	o o	n		0.500	ND	II	
	ır	n	11		0.500	ND	H	
Ethylbenzene	ıı	**	17		1.00	ND	I)	
Xylenes (total)	1111			50.0-150		102	%	
Surrogate: 4-BFB (FID)	st.	"	,,			95.0	"	
Surrogate: 4-BFB (PID)	"	**	••	<i>53.0-136</i>		23.0		

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*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

 ERI
 Project:
 Texaco #63-232-0037
 Sampled:
 9/12/96

 1921 Edmonds Drive SE
 Project Number:
 31001
 Received:
 9/12/96

 Renton, WA 98055
 Project Manager:
 John Meyer
 Reported:
 9/23/96

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) with Silica Gel Clean-up

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
DV4 D 4			B6091	9 6 _01			Soil, dry wt.	
EX4-B-1	0960284	9/12/96	9/13/96	<u> </u>	10.0	27.5	mg/kg (ppm)	
Diesel Range Hydrocarbons Heavy Oil Range Hydrocarbons	U9UU284	9/12/90 H)/ 13/30 If		25.0	183	"	
Surrogate: 2-FBP	"	"	it .	50.0-150		78.7	%	
AGW6-091296			B6091	96-02			Water	
Diesel Range Hydrocarbons	0960345	9/16/96	9/20/96	- -	0.250	ND	mg/l (ppm)	
Heavy Oil Range Hydrocarbons	11	II	11		0.750	ND	"	
Surrogate: 2-FBP	н	11	"	50.0-150		70.4	%	

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*Refer to end of report for text of notes.



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PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco #63-232-0037 Sampled: 9/12/96
1921 Edmonds Drive SE Project Number: 31001 Received: 9/12/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/23/96

Metals by EPA 6010/7000 Series Methods

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
AGW6-091296 Lead	0960353	9/16/96	<u>B6091</u> 9/16/96	1 <u>96-02</u> EPA 7421	0.00200	0.00239	Water mg/l (ppm)	

North Creek Analytical, Inc.

*Refer to end of report for text of notes.



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Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco #63-232-0037 Sampled: 9/12/96
1921 Edmonds Drive SE Project Number: 31001 Received: 9/12/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/23/96

Dissolved Metals by EPA 6010/7000 Series Methods

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
AGW6-091296 Lead	0960481	9/19/96	<u>B6091</u> 9/19/96	96-02 EPA 7421	0.00200	ND	Water mg/l (ppm)	

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ERI Project: Texaco #63-232-0037 Sampled: 9/12/96
1921 Edmonds Drive SE Project Number: 31001 Received: 9/12/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/23/96

Dry Weight Determination

			· · · · · · · · · · · · · · · · · · ·		
Sample Name	Lab ID	Matrix		Result	Units
	·				
EX4-B-I	B609196-01	Soil		90.0	%

North Creek Analytical, Inc.

Matthew Essig, Project Manager

Page 6 of 12



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco #63-232-0037 Sampled: 9/12/96

Project Number: 31001 1921 Edmonds Drive SE Received: 9/12/96 Project Manager: John Meyer Reported: 9/23/96 Renton, WA 98055

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A Quality Control

	Date	Spike	Sample	QC	Repo	rting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units Re	cov. Limits	%	Limit	%	Notes*
Batch: 0960235	Date Prepa	red: 9/12	196							
Blank	0960235-B		20		Soil, dry wt.					
Gasoline Range Hydrocarbons	9/12/96	<u> </u>		ND	mg/kg (ppm)	5.00				
Benzene	9/12/90			ND	" (bbiii)	0.0500				
Toluene	II.			ND	п	0.0500				
Ethylbenzene	"			ND	н	0.0500				
Xylenes (total)	n			ND		0.100				
Surrogate: 4-BFB (FID)	· · · · · · · · · · · · · · · · · · ·	4.00		3.96		50.0-150	99.0			
Surrogate: 4-BFB (PID)	n	4.00		3.88	"	49.0-142	97.0			
Blank Spike	0960235-BS	S1			Soil, dry wt.					
Gasoline Range Hydrocarbons	9/12/96	25.0		22.7	mg/kg (ppm)	37.0-119	90.8			
Surrogate: 4-BFB (FID)	"	4.00		4.08	"	50.0-150	102			
Duplicate	0960235-D1	UP1 B	609175-07		Soil, dry wt.					
Gasoline Range Hydrocarbons	9/12/96		360	434	mg/kg (ppm)			53.0	18.6	
Surrogate: 4-BFB (FID)	11	4.53		4.81	"	50.0-150	106			
Duplicate	0960235-D1	JP2 B	609174-10		Soil, dry wt.					
Gasoline Range Hydrocarbons	9/12/96		ND	ND	mg/kg (ppm)			53.0		
Surrogate: 4-BFB (FID)	n .	4.35		3.74	"	50.0-150	86.0			•
Matrix Spike	0960235-M	<u>S1</u> <u>B</u>	609175-06		Soil, dry wt.					
Benzene	9/12/96	0.540	ND	0.432	mg/kg (ppm)	58.0-114	80.0			
Toluene	19	0.540	ND	0.425	U	59.0-113	78.7			
Ethylbenzene	11	0.540	ND	0.455	u	58.0-118	84.3			
Xylenes (total)	ti	1.62	0.142	1.44	II	61.0-119	80.1			
Surrogate: 4-BFB (PID)	"	4.32		4.71	"	49.0-142	109		· •	·
Matrix Spike Dup	0960235-M	<u>SD1 B</u>	609175-06		Soil, dry wt.					
Benzene	9/12/96	0.540	ND	0.443	mg/kg (ppm)	58.0-114	82.0	17.4	2.47	
Toluene	tř	0.540	ND	0.432	н	59.0-113	80.0	16.5	1.64	
Ethylbenzene	11	0.540	ND	0.467	n	58.0-118	86.5	16.9	2.58	
Xylenes (total)	ti	1.62	0.142	1.48	11	61.0-119	82.6	18.3	3.07	
Surrogate: 4-BFB (PID)	н	4.32		4.01	"	49.0-142	92.8			
Batch: 0960477	<u>Date Prepai</u>	ed: 9/20/	<u>96</u>							
Blank	0960477-BL	K1			Water					

ND

ug/l (ppb)

50.0

North Creek Analytical, Inc.

Gasoline Range Hydrocarbons

9/20/96

*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco #63-232-0037 Sampled: 9/12/96
1921 Edmonds Drive SE Project Number: 31001 Received: 9/12/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/23/96

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A Quality Control

	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
	22/2/55 77	¥74			NY/AAnu					
Blank (continued)	0960477-BL	<u>.KI</u>		NITS	Water	0.500				
Benzene	9/20/96			ND	ug/l (ppb)	0.500				
Toluene				ND	 U					
Ethylbenzene	*#			ND	" "	0.500				
Xylenes (total)				ND	",	1.00				
Surrogate: 4-BFB (FID)	#	16.0		15.7		50.0-150	<i>98.1</i>			
Surrogate: 4-BFB (PID)	"	16.0		14.4	"	53.0-136	90.0			
Blank Spike	0960477-BS	1			Water					
Gasoline Range Hydrocarbons	9/20/96	500		502	ug/l (ppb)	63.0-127	100			
Surrogate: 4-BFB (FID)	"	16.0		20.8	"	50.0-150	130			
<u>Duplicate</u>	<u>0960477-DU</u>	<u> P1 B</u>	609196-02		<u>Water</u>					
Gasoline Range Hydrocarbons	9/20/96		ND	ND	ug/l (ppb)			45.0		
Surrogate: 4-BFB (FID)	,	16.0		10.9	"	50.0-150	68.1			
Matrix Spike	0960477-MS	81 R	609196-02		Wate <u>r</u>					
Benzene	9/20/96	10.0	1.64	9.80	ug/l (ppb)	62.0-126	81.6			
Toluene	"	10.0	ND	8.86	"	72.0-120	88.6			
Ethylbenzene	n .	10.0	ND	9.01	II.	69.0-129	90.1			
Xylenes (total)	II.	30.0	ND	29.1	II .	73.0-126	97.0			
Surrogate: 4-BFB (PID)	"	16.0		16.5	"	53.0-136	103			
74 / C 0 0 0	00/0488 75	יי ורוני	(00106.03		Water					
Matrix Spike Dup	0960477-MS		609196-02	10.2	Water	62.0.126	85.6	13.5	4.78	
Benzene	9/20/96	10.0	1.64	10.2	ug/l (ppb)					
Toluene	tr 	10.0	ND	9.91		72.0-120	99.1	8.70	11.2	
Ethylbenzene	17	10.0	ND	9.68		69.0-129	96.8	13.6	7.17	
Xylenes (total)	"	30.0	ND	32.1	"	73.0-126	107	16.3	9.80	
Surrogate: 4-BFB (PID)	"	16.0		16.6	"	53.0-136	104			

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*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Sampled: 9/12/96 Project: Texaco #63-232-0037 ERI Received: 9/12/96 Project Number: 31001 1921 Edmonds Drive SE Reported: 9/23/96 Project Manager: John Meyer Renton, WA 98055

Diesel Hydrocarbons (€12-€24) and Heavy Oil (€24-€40) by WTPH-D (extended) with Silica Gel Clean-up Quality Control

	Date	Spike	Sample	QC	Repor	ting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units Re	cov. Limits	%	Limit	%	Notes*
					-					
Batch: 0960284	Date Prepar	red: 9/12/9	<u>96</u>							
Blank	<u>0960284-BI</u>	<u>K1</u>			Soil, dry wt.					
Diesel Range Hydrocarbons	9/13/96			ND	mg/kg (ppm)	10.0				
Heavy Oil Range Hydrocarbons	n .			ND		25.0				
Surrogate: 2-FBP	"	11.5		8.59	"	50.0-150	74.7			
Blank Spike	0960284-BS	<u> </u>			Soil, dry wt.					
Diesel Range Hydrocarbons	9/13/96	68.1		63.3	mg/kg (ppm)	66.0-131	93.0			
Surrogate: 2-FBP	"	11.5		8.38	"	50.0-150	72.9			
Duplicate	0960284-D1	<u>JP1 B</u>	60919 <u>6-01</u>		Soil, dry wt.					1
Diesel Range Hydrocarbons	9/13/96		27.5	25.2	mg/kg (ppm)			48.0	8.73	
Surrogate: 2-FBP	"	12.7		9.45	"	50.0-150	74.4			
Batch: 0960345	Date Prepa	red: 9/16/	<u>96</u>							
Blank	0960345-BI	LK1			Water					
Diesel Range Hydrocarbons	9/20/96			ND	mg/l (ppm)	0.250				
Heavy Oil Range Hydrocarbons	10			ND		0.750				
Surrogate: 2-FBP	n .	0.344		0.176	"	50.0-150	51.2			
Blank Spike	09603 <u>45-B</u> 5	<u>81</u>			<u>Water</u>					<u>2</u>
Diesel Range Hydrocarbons	9/20/96	2.04		1.18	mg/l (ppm)	54.0-121	57.8			
Surrogate: 2-FBP	"	0.344		0.141	H	50.0-150	41.0			
Dup <u>licate</u>	0960345-D1	<u>UP1 B</u>	609196-02		Water					
Diesel Range Hydrocarbons	9/20/96		ND	ND	mg/l (ppm)			44.0		1
Surrogate: 2-FBP	"	0.648		0.421	"	50.0-150	65.0			

North Creek Analytical, Inc.

*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992

SPOKANE **■** (509) 924-9200 **■** FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI 1921 Edmonds Drive SE Renton, WA 98055

Project: Texaco #63-232-0037

環境實施

"美国的""沙"。

Sampled: 9/12/96 Received: 9/12/96

Project Number: 31001 Project Manager: John Meyer

Reported: 9/23/96

Metals by EPA 6010/7000 Series Methods Quality Control

	Date	Spike	Sample	QC	F	Reporting Limit		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	<u>%</u>	Notes*
Batch: 0960353 Blank Lead	Date Prepar 0960353-BL 9/16/96		<u>96</u>	ND	Water mg/l (pp	m) 0.00200				-
Blank Spike Lead	<u>0960353-BS</u> 9/16/96	<u>1</u> 0.0250		0.0292	Water mg/l (pp	m) 70.0-130	117			
<u>Duplicate</u> Lead	0960353-DU 9/16/96	<u>P1 B</u>	0.00295	0.00281	Water mg/l (pp	m)		20.0	4.86	
Matrix Spike Lead	<u>0960353-MS</u> 9/16/96	<u>B1</u> <u>B</u> 0.0250	609219-01 0.00295	0.0304	Water mg/l (pp	m) 75.0-125	110			
Matrix Spike Dup Lead	0960353-MS 9/16/96	<u>SD1 B</u> 0.0250	609219-01 0.00295	0.0303	Water mg/l (pp	m) 75.0-125	109	20.0	0.913	

North Creek Analytical, Inc.

*Refer to end of report for text of notes.



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PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

 ERI
 Project:
 Texaco #63-232-0037
 Sampled:
 9/12/96

 1921 Edmonds Drive SE
 Project Number:
 31001
 Received:
 9/12/96

 Renton, WA 98055
 Project Manager:
 John Meyer
 Reported:
 9/23/96

Dissolved Metals by EPA 6010/7000 Series Methods
Quality Control

	Date	Spike	Sample	· QC	F	Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%_	Limit	%	Notes*
Batch: 0960481 Blank Lead	<u>Date Prepa</u> <u>0960481-BI</u> 9/19/96		<u>96</u>	ND	Water mg/l (pp	m) 0.00200				
Blank Spike Lead	<u>0960481-B5</u> 9/19/96	6 <u>1</u> 0.0250	•	0.0245	Water mg/l (pp	m) 70.0-130	98.0			
<u>Duplicate</u> Lead	<u>.0960481-D)</u> 9/19/96	UP1 B	0.00324	0.00291	<u>Water</u> mg/l (pp	m)		20.0	10.7	
Matrix Spike Lead	<u>0960481-M</u> 9/19/96	<u>S1</u> <u>B</u>	0.00324	0.0338	<u>Water</u> mg/l (pp	m) 75.0-125	122			
Matrix Spike Dup Lead	<u>0960481-M</u> 9/19/96	SD1 B	609 230-01 0.00324	0.0325	<u>Water</u> mg/l (pp	m) 75.0-125	117	20.0	4.18	

North Creek Analytical, Inc.

*Refer to end of report for text of notes.



ERI

Renton, WA 98055

Offices:

BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Project: Texaco #63-232-0037 Project Number: 31001 1921 Edmonds Drive SE

Project Manager: John Meyer

9/12/96 Sampled: Received: 9/12/96

9/23/96 Reported:

Notes

Note

RPD values are not reported at sample concentrations less than 10 times the reporting limit.

The surrogate recovery for sample is outside of NCA established control limits. 2

North Creek Analytical, Inc.

Matthew Essig, Project Manager

Page 12 of 12



18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992 East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

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TEXACO CHAIN OF CUSTODY REPORT Work Order #:

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	ohn Weder		TEXAC	O PROJ	ECT MA	NAGER:	7:	60	:/ <u>\</u> ~/\			Organic & Inorgan	nic Analyses *		
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<i>VV</i> /e	yev] ,	&/_	4	*/\&\			, У	/	* Stand	iard Turnaround for .	Air Analyses is 3 Days		
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NUMBER Of GIRLS	IDENTIFICATION 1	DATE/TIME	1 ~	/ ~ /	$\frac{2}{}$	~/~	\alpha \a	\overline{Y}			(W, S, O)	CONTAINERS	PRESERVATIVES USED		
B609196-01	•	7/12/96	X	<u> </u>	Δ						_ 5,		KUSH		
-62	2AGW6-091296	<i>'</i>	X		$X \! \perp$	<u> </u>	X	$\geq \downarrow$			W	7	112-7		
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7110 38th Drive SE Lacey, Washington 98503

Mobile Environmental Laboratories Environmental Sampling Services Telephone:

360-459-4670

Fax:

360-459-3432

September 24, 1996

John Meyer ERI Environmental Resolutions Inc. 1921 Edmonds Drive SE Renton, WA 98055

Dear Mr. Meyer:

Please find enclosed the data report for analyses of soil samples conducted off-site September 17 and 18, 1996, for the Greenwood Project, Project No. 31001, in Lynnwood, Washington. The soil samples were analyzed for Gasoline by WTPH-G, BTEX by EPA Method 8020, and Diesel and Oil by WTPH-D/D Extended. One soil sample was analyzed for Hydrocarbon Identification by WTPH-HCID.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. The invoice for this work has been sent to Theresa Geijer at Texaco Environmental Health and Safety in Lynnwood, Washington, for payment. A copy is enclosed for your files.

TEG Northwest appreciates the opportunity to have provided analytical services to Texaca Environmental Services and ERI for this project. It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

President

cc:

letter and invoice sent to:

Michael a Korosa

Theresa Geijer, Texaco Environmental Health & Safety 3400 188th St. SW, #630, Lynnwood, WA 98037

GREENWOOD PROJECT
Lynnwood, Washington
Texaco Environmental Services/ERI
Project No. 31001

Gasoline (WTPH-G) & BTEX (EPA 8020) Analyses for Soils

Sample Number	Date Analyzed	Benzene mg/kg	Toluene	Eth Benz	Xylene mg/kg	Gasoline	Recovery (%)
Meth. Blank	09/17/96	nd	nd	nđ	nd	nd	90
EX5-S-3	09/17/96	nd	nd	nd	nd	12	. 89
T3-2-2	09/17/96	1.94	5.22	9.98	25.5	2200	103
T3-1-3	09/17/96	5.16	7.7	14.9	40	3770	92
T1-1-3	09/17/96	nd	nd	nd	nd	nd	104
T1-1-3 Dup.	09/17/96	nd	nd	nd	nd	nd	92
EX5-E-3	09/17/96	nd	nd	nd	nd	37	97
EX5-N-3	09/17/96	0.11	nd	0.36	1.42	16	94
EX5-W-3	09/17/96	nd	nd	nd	nd	35	88
T2-1-3	09/17/96	nd	nd	nd	nd	nd	101
T2-1-3 Dup.	09/17/96	nd	nd	nd	nd	nd	92
EX5-NE-3	09/17/96	0.98	3.28	7.64	50	890	104
SP1-917	09/17/96	nd	nd	nd	nd	29	98
SP2-917	09/17/96	0.25	0.27	1.34	5.83	380	101
Detection Lin	mits	0.05	0.05	0.05	0.05	10	

[&]quot;nd" Indicates not detected at the listed detection limits.

[&]quot;int" Indicates that interferences prevent determination.

GREENWOOD PROJECT

Lynnwood, Washington
Texaco Environmental Services/ERI
Project No. 31001

Diesel and Oil (WTPH-D/D Extended) Analyses for Soils

=====	=====	=====	=====	=====
Sample	Date	Recovery	Diesel	Oil
Number	Analyzed	%	mg/kg	mg/kg
Meth. Blank	09/17/96	87	nd	nd
EX5-S-3	09/17/96	96	24	1130
T3-2-2	09/17/96	86	nd	nd
T3-1-3	09/17/96	88	nd	nd
T1-1-3	09/17/96	110	nd	nd
T1-1-3 Dup.	09/17/96	113	nd	nd
EX5-E-3	09/17/96	116	15	1610
EX5-N-3	09/17/96	79	25*	nd
EX5-W-3	09/17/96	85	18	1680
T2-1-3	09/17/96	105	nd	nd
T2-1-3 Dup.	09/17/96	90	nd	nd
EX5-NE-3	09/17/96	82	nd	nd
SP1-917	09/17/96	int	36	1600
SP2-917	09/17/96	95	nd	nd
Detection Lir	nits		20	40

[&]quot;nd" Indicates not detected at the listed detection limits.

[&]quot;int" Indicates that interferences prevent determination.

^{----- ----- ------ -----}

^{***} This comes from a single peak which elutes between C18 and C20

GREENWOOD PROJECT
Lynnwood, Washington
Texaco Environmental Services/ERI
Project No. 31001

Gasoline (WTPH-G) & BTEX (EPA 8020) Analyses for Soils

Sample Number	Date Analyzed	Benzene mg/kg	Toluene mg/kg	Eth Benz mg/kg	Xylene mg/kg	Gasoline mg/kg	Recovery (%)
Meth. Blank	09/18/96	nd	nd	nd	nd	nd	99
EX6-2-W	09/18/96	nd	nd	nd	nd	36	108
T3-3-3	09/18/96	nd	nd	nd	nd	nd	103
EX5-NW-3	09/18/96	nd	nd	nd	nd	nd	96
EX5-NE1-3	09/18/96	nd	nd	nd	nd	nd	89
EX5-NE1-3 Du	09/18/96	nd	nd	nd	nd	nd	86
EX5-NE2-3	09/18/96	nd	nd	nd	nd	nd	114
EX5-SE1-3	09/18/96	nd	nd	nd	0.20	nd	92
EX5-NW2-3	09/18/96	nd	nd	nd	0.14	nd	100
EX5-SE2-3	09/18/96	nd	nd	nd	nd	nd	98.
EX5-SE2-3 Dup	09/18/96	nd	nd	nd	nd	nd	97
EX5-E2-3	09/18/96	nd	nd	nd	0.07	27	101
Detection Limits		0.05	0.05	0.05	0.05	10	

[&]quot;nd" Indicates not detected at the listed detection limits.

[&]quot;int" Indicates that interferences prevent determination.

GREENWOOD PROJECT
Lynnwood, Washington
Texaco Environmental Services/ERI
Project No. 31001

Diesel and Oil (WTPH-D/D-Extended) Analyses for Soils

======	=====	=====	=====	=====	=====
Sample		Date	Recovery	Diesel	Heavy Oil
Number			%	mg/kg	mg/kg
=======	======	=====	=====	=====	=====
Meth. Blank		09/18/96	94	nd	nd
EX6-2-W		09/18/96	116	nd	1020
EX6-2-W **		09/18/96	94	nd	1240
T3-3-3		09/18/96	110	nd	nd
T3-3-3 Dup		09/18/96	107	nd	nd
EX5-NW-3		09/18/96	94	nd	nd
EX5-NE1-3		09/18/96	94	nd	nd
EX5-NE2-3		09/18/96	102	nd	nd
EX5-SE1-3		09/18/96	93	nd	nd
EX5-NW2-3		09/18/96	100	nd	nd
EX5-SE2-3		09/18/96	104	nd	nd
EX5-SE2-3 Dup		09/18/96	105	nd	nd
EX5-E2-3		09/18/96	101	nd	nd
MDL				20	40

[&]quot;nd" Indicates not detected at the listed detection limit.

[&]quot;int" Indicates that interference peaks prevent determination.

^{**} Sample preparation included 2x Silica Gel cleanup.

GREENWOOD PROJECT Lynnwood, Washington Texaco Environmental Services/ERI Project No. 31001

Hydrocarbon Identification by WTPH-HCID for Soils

======	=====	=====	=====	=====	=====	=====
Sample		Date	Recovery	Gasoline	Diesel	Heavy Oil
Number			%	mg/kg	mg/kg	mg/kg
=======	=====	=====	=====	=====	=====	=====
Meth. Blank		09/18/96	94	nd	nd	nd
Backfill		09/18/96	107	nd	nd	nd
Method Detection				20	50	100
"nd" Indicates no "D" Indicates de						

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

TPH-Gasoline, TPH-Diesel (Gasoline and/or Diesel, Modified EPA 8015, WTPH-G and WTPH-D)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. A duplicate sample is run at a rate of 1 per 10 samples (or a matrix spike sample is prepared and analyzed). At least 1 method blank is run per 10 samples analyzed.

Purgeable Volatile Aromatics (BTEX, EPA 602/8020)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

TPH-Hydrocarbon Identification (WTPH-HCID)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. A duplicate sample is run at a rate of 1 per 10 samples (or a matrix spike sample is prepared and analyzed). At least 1 method blank is run per 10 samples analyzed.

teg

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

CLIENT: TOLONG 63-232-0037									_	DAT	Ē: _	2	//8	1/2	4		PA	GE		 DF							
ADDRESS: 8	701	Gra	n Wood	d A	6 N,	4	, 	1,1	4	W4	2			_	PROJECT NAME: TEXALD GRAMMES) LOCATION: 8701 Grammes Ave												
ADDRESS: 87	<u> </u>	/2:	EL/ 2 <u>7-0</u> 2	٥٧)	FA	ν:_ <u>-</u>	7 <u>-</u> 77/-	77	es <u> </u>	/22	ER . 7_ •	/ <u> </u>	25	_	LO	CATI	ON:		87	>/	6/	رعت	لمحصيا	A	خ		
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Sample Number			Sample Type				. /	/ /	//	/ /。		Δ	/3>	/ /	//			/ /			//		FIELD NO		·	Total Number of Containers	Laboratory Note Number
EX6-2-W			5	54	s Jor					X		X															
73.3.3			1		,					X		N															
EX5-NW-3				ľ	1	_				$\sqrt{\chi}$	1	X		7						1					•		
EX5-NE2-3					/				1	X		X	,			-									•		
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CHAIN OF CUSTODY REPORT

Work Order #

REPORT TO: ER)	CARLETT	COSTO	ing and area that compared to the	White Part of the American	Alexandra and the	والمناسعة والمنافرة ويراد والمناولة	0.288.488844 B. W.		rk Urder #				
			INVOICE TO	o: Texa	co Re	4. 4	Manket	+	TURN	AROUND REO	UEST in Business Da	nue *	
ATTENTION: John Meyer	<u> </u>										organic Analyses	7.7	
ADDRESS: 1921 Edmands	Dr 5		ADDRESS:	3400	180 tr	27	er 3W	/	10 7	5 4	3 2	SAme 1850	
Renton, WA	98055						9803		Standard Fuels & Hydrocarbon Analyses				
PHONE: 227-0280			P.O. NUMBER		, — I.	NCA Q				5 3-4		ne	
PROJECT NAME: (STEEN Was	<u> </u>	·	Analysis	12.00	V_\()/	7	//			Standard	الــالــاڭ		
PROJECT NUMBER: 3/00/	 		Request:	(1)	X /	/ /			OTHER	Specify:			
SAMPLED BY: DAY May] '		Y /	//	///	/ /	• Turnaround		standard may incur Russ	Charges.	
CLIENT SAMPLE / IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID	//	(YY XX)	'//	/ /			MATRIX	# OF			
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6. EX5-N-3	/			X						/			
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10. 5P1-917 3P2-917	V					- 							
SP2-917 RELINQUISHED BY (Signature):	- V		DATI	X	RECEIVED	BY (Signature):	S - K	0/1	-11	/		9170	
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BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco Greenwood Sampled: 9/25/96
1921 Edmonds Drive SE Project Number: 31001 Received: 9/25/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/27/96

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S1-2	B609430-01	Soil	9/25/96
S2-2	B609430-02	Soil .	9/25/96
S3-1	B609430-03	Soil	9/25/96

North Creek Analytical, Inc.

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.

Matthew Essig, Project Manager

Page 1 of 6



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI 1921 Edmonds Drive SE Project Manager: John Meyer Renton, WA 98055

Project: Texaco Greenwood Project Number: 31001

Sampled: 9/25/96 Received: 9/25/96

Reported: 9/27/96

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A

					D			 -
	Batch	Date	Date	Surrogate	Reporting	D 1:	T In its	Notes*
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes
			70 COO 41	30.01			Soil, dry wt.	
<u>S1-2</u>			B6094	<u>30-01</u>	c 00	NID		
Gasoline Range Hydrocarbons	0960651	9/25/96	9/26/96		5.00	ND	mg/kg (ppm) "	
Benzene	ti .	U	†I		0.0500	ND		
Toluene	**	ti	*1		0.0500	ND		
Ethylbenzene	*1	н	11		0.0500	ND	D.	
Xylenes (total)	ir	11	D		0.100	ND	n 	
Surrogate: 4-BFB (FID)	п	n	n	50.0-150		90.9	%	
Surrogate: 4-BFB (PID)	"	"	"	49.0-142		90.1	"	
<u>S2-2</u>			<u>B6094</u>	<u>30-02</u>			Soil, dry wt.	
Gasoline Range Hydrocarbons	0960651	9/25/96	9/26/96		5.00	ND	mg/kg (ppm)	
Benzene	11	11 .	п		0.0500	ND	"	
Toluene	II	H	11		0.0500	ND		
Ethylbenzene	n	11	П		0.0500	ND	U	
Xylenes (total)	II.	II .	10		0.100	ND_	· · · · · · · · · · · · · · · · · · ·	
Surrogate: 4-BFB (FID)	"	***	"	50.0-150		96.0	%	
Surrogate: 4-BFB (PID)	**	"	"	49.0-142		92.0	"	
			B6094	20 02			Soil, dry wt.	
<u>\$3-1</u>	0000051	0/05/06	9/26/96	<u>30-03</u>	5.00	ND	mg/kg (ppm)	
Gasoline Range Hydrocarbons	0960651	9/25/96	9/20/90		0.0500	ND	" G " G (PP)	
Benzene			11			ND	II .	
Toluene	п	н			0.0500	=	II .	
Ethylbenzene	II .	11	11		0.0500	ND		
Xylenes (total)		11			0.100	ND		
Surrogate: 4-BFB (FID)	"	11	п	50.0-150		95.0	%	
Surrogate: 4-BFB (PID)	"	"	"	49.0-142		91.0	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco Greenwood Sampled: 9/25/96
1921 Edmonds Drive SE Project Number: 31001 Received: 9/25/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/27/96

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) with Silica Gel Clean-up

-	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
01.0			B6094	30 01			Soil, dry wt.	
<u>S1-2</u>	00/0/27	0/05/06	9/27/96	<u>30-01</u>	110	293	mg/kg (ppm)	
Diesel Range Hydrocarbons	0960627	9/25/96	9/2//90		275	1510	" (PP)	
Heavy Oil Range Hydrocarbons								
Surrogate: 2-FBP	"	"	"	50.0-150		<i>85.4</i>	%	
<u>S2-2</u>		•	B6094	30-02			Soil, dry wt.	
Diesel Range Hydrocarbons	0960627	9/25/96	9/27/96		30.0	115	mg/kg (ppm)	
Heavy Oil Range Hydrocarbons	1)	II.	u		75.0	716	11	
Surrogate: 2-FBP	11	"	"	50.0-150		78.8	%	
<u>S3-1</u>			B6094	30-03			Soil, dry wt.	
Diesel Range Hydrocarbons	0960627	9/25/96	9/27/96		110	169	mg/kg (ppm)	
Heavy Oil Range Hydrocarbons	"	II.	"		275	1040		
Surrogate: 2-FBP	"	"	"	50.0-150		83.5	%	

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*Refer to end of report for text of notes.



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Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI Project: Texaco Greenwood Sampled: 9/25/96
1921 Edmonds Drive SE Project Number: 31001 Received: 9/25/96
Renton, WA 98055 Project Manager: John Meyer Reported: 9/27/96

Dry Weight Determination

I sh ID	Mateix	Result	Units
Lao ID	Matrix		 -
B609430-01	Soil	88.3	%
B609430-02	Soil	. 83.9	%
D600430-03	Soil	90.4	%
	B609430-02	B609430-01 Soil B609430-02 Soil	B609430-01 Soil 88.3

North Creek Analytical, Inc.

Matthew Essig, Project Manager

Page 4 of 6



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Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Project: Texaco Greenwood ERI Project Number: 31001 1921 Edmonds Drive SE Project Manager: John Meyer Renton, WA 98055

Received: 9/25/96 9/27/96 Reported:

Sampled:

9/25/96

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A Quality Control

RPD Reporting Limit Recov. RPD OC Date Spike Sample % Notes* Limit Recov. Limits % Result Result Units Analyzed Level Analyte Date Prepared: 9/25/96 Batch: 0960651 Soil, dry wt. 0960651-BLK1 Blank 5.00 ND mg/kg (ppm) 9/25/96 Gasoline Range Hydrocarbons 0.0500 ND Benzene ND 0.0500 Toluene 0.0500 ND Ethylbenzene 0.100 ND Xylenes (total) 108 50.0-150 4.32 4.00 Surrogate: 4-BFB (FID) 49.0-142 105 4.20 Surrogate: 4-BFB (PID) 4.00 Soil, dry wt. 0960651-BS1 Blank Spike 37.0-119 112 27.9 mg/kg (ppm) 25.0 Gasoline Range Hydrocarbons 9/25/96 50.0-150 116 4.64 Surrogate: 4-BFB (FID) 4.00 Soil, dry wt. 0960651-DUP1 B609436-01 Duplicate ND mg/kg (ppm) 53.0 ND Gasoline Range Hydrocarbons 9/25/96 50.0-150 100 4.38 4.38 Surrogate: 4-BFB (FID) 0960651-DUP2 B609430-01 Soil, dry wt. Duplicate mg/kg (ppm) 53.0 ND ND Gasoline Range Hydrocarbons 9/26/96 4.08 50.0-150 90.1 4.53 Surrogate: 4-BFB (FID) Soil, dry wt. 0960651-MS1 B609436-01 Matrix Spike 58.0-114 88.3 ND 0.483 mg/kg (ppm) 9/26/96 0.547 Benzene 59.0-113 92.3 0.547 ND 0.505 Toluene 92.9 0.547 ND 0.508 58.0-118 Ethylbenzene 61.0-119 94.5 1.64 ND 1.55 Xylenes (total) 49.0-142 97.9 4.38 4.29 Surrogate: 4-BFB (PID) 0960651-MSD1 B609436-01 Soil, dry wt. Matrix Spike Dup 3.01 0.498 mg/kg (ppm) 58.0-114 91.0 17.4 9/25/96 0.547 ND Benzene 94.0 16.5 1.83 0.547 ND 0.514 59.0-113 Toluene 16.9 0.751 0.512 58.0-118 93.6 ND 0.547 Ethylbenzene 61.0-119 96.3 18.3 1.89 1.64 ND 1.58 Xylenes (total) 92.9 4.07 49.0-142

4.38

North Creek Analytical, Inc.

Surrogate: 4-BFB (PID)

*Refer to end of report for text of notes.



BOTHELL = (206) 481-9200 = FAX 485-2992

SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

ERI	Project:	Texaco Greenwood	Sampled:	9/25/96
1921 Edmonds Drive SE	Project Number:	31001	Received:	9/25/96
Renton, WA 98055	Project Manager:		Reported:	9/27/96
INCIDIAL WAS SOUDS	110,00011111111111111111111111111111111			

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) with Silica Gel Clean-up Quality Control

	Date	Spike	Sample	QC	R	Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	<u>%</u> N	Votes*
Batch: 0960627	Date Prepa	red: 9/25/	96							
Blank	0960627-B				Soil, dry	wt.				
Diesel Range Hydrocarbons	9/26/96			ND	mg/kg (p					
Heavy Oil Range Hydrocarbons	н			ND	11	25.0				
Surrogate: 2-FBP	ii .	11.5		8.61	"	50.0-150	74.9			
Blank Spike	0960627-BS	S1			Soil, dry	wt.				
Diesel Range Hydrocarbons	9/26/96	68.1		53.4	mg/kg (p	pm) 66.0-131	78.4			
Surrogate: 2-FBP	"	11.5		9.32	"	50.0-150	81.0			
Duplicate	0960627-D	UP1 B	609430-01		Soil, dry	wt.				
Diesel Range Hydrocarbons	9/27/96		293	297	mg/kg (p	pm)		48.0	1.36	
Surrogate: 2-FBP	"	13.0		9.64	"	50.0-150	74.2			

North Creek Analytical, Inc.

*Refer to end of report for text of notes.



18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992 East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

4

TEXACO CHAIN OF CUSTODY REPORT Work Order #: TURNAROUND REQUEST in Business Days CONSULTANT: **TEXACO INFORMATION** TEXACO PROJECT MANAGER: 7. 69/) Organic & Inorganic Analyses * PROJECT MANAGER: TEXACO FACILITY NUMBER: 63-232-0037 SITE ADDRESS: 470/ Grasnuss Auto A Air Analyses * PHONE: 227-0280 FAX: 227-0225 State Hydrocarbon Methods (please circle): PROJECT NUMBER: OTHER Specify: Analysis * Standard Turnaround for Organic & Inorganic Analyses is 10 Days SAMPLED BY: Request: IPH:HOD * Standard Turnaround for Air Analyses is 3 Days NCA SAMPLE SAMPLING MATRIX # OF COMMENTS & NUMBER IDENTIFICATION DATE / TIME (W, S, O) CONTAINERS PRESERVATIVES USED RECEIVED BY: R. B. Kelley DATE:9/25/96 RELINOUISHED BY: DATE: RECEIVED BY: DATE: PRINT NAME: TIME: PRINT NAME: FIRM: TIME: ADDITIONAL REMARKS: PAGE TEXCOCREV2.11/95



October 15, 1996

Service Request No.: B9600722

Theresa Geijer
Texaco Environmental Services
3400 188th Street SW, Suite 630
Lynnwood, WA 98037

Re: Texaco Greenwood Project

Dear Theresa:

Attached are the results of the sample(s) submitted to our laboratory on October 4, 1996. Preliminary results were transmitted via facsimile on October 5 and 10, 1996. For your reference, these analyses have been assigned our service request number B9600722.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results only apply to samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Colin B. Elliott

Laboratory Manager

lis Ellist

cc: John Meyer - Environmental Resolutions, Inc.

CBE/bdr

Client: Project:

Environmental Resolutions Inc.

Texaco Greenwood

Sample Matrix: Soil

Date Received:

10/4/96 B9600722

Service Request No.:

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for sample(s) designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses.

All EPA recommended holding times have been met for analyses in this sample delivery group.

The following difficulties were experienced during analysis of this batch: The analysis for total lead for sample SP2-100496 was originally performed on 10/7/96. Since the original result was significantly higher than the other samples submitted with this set, it was decided to reanalyze this sample. The reanalysis was performed in duplicate on 10/11/96 with the reanalysis showing a response of 89 ppm and 33 ppm for the sample and its duplicate, respectively. It is obvious that the sample had not been well mixed prior to the original analysis on 10/7/96 and that even after being well mixed on 10/11/96 that the duplicate analyses show a Relative Percent Difference of 92%. The result of 89 ppm is being reported since it is the opinion of Columbia Analytical Services that it best represents the overall concentration of lead in the sample.

Approved by	lik.	Ellet	Date	10/15/56
Approved by				

Analytical Report

Client:

Environmental Resolutions, Inc.

Project:

Texaco Greenwood

Sample Matrix: Soil

Service Request: B9600722 Date Collected: 10/4/96 Date Received: 10/4/96

Date Extracted: 10/7/96 Date Analyzed: 10/7/96

Total Lead EPA Method 7420 Units: mg/kg (ppm) Dry Weight Basis

Sample Name	Lab Code	MRL	Result
SP1-100396	B9600722-03	10	32
SP2-100496	B9600722-04	10	89 (a)
SP3-100496	B9600722-05	10	26
Method Blank	B9600722-SB	10	ND

Result is from a reanalysis performed 10/11/96.

lin Ellet

Approved By:

(a)

1AMRI/102594 00722ICP.DJ1 - Sample 10/14/96 Date: 10/15/86

Analytical Report

Client:

5A/102194

Environmental Resolutions, Inc.

Project:

Texaco Greenwood

Sample Matrix:

Soil

Service Request: B9600722

Date Collected: 10/4/96
Date Received: 10/4/96

Date Extracted: 10/4/96
Date Analyzed: 10/4-5/96

BTEX and Total Petroleum Hydrocarbons as Gasoline
EPA Methods 5030A/8020 and Washington DOE Method WTPH-G
Units: mg/Kg (ppm)
Dry Weight Basis

	Analyte: Method Reporting Limit:	Benzene 0.05	Toluene 0.1	Ethylbenzene 0.1	Total Xylenes 0.1	TPH as Gasoline 5
Sample Name	Lab Code					
EXNE-4	B9600722-01	ND	ND	ND	ND	ND
EXNW-4	B9600722-02	ND	ND	ND	ND	ND
SP1-100396	B9600722-03	ND	ND	ND	ND	ND
SP2-100496	B9600722-04	ND	ND	ND	ND	ND
SP3-100496	B9600 722- 05	ND	ND	ND	ND	ND
Method Blank	B9600722-SB	ND	ND	ND	ND	ND

Approved By: Let Ellioty te: 10/15/52

age No.:

Analytical Report

Client:

Environmental Resolutions, Inc.

Project:

Texaco Greenwood

Sample Matrix:

Soil

Service Request: B9600722

Date Collected: 10/3-4/96

Date Received: 10/4/96
Date Extracted: 10/4/96

Date Analyzed: 10/4-5/96

Total Petroleum Hydrocarbons as Diesel and Oil Washington DOE Method WTPH-D Units: mg/Kg (ppm) Dry Weight Basis

	Analyte: Method Reporting Limit:	Diesel 25	OiI * 100
Sample Name	Lab Code		
EXNE-4	B9600722-01	ND	ND
EXNW-4	B9600722-02	ND	ND
SP1-100396	B9600722-03(a)	440 (b)	3800 (b)
SP2-100496	B9600722-04	48 (b)	116 (b)
SP3-100496	B9600722-05(a)	110 (b)	490 (b)
Method Blank	B9600722-SB	ND	ND

	And the state of the second state of the secon
*	Quantified using 30-weight motor oil as a standard.
(a)	Result is from the analysis of a diluted sample, performed on 10/4/96. Dilution factor: 10
(b)	Quantified as diesel/oil. The sample contained components that eluted in the diesel/oil range, but the
	chromatogram did not match the typical diesel/oil fingerprint.

Approved By:	in-Ellests	Date: 10/15-196	
Thurna man.			-

2A/102094

00722PHC.CE2 - TPHs 10/10/96

Analytical Report

Client:

Environmental Resolutions, Inc.

Project:

Texaco Greenwood

Sample Matrix:

Soil

Service Request: B9600722

Date Received: 10/4/96

Date Extracted: 10/4/96
Date Analyzed: 10/5/96

Total Petroleum Hydrocarbons as Diesel and Oil with Silica Gel Clean-up

Washington DOE Method WTPH-D

Units: mg/Kg (ppm)

Dry Weight Basis

Oil* Diesel Analyte: 25 100 Method Reporting Limit: Lab Code Sample Name 2030 B9600722-03 296 (a) SP1-100396 ND 26 (a) B9600722-04 SP2-100496 310 B9600722-05 71 (a) SP3-100496

Quantified using 30-weight motor oil as a standard.

(a) Quantified as diesel. The sample contained components that eluted in the diesel range, but the chromatogram did not match the typical diesel fingerprint.

Approved By:	loh. Ellott	Date: _	10/15/96
-FF			

2A/102094 00722PHC.CE2 - TPHs with silica 10/10/96

QA/QC Report

Client:

Environmental Resolutions, Inc.

Project:

Texaco Greenwood

Sample Matrix: Soil

Service Request: B9600722
Date Collected: 10/4/96
Date Received: 10/4/96
Date Extracted: 10/4/96

Date Analyzed: 10/4-5/96

Surrogate Recovery Summary BTEX and Total Petroleum Hydrocarbons as Gasoline EPA Methods 5030A/8020 and Washington DOE Method WTPH-G

Sample Name	Lab Code	Percent Recovery 4-BFB (PID - BTEX)	Percent Recovery 4-BFB (FID - GAS)
EXNE-4	B9600722-01	89	91
EXNW-4	B9600722-02	86	84
SP1-100396	B9600722-03	86	87
SP2-100496	B9600 722-0 4	91	94
SP3-100496	B9600722-05	90	94
Method Blank	B9600722-SB	81	83

CAS Acceptance Limits:

69-112

69-111

A	la Ellett	Date: 10/15/95
Approved By:		Date,

SUR2/111594

QA/QC Report

Client:
Project:
Sample Matrix: Soil

Date Collected: 10/3-4/96
Date Received: 10/4/96
Date Extracted: 10/4/96
Date Analyzed: 10/4/96

Surrogate Recovery Summary
Total Petroleum Hydrocarbons as Diesel and Oil
Washington DOE Method WTPH-D

Sample Name	Lab Code	Percent Recovery p-Terphenyl					
EXNE-4	B9600722-01	98					
EXNW-4	B9600722-02	92					
SP1-100396	B9600722-03	80					
SP2-100496	B9600722-04	91					
SP3-100496	B9600722-05	80					
Method Blank	B9600722-SB	99					

CAS Acceptance Limits: 74-117

Approved By:	Ch. Ellit	Date:	10/15/46
SUR 1/111594 00722PHC.CE2 - TPHsSUR 10/10/96			

Page No.:



CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

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October 21, 1996

Service Request No.: B9600731

Theresa Geijer
Texaco Environmental Services
3400 188th Street SW, Suite 630
Lynnwood, WA 98037

Re: Texaco Greenwood Project

Dear Theresa:

Attached are the results of the sample(s) submitted to our laboratory on October 9, 1996. For your reference, these analyses have been assigned our service request number B9600731.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results only apply to samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Colin B. Elliott

Laboratory Manager

cc: John Meyer - Environmental Resolutions, Inc.

CBE/bdr

Page 1 of 7

Analytical Report

Client:

Texaco

Project:
Sample Matrix:

Texaco Greenwood

Water

Service Request: B9600731

Date Collected: 10/9/96

Date Received: 10/9/96
Date Extracted: NA

Date Analyzed: 10/9/96

BTEX and Total Petroleum Hydrocarbons as Gasoline EPA Methods 5030A/8020 and Washington DOE Method WTPH-G Units: µg/L (ppb)

	Analyte: Method Reporting Limit:	Benzene 0.5	Toluene 1	Ethylbenzene 1	Total Xylenes 1	TPH as Gasoline 50
Sample Name	Lab Code					
EXWATER Method Blank	B9600731-01 B9600731-WB	ND ND	ND ND	ND ND	ND ND	ND ND

Approved By: Date: 16/21/96

5A/102194 00731PHC.CE2 - Water 10/22/96

Page No.:

Analytical Report

Client:

Texaco

Project:

Texaco Greenwood

Sample Matrix:

Water

Service Request: B9600731

Date Collected: 10/9/96 Date Received: 10/9/96 Date Extracted: 10/9/96

Date Analyzed: 10/9/96

Total Petroleum Hydrocarbon as Diesel and Oil Washington DOE Method WTPH-D Units: µg/L (ppb)

Analyte:

Diesel

Oil*

Method Reporting Limit:

250

750

Sample Name

Lab Code

EXWATER Method Blank B9600731-01

310 (a)

ND

B9600731-WB

ND

ND

Quantified using 30 weight motor oil as a standard.

(a)

Quantified as diesel. The sample contained components that eluted in the diesel range, but the chromatogram did not match the typical diesel fingerprint.

lot. Ellest Date: 10/21/56 Approved By:

2A/102094

00731PHC.CE1 - TPHw 10/21/96

Analytical Report

Client:

Texaco

Project:

Texaco Greenwood

Sample Matrix:

Water

Service Request: B9600731

Date Collected: 10/9/96

Date Received: 10/9/96

Date Extracted: 10/9/96

Date Analyzed: 10/9/96

Total Petroleum Hydrocarbon as Diesel and Oil with Silica-Gel Cleanup Washington DOE Method WTPH-D\ EPA 3630M

Units: µg/L (ppb)

Analyte:

Diesel

Oil*

Method Reporting Limit:

250

750

Sample Name

Lab Code

EXWATER

B9600731-01

ND

ND

Quantified using 30 weight motor oil as a standard.

Approved By:

2A/102094

In Ellott

Date: 10/21/96

Page No.:

00731PHC.CE1 - TPHw (2) 10/21/96

QA/QC Report

Client:

Texaco

Project:

Texaco Greenwood

Sample Matrix: Water

Service Request: B9600731

Date Collected: 10/9/96 Date Received: 10/9/96

Date Extracted: NA Date Analyzed: 10/9/96

Surrogate Recovery Summary BTEX and Total Petroleum Hydrocarbons as Gasoline

EPA Methods 5030A/8020 and Washington DOE Method WTPH-G

Sample Name	Lab Code	Percent Recovery 4-BFB (PID - BTEX)	Percent Recovery 4-BFB (FID - GAS)
EXWATER	B9600731-01	102	105
Method Blank	B9600731-WB	99	102

CAS Acceptance Limits:

86-117

86-117

Approved By:	lik.	Elliott	Date:	10/21/90
				

SUR2/111594

QA/QC Report

Client:

Texaco

Project:

Texaco Greenwood

Sample Matrix: Water

Service Request: B9600731

Date Collected: 10/9/96

Date Received: 10/9/96

Date Extracted: 10/9/96 Date Analyzed: 10/9/96

Surrogate Recovery Summary Total Petroleum Hydrocarbons as Diesel and Oil Washington DOE Method WTPH-D

Sample Name	Lab Code	Percent Recovery p-Terphenyl
EXWATER	B9600731-01	124
EXWATER	B9600731-01SILICA	72
Method Blank	B9600731-WB	123

CAS Acceptance Limits: 59-131

Approved By:	lon- Elleson	Date:	10/21/95
SUR1/111594	·		



CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

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APPENDIX B SOIL DISPOSAL MANIFESTS

Soil Master (c)

Customer Job Report Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

ob Numb	er Name		SiteAddress	Sit	eCity	State	ZipCode
<u> 1</u> 03 0062	- 23 TEXACO #63 - 2	32-0037	8701 GREENWOOD AVENUE	SE	ATTLE	WA	00000
Load#	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
9	09/13/96 10:27	3JLACON	ED	45,780M	25,060M	20,720	10.36
10	09/18/96 09:27	3JLACON	DARIN	95,440M	38,000M	57,440	28.72
11	09/18/96 09:27	3JLACON	DARIN	99,000M	37,960M	61,040	30.52
12	09/19/96 12:42	3JLACON	DARIN	100,800M	38,060M	62,740	31.37
13	09/19/96 12:43	3JLACON	JOHN	27,320M	12,940M	14,380	7.19
14	09/19/96 12:44	3JLACON	REX	56,960M	26,160M	30,800	15.40
15	09/19/96 12:44	3JLACON	DARIN	97,940M	38,060M	59,880	29.94
16	09/19/96 12:45	3JLACON	JOHN	74,920M	32,800M	42,120	21.06
19	09/19/96 12:48	3JLACON	DARIN	99,880M	38,060M	61,820	30.91
17	09/20/96 09:25	3JLACON	REX	53,740M	40,540M	13,200	6.60
18	09/20/96 09:48	3JLACON	DARIN	96,540M	38,280M	58,260	29.13
0	09/21/96 13:45	3JLACON		0	0	0	0.00
Complete 68.4	ed Loads Ma	nifests Received	Completed Weight 4,843.20%		d Weight (tons)		AL Net Wt: 41.20 (tons)

٠	Manifest		Non-	Hazard	lous S	oils			↓ Man	ifest #ै↓		
.	'Date of Shipment:	Responsible for Generate	•	ransporte	r Truck	; #:	Facility #: AØ3		ven by TPS: 0623		10ad #	
-	Conerator's Name and Billin TEXACO EH&S 3400 ~ 188th		- SUITE 4	#630	(20 Perso	rator's Phone 16) 774 In to Contact:	1-6090		Generator's U	5 EPA ID No.		
	LYNNWOOD, WA	98037	us Us	3A	FAX#		_		XT 224 Customer Acci 100151		with TPS:	
	Consultant's Name and Billi				Const	ultant's Phone	#:		100101			
	1921 EDMONDS	DRIVE SE			Perso	n to Contact:						
$ \cdot $	RENTON, WA 98	3Ø55	US	5A	FAX#	: 16) 22T			Customer Acco		with TPS:	
	Generation Site (Transport for TEXACO #63-23				Site P	hone #:			BTEX Levels			
=	8701 GREENWOO	OD AVENUE			Perso	n to Contact:			TPH Levels			
Consultant	SEATTLE, WA (୬ଟାଉପଏ <u> </u>	IJ9	3(A	FAX#	:			AVG. Levels			
	Designated Facility (Transport		,			ty Phone #: (る) 584~	-8430		Facility Permit	Numbers		
r and/or	2800 - 104th	••	unt South		Ran	n to Contact: a 후 즉 V 호	elina					
Generator	Tacoma, WA 98		US	ea.	FAX#: (206)584-8309				Transporter's US EPA ID No.:			
Ger	Transporter Name and Mailing ENVIROTECH SY	_			(32)	porter's Phon (6) 363						
	15520 AURORA	AVENUE NOF	RTH .		DON	n to Contact:		·	Transporter's I			
	SEATTLE, WAS		US	-,	(20	FAX#: (206) 546-1920			3ENVSY			
	Description of Soll	Moisture Content	Contaminated by:	Approx	k. Qty:	Descript	ion of Deliv	ery	Gross Weight	Tare Weight	Net Weigh	
	Sand O Organic O Clay O Other	0 - 10% □ 10 - 20% □ 20% - over □	Gas 🖸 Diesel 🖸 Other 🖸						45780	<i>35060</i>	20120	
2	Sand	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas 🗅 Diesel 🞝 Other 🗅		_		·····		10.36			
.	List any exception to items listed	above:	N/									
	Generator's and/or consults Sheet completed and certified any way.											
.	Print or Type Name:	Generator 🔾	Consultant 🗅	Sign	iature an	d date:		•		Month	Day Year	
Transporter	Transporter's certification condition as when receive without off-loading, adding	ed. I/We further cer	tify that this soil is	s being o	directly	transporte	d from the (soil is t Generat	eing delivered ion Site to the	l in exactly Designated	the same l Facility	
Trans	Print or Type Name:	Novane,			atufean		<u> </u>			Month	Day Year	
Recycling Facility	Discrepancies:			•	77	 	<i>J</i>		•			
ling	Recycling Facility certifies t	he receipt of the soil co	overed by this manife	est except	as not	ed above:						
Recyc	Print or Type Name: RENEE AVELING) - CSM		Sign	ature an					, G	1/5.	
					1.60	KCL.	<u> </u>	Me	<u>'</u>		10	

Manifest		Technolo Non-	Hazardo	ous Soils	<u>₩</u>	37.4	nifest # [™] ↓	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
*Date of Shipment:	Responsible for Pa Generator	,	fransporter	:Truck #:	Facility #: AO3	Given by TPS: 00623		Load 010
Generator's Name and Billing	; Address:			Generator's Ph		Generator's U	IS EPA ID No.	
TEXACO EH&S			ļ		<u>74-6090</u>			
3400 - 188th	STREET SW -	- SUITE i	#630	Person to Conta				
				THEREGO FAX#:	<u> </u>	- SXT, PP	count Number v	with TPS:
LYNNWOOD, WA	98037	US	SA		71-7786_	10015		
Consultant's Name and Billing				Consultant's Pl				
	5			(206) ව	27-0280 <u> </u>			
ERI 1981 EDMONDS	NOTHE OF			Person to Conta	ict:			
ITACT COMONOS	gratia wasan ulu			JOHN ME	YER		count Number v	oisk TDC-
	-a	. 148	SA	FAX#:		•		with 115;
RENTON, WA 98			5-	(206) @	<u> </u>	BTEX	.30	
Generation Site (Transport fro			ŀ	Site Phone #:		Levels	_	
TEXACO #63-83			ļ	Person to Conta	nct:	TPH		
9701 GREENWOO	D WAENNE					Levels		
				FAX#:		AVG.		
GESTIF WA D	ולולולולולו	110	94			Levels		
Designated Facility (Transpor				Facility Phone	#:	Facility Perm	it Numbers	
TPS Technolog	des inc.			(요이유) 독의				
2800 - 104th		et South		Person to Cont				
 = 266 - 1640U	uttare sour		Rends 9	ASTING				
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Tanona, IJO 02 Transporter Name and Mailin		1 17	_\ <u></u>	Transporter's I		Transporter's	US EPA ID No	.:
JLA CONSTRUCT				1 '	77 <u>-9571</u>			
7503 - 131st		RT FAST		Person to Cont		Transporter's	s DOT No.:	
್ವಾಟ್ನ — 13157	AND THE PROPERTY OF	N. I See F. Prof. I			<u>oftaice</u>		count Number	LIGHT TITO
announces and	00177	+ *2	89	FAX#:	48-3961	Customer Ac		with 11.2;
PUYALLUP, WA Description of Soil		Contaminated by			cription of Deliver		nt Tare Weight	Net Wei
Sand 🖸 Organic 🗅	0 - 10%	Gas 🔾 Diesel 🔾				95440	38000	574
Clay 🖸 Other 🖸	20% - over □	Other 🗅	_	 		()//0	1	-
1	0 - 10% 🖵 10 - 20% 📮	Gas 🚨 Diesel 🚨	-			28.72		
Sand Organic O	10 - 20%					10		
Clay 🗅 Other 🗅	20% - over 🗅	Other 🗆			 _			
•	20% - over 🗅					۸ .		
Clay 🔾 Other 🗅	20% - over above:	Other Other We certify that to	he soil ref	ferenced herein ove and nothin	is taken entirely 3 has been added	from those soils de or done to such so	scribed in the s il that would a	Soil Data alter it in
Clay O Other O List any exception to items listed a Generator's and/or consult Sheet completed and certifany way. Print or Type Name:	above: tant's certification: I/ fied by me/us for the C	Other We certify that the Generation Site s Consultant	shown abo	nature and date:	z has been added	or done to such so	Month	Day Ye
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	nifest			n-Hazard			(Art), (A.)	TAK C TONG	lest# ↓	TE COLD
Date of Ship	ment:	Responsible for I Generate	Payment:	Transporte	r Truck #:	Facility #: AØ3	Given 1 006	oy TPS: 23		Ø1
Generator's N	Name and Billing A	ddress:	•		Generator's Phone		Ger	nerator's US	EPA ID No.	
TEXACO					(206) 77					—-
3400	138th S	TREET SW	- SUITE	#630	Person to Contact:		10-			
			•		THERESA FAX#:	PETOFK	- 331	stomer Acco	unt Number v	with TP
LYNNWO	IOD, WA 9	8037	Ĺ	لزير JSA	(206) 77	1-7786		00151		
L	Name and Billing A				Consultant's Phor		i			
ERI	. tunic und billing .				(206) 22	7-0280				
	DMONDS D	SIVE SE			Person to Contact					
		,			JOHN WEA	<u> </u>				===
DESTON	, WA 980	म्	i	JSA	FAX#:	フェスクラギ	1 -	stomer Acco 전쟁군군공	unt Number v 171	with 11
				<u> </u>	(206) 22	7-6555		EX	ر يا 	
	ite (Transport from)				Site Phone #:			rels		
1	#63-232				Person to Contact		TP			
1870: B	REENWOOD	HAEURE					Le	els		
		•			FAX#:		AV			
	E. WA 00			JSA				/els		
Designated F	acility (Transport to	o): (name & address)			Facility Phone #:		Fac	ility Permit	Numbers	
TPS Te	chnologi	es (೧c.			(206) E84 Person to Contact					
1	· 104th S		irt Souti	٦	Ranea Av					
					FAX#:		_ i	<u></u>		
Тасова	. WA 984	44-6766	· Į	JSA	(206)584	-8309				
	Name and Mailing			-	Transporter's Pho	ne #:	Tra	nsporter's U	IS EPA ID No.	.:
JLA CO	INSTRUCTI	ON		•	(206) 53			 -	OT 1	
7503 -	· 131st S	Person to Contact: 5COTT TALERICO			Transporter's DOT No.:					
					SCOTT TA	<u>LERICO</u>	1	stomer Acco	unt Number	with TP
		-		1750%a N 10 A	8-5961		JLACO	N		
PUYALL	.UP, WA 9	8373		JSA ———	<u> </u>		 			1
		Noisture Content	Contaminated I		<u> </u>	ption of Deliv			Tare Weight	
			Gas Q Diesel Q Other Q		<u> </u>					
Descript	ion of Soil	0 - 10%	Gas Diesel Cother Co		<u> </u>					
Description Sand	Organic CO	0 - 10%	Gas Q Diesel Q Other Q		<u> </u>				Tare Weight 37960	
Sand Clay Clay Clay Clay C	Organic Cher Cher Cher Cher Cher Cher Cher Cher	0 - 10%	Gas Q Diesel Q Other Q Gas Q Diesel Q		<u> </u>					
Sand Clay Clay Clay Clay Clay Clay Clay Clay	Organic Onther O	0 - 10%	Gas Diesel Dother Diesel Dothe	the soil rej	<u> </u>	ption of Deliv	9 g	9000 2),52 e soils descr	37960 ribed in the s	6/0
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1	Manifest		No:	n-Hazard	_	_			↓ Mani	fest # ↓↓	Service Control of the Control of th
	Date of Shipment:	Responsible for I Generato		Transporte	r Truck #:		Facility #: AO3		ven by TPS: 2623		Load # 012
	Generator's Name and Billing TEXACO EH&S 3400 - 168th		- SUITE	#630	(206 Person to	Contact:	-6090	-	Generator's US		
	LYNNWOOD, WA			JSA	FAX#:		<u>:EIJER</u> 7786		XT. 224 Customer Acco 100151	unt Number v	vith TPS:
	Consultant's Name and Billin			_	Consulta	nt's Phone					
	1921 EDMONDS	DRIVE SE			Person to	Contact:			-		
	RENTON, WA 98	3055 		JSA _	FAX#: (206) 227	′-0225		Customer Acco		vith TPS:
	Generation Site (Transport for TEXACO #63-23		<u> </u>		Site Pho	ne #:			BTEX Levels		
),t	A701 GREENWOO				Person to	Contact:			TPH Levels		
Consultant	SEATTLE, WA V	୨ <i>ଉଦ୍</i> ଜନ୍ଧ	!	JSA	FAX#:		· .		AVG. Levels	·	
. Con	Designated Facility (Transpo				Facility I		-8430	_	Facility Permit	Numbers	
Generator and/or	TPS Technolog 2800 - 104th	-	rt Sout	n	Person to	Contact:	elino				
rator	Tacoma. WA 98	3444-6756	į	USA	FAX#: (206) 584~	-8309		! ! !	_	
Gene	Transporter Name and Maili	ng Address:	-	-		ter's Phon	e#: 9571		Transporter's l	JS EPA ID No.	:
	7503 - 131st		JRT EAST		1 -	Contact:	ERICO	 I	Transporter's I	OOT No.:	·
	PUYALLUP, WA	98373	i	USA			3-5961		Customer Acco 30 LACC	ount Number IN	with TPS:
	Description of Soil	Moisture Content	Contaminated	by: Appro	x. Qty:	Descrip	tion of Deli		Gross Weight		
	Sand 🔾 Organic 🔾 Clay 🗘 Other 🔾	0 - 10%	Gas 🗅 Diesel 🖸 Other 🖸						100800	38060	62740
	Sand O Organic O Clay O Other O	0 - 10%	Gas 🗅 Diesel 🗅 Other 🗅						31.31		
	List any exception to items listed						<u> </u>				
	Generator's and/or consul Sheet completed and certi any way.	Itant's certification: I fied by me/us for the	I/We certify that Generation Site	t the soil re shown ab	ferenced l ove and n	erein is to othing ha	aken entire s been add	ly from I ed or do	those soils desc ne to such soil	ribed in the l that would a	Soil Data ilter it in
	Print or Type Name:	Generator 🔾	Consultant		inature and o						Day Year
oorter	Transporter's certification condition as when receive without off-loading, addin	ed. I/We further cer	tify that this so	il is being	directly t	ranșporte	a from the	n soil is Genera	being delivere tion Site to th	d in exactly e Designated	the same I Facility
Transporter	Print or Type Name	LOUANEN			nature and c	. /	1/2	_		Month 69	19 96
Facility	Discrepancies:			•							
	Recycling Facility certifies	the receipt of the soil c	overed by this m								
Recycling	Print or Type Name: RENEE AVEL INC	o – csm		Sig	gnature and	late: UCE		011		- '	9/19
L	se print or type.	The state of the s	<u> </u>		/	<u> </u>		1	Ţ	-33	W _i .

	OF THE RESERVE	TI	PS Techno				ing	ý,	1 Mani	fest # ↓↓	
ÿ	Manifest			n-Hazard				er in	i sina hiji sa	Co. T. W.	Load
	Date of Shipment:	Responsible for Generate		Transporte	r Truck #:		acility #: AØ3		ven by TPS: ゆらとご		Ø13
	Generator's Name and Billing A	address:			Generato (206	or's Phone #:) 774-	-6090	!	Generator's US	EPA ID No.	
	3400 - 188th S	TREET SU	- SUITE	#630		Contact: ESA GE	IJER	! E	XT. 224		
	CANAMOOD, MU a	8037		USA	FAX#: (206) 771-	-7786	ı	Customer Acco	unt Number	with TPS:
	Consultant's Name and Billing	Address:		_	Consulta (205	nt's Phone #	: -4284	1			
	1921 EDMONDS D	RIVE SE			PERM	Contact: MEYEI	₹				
	RENTON, WA 980	55		usa	FAX#: (206) 227-	-0225	 ;	Customer Acco	ount Number	with TPS:
	Generation Site (Transport from TEXACO #63-232): (name & address) !ViVi37			Site Phor	ne #:			BTEX Levels		
	8701 GREENWOOD				Person to	Contact:			TPH Levels		
and consulain	SEATTLE, WA 00	୬ ୬ ୬୬		USA	FAX#:			_	AVG. Levels		
	Designated Facility (Transport t	o): (name & address)	 , 		Facility I くさのら	Phone #: > 등은4~6	3430		Facility Permit	Numbers	
i	TPS Technologi 2800 - 104th S		urt Sout	h	Person h	o Contact: 은 H V 라			· ! [
	Tacoma, WA 984		USA	FAX#: " (206) 584-6	 3309	-				
	Transporter Name and Mailing JLA CONSTRUCT			_	Transpor	ter's Phone	#:		Transporter's (JS EPA ID No	:
	7503 - 131st S		JRT EAST			Contact:	ERICO)	Transporter's I	OOT No.:	
	PUYALLUP, WA 9	8375		บรค) 846-			Customer Acce	uut Number	with TPS:
	Description of Soil	Moisture Content	Contaminated	by: Appro	x. Qty:	Description	n of Deli	very	Gross Welght	Tare Welght	Net Weig
	Sand D Organic D Clay D Other D	0 - 10%	Gas 🗅 Diesel 🗅 Other 🔾						27320 1.19	12940	1438
	Sand	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas 🗅 Diesel 🗅 Other 🔾					_	1.19		
	List any exception to items listed abo	ove:			_	_					
	Generator's and/or consultar Sheet completed and certified any way.	nt's certification: d by me/us for the	I/We certify that Generation Site	t the soil re e shown ab	ferenced h ove and n	erein is tak othing has	en entire been add	ly from ed or do	those soils desc ne to such soil	ribed in the t that would d	Soil Data Ilter it in
	Print or Type Name:	Generator 🔾	Consultant	G Sig	nature and d	late:		_		Month	Day Ye
·	Transporter's certification: condition as when received.	I/We further cer	rtify that this so	oil is being	directly t	ransported	that sucl from the	i soil is Genera	being delivered tion Site to th	d in exactly e Designated	the same l Facility
	without off-loading, adding Print or Type Name:		nn or in any wa		nature and d		Z	3		Month	Pay 1 4°
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	Print or Type Name: RENEE QUELING	~ CSM		Sig	nature and d	nate:	/			9 ب	1/19
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	Manifest		PS Technol Non-	-Hazard		_		↓ Man	ifest# 🌂	對為關
	Date of Shipment:	Responsible for	Payment: T	Transporte	r Truck #	: F.	######################################	Given by IPS: 인선등로급		Z Load #
	Cenerator's Name and Billin	ng Address:			Genera	tor's Phone #:	6090	Generator's U	S EPA ID No.	
	3400 - 188th		- SUITE	#63Ø		to Contact:	IJER -	- 8xT. <u>82</u>	4	
	LYNNWOOD, WA	98037	יָרַ:	56	FAX#: (208	5) 771-	7786	Customer Acc 12015		with TPS:
	Consultant's Name and Billi	ng Address:				tant's Phone #:			-	
	1921 EDMONDS	DRIVE SE			Person	to Contact:				_
	RENTON, WA 98	3055	US	SA	FAX#: (206	3).227-	Ø225	Customer Acc 10022		with TPS:
	Generation Site (Transport in TEXACO #83-20	om): (name & address) BB-012.37			Site Pho	one #:	· •	BTEX Levels	•	-
 ≈	8701 GREENWOO			***	Person	to Contact:	·	TPH Levels		
Consultant	SEATTLE, WA V	୬ଉବର ୨	US	5A	FAX#:			AVG. Levels		
	Designated Facility (Transpo)				430	Facility Permi	Numbers	
Generator and/or	TPS Technologies Inc. 2800 – 104th Street Court Sout				Person to Contact: Renee Gveline					
erator	Tacoma, NA 98	បទ	3A					•		
cen	Transporter Name and Maili			Renee Gvelino			Transporter's	US EPA ID No		
	JLA CONSTRUCTION 7503 - 131st STREET COURT EAST				Person	to Contact:		Transporter's	DOT No.:	
	PUYALLUP, WA	98373	US	ЗA	FAX#je) 845-	5961	Customer Acc	ount Number JM	with TPS:
	Description of Soil	Moisture Content	Contaminated by	: Approx	x. Qty:	Description	of Delivery	Gross Weight	Tare Weight	Net Weig
	Sand 🖸 Organic 🕽 Clay 🖸 Other 📮	0 - 10% 10 - 20% 20% - over 2	Gas 🗅 Diesel 🗅 Other 🗅					56960	26160	3080
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	Generator's and/or consul Sheet completed and certi any way.	tant's certification:	I/We certify that th Generation Site sl	ie soil ref liown abo	erenced ove and 1	herein is take nothing has b	n entirely fr een added o	om those soils desc r done to such soil	ribed in the that would a	Soil Data Ilter it in
	Print or Type Name:	Generator 3	Consultant 2	Sigr	nature and	date:			Month	Day Yea
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ians.	without off-loading, adding to, subtracting from or in any way delaying Print or Type Name: S				nature and		1111		1 - 1.	Day Ye
recycling racinty	Discrepancies:	ser played			<u> </u>	<u> </u>	<u> </u>	1 JANE	17)	10 101
Š	Recycling Facility certifies t	he receipt of the soil c	overed by this manif				-			 -
3	Print or Type Name:			Sign	ature and	date:				
	RENEE AVELING) - CSM		/	/ J	12.0	1	9/10		

٠,	Manifest			n-Hazard		ils			↓ Mani	fest#.↓	1 1 1 1 1	
	Date of Shipment:	Responsible for Generato	•	Transporte	r Truck #:		Facility #: AØ3		ren by TPS: 2623		Load Ø 145	
	Generator's Name and Billing TEXACO EH&S			uzma	(206	or's Phone 774 o Contact:	#: 6090		Generator's US	EPA ID No.		
	3400 - 186th :	SIKEEL SW	- 2011E	#D35	THER		EIJER	_ 9	XT. 224 Customer Acco		TDC:	
	LYNNWOOD, WA		L	JSA ———			-7786		100151	3	with 1F5.	
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	RENTON, WA 98	Ø55 	<u>.</u> .	JSA	FAX#: (206) 227	7-0225	,	Customer Acco		with TPS	
	Generation Site (Transport from TEXACO #63-23		. ,		Site Pho	ne #:			BTEX Levels			
'	8701 GREENWOO				Person t	o Contact:			TPH Levels	-		
Consultant	SEATTLE, WA Ø	മരത്ത	1	JSA	FAX#:				AVG. Levels			
	Designated Facility (Transport	to): (name & address)				Phone #:	- RA 707		Facility Permit	Numbers		
	TPS Technolog 2800 – 104th :		ırt South	1 ,	Person I	o Contact:						
ion ion	 Tacoma, WA 98	acoma, WA 98444-6766) 584-	6309		_			
	ransporter Name and Mailing Address: LA CONSTRUCTION				(2Ø5) 584-8309 Transporter's Phone #: (2Ø6) 531-9571			Transporter's U	er's US EPA ID No.:			
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	PUYALLUP, WA	98373	L	JSA _	PŽŠ6	.) B48	3-5961		Customer Acco	unt Number N	with TPS	
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	Sand Organic OClay Other O	0 - 10%	Gas Diesel Dother D	_					97940	38060	598	
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	Generator's and/or consult. Sheet completed and certifiany way. Print or Type Name:	ant's certification:	Generation Site	shown abo	ferenced of and r	othing ha	iken entirel s been adde	ly from l ed or do	those soils descr ne to such soil	tnat woula i	Soil Data	
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mindami	without off-loading, adding to, subtracting from or in any way delaying				ature and		N	>		Month 09	Day 9	
iccycling racinity	Discrepancies: Recycling Facility certifies th	ie receipt of the soil co	overed by this man	nifest excep	t as notes	l above:						
ŧΙ	Print or Type Name:		nature and									

		MATE DECADO	TI		_	Soil Recy	ycling		J Mani	fest #ੰ↓	1. July 1. Jul
_		Manifest			_	ous Soils	12			icorit	14 7 7
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	3	400 - 188th	STREET SW	- SUITE	#632	Person to Contac THERESA		- 4	XT. 224		
		YMNWOOD, WA	98037	ī	USA	FAX#: (206) 77	71-7786		Customer Acco		with TPS:
	•	onsultant's Name and Billin	g Address:			Consultant's Pho		1		<u> </u>	
		RI 921 EDMONDS	DRIVE SE			Person to Contact JOHN ME	rt:				
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ا چ		701 GREENWOO	D AVENUE			Person to Contac	:t:		TPH Levels		
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erator	T	ассяа, WA 9 <u>8</u>	444-6786		USA	FAX#: (206)584		!			···
Gen	Tra	Taccha, WA 98444-676 Transporter Name and Mailing Address: JLA CONSTRUCTION				Transporter's Ph (記名6) ある		<u> </u>	Transporter's U	.:	
v.	1	JLA CONSTRUCTION 7503 - 131st STREET C		JRT EAST		Person to Contact		ļ	Transporter's E		
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		Description of Soil	Moisture Content	Contaminated	by: Approx	x. Qty: Descr	iption of Deliv	ery	Gross Welght	Tare Weight	Net Welght
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Ш		st any exception to items listed a									<u> </u>
	Sh	enerator's and/or consult neet completed and certifi ny way.	ant's certification: . ied by me/us for the	I/We certify that Generation Site	the soil rej shown abo	ferenced herein is ove and nothing	taken entirel has been adde	y from tl d or don	iose soils descr e to such soil	ribed in the S that would a	Soil Data ılter it in
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oorter _	Tr co	ansporter's certification: andition as when received	i. I/We further cer	tify that this so	il is being i	directly transpor	ted from the	soil is t Generati	ion Site to the	Designated	l Facility
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11		Generato	or				<u></u>	20			10 H 2	
Ш	Generator's Name and Billing TEXACO EH&S	Address:				tor's Phone 5) 77^4	#: 4-6090) 	Generator's US	EPA ID No.	<u>.</u>	
	3400 – 188th :	STREET SW	- SUITE	#630		to Contact:	eeljer	· [XT. 224	i i		
	LYNNWOOD, WA	98037	į	JSA	FAX#:		i -7786	-	Customer Acco	unt Number	with TPS:	
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	ERI	,			(296	<u>5) (62)</u>	7-0289	ľ				
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	Generation Site (Transport from			- <u>-</u>	Site Ph	one #:	-		BTEX			
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٦	8701 GREENWOO!	D AVENUE			Person	to Contact:			Levels			
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and/or	2800 - 104th		urt Souti	٦.		to Contact:	aline.					
		THE THE PERSON		•	FAX#:	१८ मिन्द	STIND					
rat	Tacoma, WA 98	AAA-476A	1	JSA	1	5)584·	-8339					
Generator	Transporter Name and Mailing					orter's Phon			Transporter's U	Senerator's US EPA ID No. The EE4 Sustomer Account Number with 1001513 Tex evels PH evels WG. evels acility Permit Numbers Transporter's US EPA ID No.: Transporter's DOT No.: Transporter's D		
16	JLA CONSTRUCT		(206) 531-9571 Person to Contact:			Transparter's DOT No :						
-	7503 - 131st (STREET COL	JRT EAST		t				Transporter's I	Senerator's US EPA ID No. T. 224 Sustomer Account Number with TF 1001513 Sustomer Account Number with TF 1002230 TEX evels PH evels NG. evels acility Permit Numbers Tansporter's US EPA ID No.: Sustomer Account Number with TF 3JL FICEN Bross Weight Tare Weight Net Weight Net Weight Sustantial Susta		
					FAX#:		ERICO				with TPS:	
	PUYALLUP, WA '			JSA la	<u> </u>		3-5951 tion of Deliv				Not Weight	
	Description of Soil	Moisture Content		y: Approx	x. Giy.	Describ	HON OF DEIN	rely	Gross Height	Tale Height	itet neight	
	Sand 🔾 Organic 🔾 Clay 🔾 Other 🚨	0 - 10%	Gas 🗅 Diesel 🗅 Other 🗅						99880	3860	61820	
	Sand	0 - 10%	Gas 🗅 Diesel 🖸 Other 🖸						30.91			
	List any exception to items listed ab					-					,	
	Generator's and/or consulte Sheet completed and certific any way.	ant's certification: ed by me/us for the	I/We certify that Generation Site	the soil ref shown abo	ferenced ove and	herein is ta nothing ha	iken entirel s been adde	y from t d or do	hose soils desci ie to such soil	ribed in the t that would d	Soil Data ilter it in	
	Print or Type Name:	Generator 🖫	Consultant	□ Sigr	nature and	date:				Month	Day Year	
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ity	Discrepancies: Loa.L. 9	4011 W	IAS DUP	Ce Con		By 1	4001 1	ENT	. losa	1 #0	19	
Recycling Facility	WAS GENER	WITED F	OR THE	Dup.	Co,	M).						
ling	Recycling Facility certifies the											
cyc	Print or Type Name:			Sign	ature and	date:			_ 			
Rec	RENEE AVELING	- CSM			ÓK	el,	_ <u>C.</u>	66		- G	19	
Pleas	se print or type.	治、海 - 音集		- /			(4) (4)	SE.V		√ =	433 t	

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ı				Transport			Facility #:	∰″tis Gi	ven by TPS:	च्या सम्बद्धाः सम्बद्धाः	Load #	
í	Date of Shipment:	Responsible for	•	Iransport	er muck i	r.	AØ3		7623		Ø47 (
	G A A N and Billian A	<u> </u>	71	<u> </u>	Genera	itor's Phone			Generator's US	EPA ID No.	<u> </u>	
	Generator's Name and Billing A	address:			1	6) 774						
	3400 - 188th S	TREET SU	- SHITE	#630	_	to Contact:						
	3400 - 10001 0	111111111111111111111111111111111111111	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		THE		<u>EIJER</u>	<u>- 8</u>	XT, 224	<u> </u>	AN. TDC:	
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	Consultant's Name and Billing					Itant's Phone		_	20020	-		
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	Generation Site (Transport from			-	_	one #:			BTEX			
	TEXACO #63-232								Levels			
- t	8701 GREENWOOD				Person	to Contact:			TPH Levels			
Consultant		* 12 T .		ucs	FAX#:				AVG. Levels		. <u>-</u>	
Suc	SEATTLE, WA 170 Designated Facility (Transport t			USA	Facility	y Phone #:			Facility Permit	Numbers		
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Generator and/or	TPS Technologi				Person	to Contact:						
r an	2800 - 104th S	itreet Uol	int Sout	n		<u>ea Ave</u>	lino					
atoı			•		FAX#:		0.700					
ner	Талома, ЫР 989 Transporter Name and Mailing			<u>USA</u>	(206) 564-8509 Transporter's Phone #:				Transporter's US EPA ID No.:			
Ge	JLA CONSTRUCTI					6) 531			·	Tevels TPH Levels AVG. Levels Facility Permit Numbers Fransporter's US EPA ID No.: Fransporter's DOT No.: Customer Account Number with T CJLACON Gross Weight Tare Weight Net		
	7503 - 131st 8		IPT EAST	ī	Person	to Contact:			Transporter's I	stomer Account Number with 201513 Example 1		
	1965 - 29720 G	, (, (L.) L. () C.	J. 1 2 130 1			<u> TT TAI</u>	FRICO	<u> </u>	Customa Ass	t Mumbar	udsh TDS:	
	PUYALLUP, WA 9	6373		USA _	FAX#:	6) 846	3-5961					
	Description of Soil	Moisture Content	Contaminated	by: Appr	ox. Qty:	Descrip	tion of Deli	very	Gross Weight	Tare Weight	Net Weight	
	Sand O Organic O Clay O Other O	0 - 10%	Gas Q Diesel Q Other Q						53140	40910	13200	
	Sand 🔾 Organic 🔾	0 - 10% 🖸 10 - 20% 🗓	Gas 🗅 Diesel 🗅						6.60			
	Clay O Other C List any exception to items listed abo	20% - over 🗅	Other 🗅						-		<u> </u>	
	Generator's and/or consulta Sheet completed and certified any way.	nt's certification: d by me/us for the	I/We certify that Generation Sit	it the soil r e shown a	eferenced bove and	t herein is to nothing ha	aken entirei s been add	ly from ed or do	those soils desc ne to such soil	ribed in the S that would a	Soil Data ilter it in	
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Ļ	X Transporter's certification:	I/We acknowledge	e receipt of the	soil descri	bed abov	e and certij	y that such	ı soil is	being delivere	d in exactly	the same	
rte	condition as when received.	I/We further cer	tify that this so	oil is being	z directly	i transporte	a from the	Genera	tión Site to th	e Designated	i Facility	
Transporter	without off-loading, adding	to, subtracting fro	m or in any wa	iy delaying	delivery	to such su	e	John J.	 			
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-	Discrepancies:	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	- (1-2 <u>- (</u> 2-1-	<u> </u>	7		per .					
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clin	Recycling Facility certifies the	receipt of the soil c	overed by this m		ignature an		$-\frac{1}{2}$		•	771		
Recycling Facility	RENEE AVELIMO	- CSM				hide	Whi	pho	ell	1/2	\mathcal{L}	
نــــا	se print or type.	5 % S	<u> </u>			·	1991	NET.	San Francis	. KM32.5	1	
Pleas	se print or type.	5 S	: I				1.7973	70,007			 *** 	

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	Generator's Name and Billing TEXACO EH&S 3400 - 188せわ		- SUITE	#63Ø	Person to	774 Contact:	1-6090		Generator's US	·	
	LYNNWOOD, WA	98037	L	JSA	FAX#:		-7786		XT. 824 Customer Acco 100151	unt Number v	vith TPS:
╽	Consultant's Name and Billin	g Address:				1227	#: 7 – Ø280				
	1921 EDMONDS	DRIVE SE			Person to JOHN	Contact: 外E.YE	ER	,	Customer Acco	unt Number v	with TPS:
╽	RENTON, WA 98	Ø55 ———————————————————————————————————		JSA) <u>22</u> 7	7-0225	<u> </u>	100223	<u> </u>	
	Generation Site (Transport from TEXACO #63-23	om): (name & address) 2–0037			Site Phon	e #: 			BTEX Levels	<u> </u>	
<u> </u>	9701 GREENWOO				Person to	Contact:			TPH Levels		
Consultant	SEATTLE UA G	ପ୍ରଥମିତ୍ର ହ	1	JSA	FAX#:		_		AVG. Levels		
Cons	SEATTLE, WA Ø Designated Facility (Transpor	t to): (name & address)			Facility P		-8430		Facility Permit	Numbers	
nd/or	TPS Technolog 2800 - 104th		ort Souti	٦	Person to	Contact:					
Generator and/or	Tacoma, WA 98			JSA	FAX#:		-8399				
Gener	Transporter Name and Mailin	ng Address:			Transpor	er's Phoi			Transporter's I	JS EPA ID No	:
	7503 - 131st		JRT EAST		Person to	Contact:			Transporter's [
	PUYALLUP, WA	98373	l	JSA	FAX#.		3-5961		Customer Acco	ount Number	with TPS:
	Description of Soil	Moisture Content	Contaminated	by: Appro	x. Qty:	Descrip	otion of Deli	very	Gross Weight	Tare Weight	Net Weight
	Sand 🗆 Organic 🗅 Clay 🗅 Other 🗅	0 - 10% □ 10 - 20% □ 20% - over □	Gas 🗅 Diesel 🗅 Other 🗅					_	96540	38280	5860
	Sand Organic Clay Other O	0 - 10%	Gas 🖸 Diesel 🖸 Other 🖸						29.13		
	List any exception to items listed								. 7 1	alle of the flee	Cail Data
	Generator's and/or consul Sheet completed and certi any way.	ltant's certification: fied by me/us for the	I/We certify that Generation Site	the soil residence shown ab	eferenced h	erein is i othing h	taken entire as been add	ed or do	ne to such soil		
	Print or Type Name:	Generator - 🔾	Consultant	'	gnature and d						
Transporter	Transporter's certification condition as when receive without off-loading, adding	od. IIWe further cer	rtifu tliat tliiS SO	u is being	ангесну і	ransport	eu jioni ine	h soil is Genera	being delivere ition Site to th	d in exactly se Designates	the same d Facility
Trans	Print or Type Name	Grilait	= 1	Si	gnature and d	late:				Month	Day Year 96
Facility	Discrepancies: A HANAGER.	Definte.	3 Una	FE ST	Wris	15	sud	ĒÇ,	THE P	155i57.	Plant
g Fac	MANAGER.	FR. NED	K/ANIFE	TT T	nt as noted	74	O AF	ER_	FRUCK.	140 4	FF. PCA
Recycling	Recycling Facility certifies Print or Type Name:	tne receipt of the soil c	overeu vy mis mi		gnature and c					<u> </u>	
Rec	RENEE AVELING	O - CSM			Lane	C.	100	lec_1	<u> </u>	9	1/20
Plea	se print or type.			. /	NG CO) PV			<u> </u>		<u> </u>
			TPS	S INVOICE	אט טאווע	ノロコ					

, , ,		Manifest		PS Techno	_	s SOII Ki lous Soils	ecyc	ung	1.74	- ∰Mani	ifest#↓	av s
	1	Date of Shipment:	Responsible for		Transporte		T	Facility #:	Giv	ven by TPS:	5 5544	Load #
41				Í	-							1/8
1	ŀ	Generator's Name and Billing				Generator's			•	Generator's US	EPA ID No.	
	Ī	TEXACO EHE.	5 42 .)	,	, j <u>#</u>	(206) Person to Co		1-609	0			
	١	3400 - 1887	5+2887	SW-501	tE 63	THER		CEI	JER	- EXT	224	
		11/4/10/10>		27		FAX#:				Customer Acco	unt Number v	with TPS:
	ļ	L'INNWOOD.		/3 /		(206) T			رماي	100	1513	
	١	Consultant's Name and Billing	Address:			(206)			280			
\cdot	١	ERI		تتدسع مردن		Person to Co	ontact:	_				
.	ı	1921 EDMI	UDS DE	100 32		JOHN FAX#:) <u>/</u> /	IF YIZX		Customer Acco	ount Number v	with TPS:
.	ı	RENTON, WA	9805	5	13/A (206)	227	1-02	25	_	233()	
	I	Generation Site (Transport from	n): (name & address)		:	Site Phone #	! :			BTEX Levels		
	١	TEXACO # 1	,3-252	-003/		Person to Cu	ontact:			TPH	<u>. </u>	
Į į		8701 GREEN	IWOOD,	AUENUI	=					Levels		
Consultant					,	FAX#:				AVG. Levels		
ons	ŀ	SEA H/E. Designated Facility (Transport	to): (name & address)		NSA	Facility Pho	ne #: -	-		Facility Permit	Numbers	
		TPS TECHN				(206)	584	1.843	0			
and/or		2000 1001 th	01051 23	1 mont	50	Person to Cu		-1.				
		2800 104 th				FAX#:	J-7 L	12 11 30	0			.
erat		TACOMA. W.	A. 9844	14-676	6	2061	5841	-83	09		<u></u> .	
Generator	ſ	Transporter Name and Mailing	Address:		-	Transporter'	's Phone		7/	Transporter's l	S EPA ID No.	:
		JLA CONSI	PUCTIO	W	1 =	Person to Co		, 1	, ,	Transporter's [OOT No.:	
	ł	7503 - 1315	T STREE	+ COOK	/ /	50011	11	ALERI	co			
	İ	PUYAlluB.		·37 <i>3</i>		FAX#:	84	18 - 59	1.1	Customer Acco	Number of COK	with TPS:
	ŀ		Moisture Content		by: Appro			on of Deliv		Gross Weight		
	ŀ	Sand O Organic O	0 - 10%	Gas 🗓							20180	502/0
	١	Clay O Other O	10 - 20% □ 20% - over □	Diesel. □ Other □	<u> </u>					96590	3000	20060
	I	Sand O Organic O	0 - 10%	Gas 🗅 Diesel 🗅						96540 F1:13		
	ļ	Clay O Other O	20% - over ☐ .	Other Q						O'L		
		List any exception to items listed abo	14E;									
	ſ	Generator's and/or consulta	nt's certification:	I/We certify that	the soil re	ferenced here	in is tal	ken entirel	y froin t	hose soils desc	ribed in the S	Soil Data
H	ı	Sheet completed and certifie any way.	a by mejus for the	Generation Site	snown av	ove ana notni	ing nus	veen anae	a or aoi	te to such son	i/iii tooteia ii	iiter it in
. []	ł	Print or Type Name:	Generator 🗅	Consultant	□ Sign	nature and date:					Month I	Day Year
L	4							17		hairen dalimana	d in avaatlu	Alea carma
rter	l	Transporter's certification: condition as when received.	I/We acknowledge I/We further cer	receipt of the s tify that this so	ou describe il is being	ea above and directly tran	i certify isported	tnat such! from the	son is General	tion Site to th	e Designated	Facility
ods	ا .	without off-loading, adding	to, subtracting fro	m or in any way	y delaying o	deljvery to ^j su	uch site					
Transporter	I	Print or Tupe Name:	MOILAN	EN	Sign	norture and trate:	_//	NO				ZU 96
F	+	Discrepancies:			1 0						7- 1	
Ji Ś	۱,											
-aci	ŀ											
ing !	ŀ	Recycling Facility certifies the	receipt of the soil co	overed by this ma	mifest excep	t as noted abo	ove:	-				
Recycling Facility	.	Print or Type Name:		-		nature and date:			. /	1		
Rec						1	_	PI		. 21	9/2	0/9/-
L			200		<u> </u>	1 Buch	1 <i>11 1</i>	<u>/ //,</u>	nu	ey X	1100	110

Customer Job Report Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Job Numb	er Name		SiteAddress	Sit	teCity	State	ZipCode
	- 23 TEXACO #63-2	232-0037	8701 GREENWOOD AVENU	E SE	ATTLE	WA	00000
Load#	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (Ib)	Net (lb)	Net Wt (tons)
20	10/03/96 08:29	3ESECOR	REX	114,120M	41,300M -	- 72,820 51,020	36.41 25.51
21	10/03/96 08:31	3ESECOR	JOHN	84,300M	33,280M 35,960M	67,460	33.73
22	10/03/96 08:32	3ESECOR	KIRK	103,420M 111,720M	40,540M	71,180	35.59
24	10/03/96 08:33	3ESECOR	REX	111,720M 105,860M	36,040M	69,820	34,9
23	10/03/96 08:42	3ESECOR	GREG JOHN	76,300M	33,280M	43,020	21.51
25	10/03/96 08:43	3ESECOR 3ESECOR	KIRK	91,360M	35,960M	55,400	27.70
26	10/03/96 08:43	3ESECOR 3ESECOR	GREG	99,360M	36,040M	63,320	31.60
27	10/03/96 08:45 10/04/96 09:09	3ESECOR 3ESECOR	REX	105,080M	40,540M	64,540	32.2
28 29	10/04/96 09:10	3ESECOR	GREG	109,040M	36,040M	73,000	36.5
30	10/04/96 09:10	3ESECOR	KIRK	108,740M	35,960M	72,780	36.3
32	10/04/96 09:12	3ESECOR	DARIN	100,700M	38,240M	62,460	31.23
31	10/04/96 09:12	3ESECOR	GREG	109,200M	36,040M	73,160	36.5
	ed Loads Ma	nnifests Received	Completed Weight 13,954.80%		ed Weight (tons)		AL Net Wt: 19.99(tons)

TPS Technologies Soil Recycling **Մ Manifest # √ Manifest** Non-Hazardous Soils Load # Transporter Truck #: Facility #: Given by TPS: Responsible for Payment: Date of Shipment: 020 00623 A03 Generator Generator's US EPA ID No. Generator's Phone #: Generator's Name and Billing Address: (206) 774-6090 TEXACO EH&S Person to Contact: 3400 - 188th STREET SW SUITE #630 EXT. 224 THERESA GEIJER Customer Account Number with TPS: FAX#: USA 771-7786 1001513 WA 98037 LYNNWCOD, (206)Consultant's Phone #: Consultant's Name and Billing Address: (206) 227-0280 ERI Person to Contact: 1921 EDMONDS DRIVE SE JOHN MEYER Customer Account Number with TPS: FAY# USA 1002230 RENTON. WA 98055 (206) 227-0225 BTEX Site Phone #: Generation Site (Transport from): (name & address) Levels TEXACO #63-232-0037 TPH Person to Contact: 8701 GREENWOOD AVENUE Levels AVG. FAX#: Levels USA WA ଉପଦସଦ SEATTLE. Facility Permit Numbers Facility Phone #: Designated Facility (Transport to): (name & address) (2**0**61524-8430 TPS Tachnologies Inc. Person to Contact: 2500 - 104th Street Court South Ranae Avalino FAX#: USA (206)584-8309 Tacoma. WA 98444-6766 Transporter's US EPA ID No.: Transporter's Phone #: Transporter Name and Mailing Address: (206) 535-31<u>12</u> ESE CORPORTATION Transporter's DOT No.: Person to Contact: 11011 WALLER ROAD EAST MESCAPIOT STAN Customer Account Number with TPS: FAX#: BESECOR USA WA 98446 TACOMA. Net Weight Gross Weight | Tare Weight | **Description of Delivery** Contaminated by: Approx. Qty: Description of Soil Moisture Content 0 - 10% Organic 🗆 Diesel 🗅 10 - 20% Clay 🗅 Other 👊 Other 🚨 20% - over □ Gas 0 - 10%Sand 🖸 Organic 🔾 Diesel 🗆 10 - 20% Other 🚨 Clay Q Other 🚨 20% - over □ List any exception to items listed above: Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way. Month Signature and date: Consultant Cenerator Print or Type Name: Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site. Month Day Year Signature and date: Print or Type Name: Discrepancies: Facility Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Signature and dal Print or Type Name: PENEE AVELINO - CSM 可能能力。但是在100mm

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-	:Manifest		Noi Noi	_	lous Soils	e cy ciii i		V Man	ifest# ↓	
	Date of Shipment:	Responsible for Generate		Transporte	er Truck #:	Facilit AØJ		iven by TPS: 0623		Load # 20급은
	Generator's Name and Billin TEXACO EH&S	ng Address:	<u>-</u>		Generator's (⊇Ø6)	Phone #: 774-60	90	Generator's US	EPA ID No.	
2	3400 - 188th	STREET SW	- SUITE	#630			ER - F	XT.224		. du TDC-
	LYNNWOOD, WA	98037		JSA	FAX#: (206)	771-77	86	Customer Acco		with IPS:
	Consultant's Name and Billi ⊆RI	ng Address:			Consultant's (意図台)	: Phone #: 227-02	50			
	1921 EDMONDS	DRIVE SE			Person to Co					
	RENTON, WA 98		[_	JSA		227-02	25	Customer Acco		with TPS:
:	Generation Site (Transport fr TEXACO #63-23				Site Phone #	:		BTEX Levels	•	
<u></u>	8701 GREENWOO	DD AVENUE			Person to Co	ontact:		TPH Levels		
Consultant	SEATTLE, WA 0	වැවැවැවැව	U	ISA	FAX#:			AVG. Levels		
	Designated Facility (Transpo				Facility Pho		eri.	Facility Permit	Numbers	-
and/or	TPS Tachnolog	•			Person to Co		,,,	<u> </u>		
	2800 - 104th	Street Lot	irt Sauth	l	Renge FAX#:	Avelin	<u></u>			
Generator	Tacoma, WA 98	3444-5766	L	ISA	1	84-830	9	·		
Gen	Transporter Name and Maili	-			Transporter'		1.0	Transporter's U	JS EPA ID No	.:
	ESE CORPORTAT 11011 WALLER				Person to Co	535-31 ntact:	1,12	Transporter's I	XXT No.:	_
Waller at a second	TACOMA. WA 98			ISA	WES JE FAX#:	MUSUM		Customer Acco		with TPS:
	Description of Soil	Moisture Content	Contaminated b		x. Qty: Do	escription of l	Delivery	Gross Weight		Net Weight
	Sand O Organic O Clay O Other O	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas Q Diesel Q Other Q					103420	35960	67460
	Sand Organic C	0 - 10% 그 10 - 20% 그 20% - over 그	Gas 🖸 Diesel 🖸 Other 🖸					33.13		•
	List any exception to items listed	'		•						
	Generator's and/or consul Sheet completed and certi any way.	ltant's certification: fied by me/us for the	I/We certify that if Generation Site	the soil ref shown abo	ferenced herei	n is taken en ng has been i	tirely from a added or do	hose soils descr ne to such soil	ribed in the S that would a	Soil Data ilter it in
	Print or Type Name:	Generator 🔾	Consultant (Sigr	nature and date:				Month	Day Year
Transporter	Transporter's certification condition as when receive without off-loading, adding	ed. I/We further cer	tify that this soil	is being i	directly trans	sported from	such soil is the Genera	being delivered tion Site to the	l in exactly Designated	the same Facility
Trans	Print or Type Antine:	JAR		Sign	nature and date:	_			Month I	Day Year
Recycling Facility	Discrepancies:						- 1			
ling	Recycling Facility certifies t	he receipt of the soil co	overed by this man			ve:	· · · ·			
<i>Весус</i>	Print or Type Name: RENEE AVELING	- CSM		Sign	nature and date:	\supset .	V	•		
Pleas	e print or type.	Sign of the State								Ser.

TPS Technologies Soil Recycling Manifest # 4 Manifest Non-Hazardous Soils Given by TPS: Load # Responsible for Payment: Facility #: Transporter Truck #: **Date of Shipment:** ØØ623 283 AØ3 Generator Generator's US EPA ID No. Generator's Name and Billing Address: Generator's Phone #: 774-6090 (206) TEXACO EH&S Person to Contact: 3400 - 188th STREET SW - SUITE #630 THERESA GEIJER --日XT.224 Customer Account Number with TPS: FAX#: บรล LYNNWOOD, WA 98037' 771-7786 1001513 (206) Consultant's Phone #: Consultant's Name and Billing Address: (206) 227-0280 ERI Person to Contact: 1921 EDMONDS DRIVE SE JOHN MEYER FAX#: Customer Account Number with TPS: USA RENTON, WA 98055 (206) 227-0225 1002230 BTEX Generation Site (Transport from): (name & address) Site Phone #: Levels TEXACO #63-232-0037 TPH Person to Contact: 3701 GREENWOOD AVENUE Levels Consultan AVG. FAX#: Levels WA ØØØØØ USA SEATTLE, Facility Phone #: Facility Permit Numbers Designated Facility (Transport to): (name & address) (206)584-8430 and/or TPS Technologies Inc. Person to Contact: 2800 - 104th Street Court South Ranee Avelino Generator FAX#: Tadoma, WA 98444-6766 USA (206)584-8309 Transporter's US EPA ID No.: Transporter Name and Mailing Address: Transporter's Phone #: 535-3112 (206) ESE CORPORTATION Transporter's DOT No.: Person to Contact: 11011 WALLER ROAD EAST WES JOHNSON Customer Account Number with TPS: 3ESECUK FAX#: USA TACOMA, WA 58446 Gross Weight | Tare Weight | Net Weight Description of Delivery **Moisture Content** Contaminated by: Approx. Qty: **Description of Soil** 0 - 10%Gas Organic Q Diesel 🖸 ū 10 - 20% Clay 🖸 Other 🚨 Other 🗅 20% - over □ 0 - 10% Gas Sand 🗅 Organic D 10 - 20% Diesel 🗅 Clay 🔾 Other Q 20% - over 🗅 Other 🗅 List any exception to items listed above: Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way. Month Year Day Generator Consultant 🔾 Signature and date: Print or Type Name: Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility Kransport without off-loading, adding to, subtracting from or in any way delaying delivery to such site. Signature and date: Frint or Type Name Discrepancies: Facility Recycling Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: [0]3 REMEE AVELINO - CSM Please print or type.

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-	Manifest		Non-	Hazard	ous Soil	5		116/12/2	↓ Man	itest# 4	
	Date of Shipment:	Responsible for Benerate	•	ransporte	r Truck #:		Facility #: AØ3		ven by TPS: 2623		Load Ø34
	Generator's Name and Billin	g Address:				's Phone # 774			Generator's US	EPA ID No.	
	3400 - 188th	STREET SW	- SUITE #	#630	Person to		EIJER	: — E	XT.224		
	LYNNWOOD, WA	98037	ÜS	SA '	FAX#:	771			Customer Acco		with TPS:
	Consultant's Name and Billin	ng Address:				nt's Phone :		,	-		
	ERI 1921 EDMONDS	DRIVE SE			Person to		_				
	RENTON, WA 96	3Ø55	IJS	3A	FAX#:	227	-0225		Customer Acco		with TPS:
	Generation Site (Transport fr TEXACO #63-63		-		Site Phon	e #:			BTEX Levels		•
<u> </u>	8701 GREENWOO				Person to	Contact:			TPH Levels		
Consultant	SEATTLE, WA Ø	\ <i>(7)(2)(2)(2)</i> (2)	IJS	30	FAX#:				AVG. Levels		
	Designated Facility (Transpo			<u></u>	Facility P				Facility Permit	Numbers	
cenerator and/or	TPS Technolog	•			(206) Person to	<u> 5.34ー</u> Contact:	3430			<u></u>	
dir	2800 - 104th	800 - 104th Street Court Sou			Renee Avelino						
200	T (40' 50	acoma. WA 98444-6766			FAX#: (206)534-8309						
i di		acome. WA 98444-6766 ransporter Name and Mailing Address:			FAX#: (206) 534-8309 Transporter's Phone #:				Transporter's US EPA ID No.:		
3 	SE CORPORTATION				(206) Person to	<u> 535</u> .	-311£		Transporter's D	OCT No :	
•	11011 WALLER	ESE CORPORTATION 11011 WALLER ROAD EAST				COMMON COHINGI	JN		mansporter a c	701 140	
	TACOMA, WA 98	3446	US	6A	FAX#:				Customer Acco	unt Number	with TPS:
	Description of Soil	Moisture Content	Contaminated by:	: Approx	c. Qty:	Description	on of Deliv	ery :	Gross Weight	Tare Weight	Net Wei
	Sand Organic O	0 - 10%	Gas 🗅 Diesel 🗅 Other 🗅						111720	40540	1118
	Sand Organic OClay Other O	0 - 10%	Gas □ Diesel □ Other □						35:59		
	List any exception to items listed	above:									
	Generator's and/or consul Sheet completed and certi any way.	tant's certification: fied by me/us for the	I/We certify that th Generation Site sh	ie soil ref iown abo	erenced he	rein is tak thing has	en entirel been adde	y from t d or dor	hose soils desci se to such soil	ribed in the S that would a	Soil Data ilter it in
	Print or Type Name:	Generator 3	Consultant (1	Sign	ature and da	te:				Month	Day Ye
Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the saccondition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site. Print or Type Name: Signature and day Month Day								the same l Facility			
dilish	Print or Type Name:		ature and da		11/1/1-		A STATE OF THE STA	Month 1	Day Y		
<u>:</u>	K-xvi	1 -	Jimas .	المهمريسي <u>ر</u> م	1/	<u> </u>	ile.e-	10	<u> 7/</u>		
ille)	Discrepancies:										
ξ.		1		act over	as moted o	hove:		_			
יש ה	Recycline English andiffer t										
yening rat	Recycling Facility certifies t Print or Type Name:	ne receipt of the soil c	overea by this many		aturé and da			1	<u></u> نىسىد		
necycling racing			overea by this many					1		19	<u>/s</u>

	N. F	TI	PS Techno				ing	* 13:	The second second	ifest # ↓	15 THE COL	
هزادی	Manifest		No	n-Hazard				學學。		itest#		
	Qate of Shipment:	Responsible for Generation		Transporte	r Truck #:		acility #: 구연공		ven by TPS: 1623		Load # Ø 25	
	Generator's Name and Billing A	ddress:				or's Phone #:) 774	6090		Generator's US	EPA ID No.		
	3400 - 188th 5	TREET SW	- SUITE	#63Ø		o Contact: ESA GE	IJER	- E	XT. 224			
	LYNNWOOD, WA 9	8037	L	JSA	FAX#: (206) 771-	7786		Customer According 100151		with TPS:	
	Consultant's Name and Billing A	Address:			1	ant's Phone #:						
.	1921 EDMONDS D	RIVE SE			Person to	o Contact: MEYER			<u>-</u>		-	
	RENTON, WA 98%	55	ŧ	JSA	FAX#: (206) 227-	0225		Customer Acco		with TPS:	
	Generation Site (Transport from) TEXACO #63-232				Site Pho	ne #:			BTEX Levels ·	•		
Ę	3701 GREENWOOD	AVENUE			Person to	o Contact:			TPH Levels	_		
Consultant	SEATTLE, WA ØØ	000	<u>1</u>	JSA	FAX#:				AVG. Levels			
	Designated Facility (Transport to					Phone #:) 584-8	430		Facility Permit	Numbers	-	
and/or	TPS Technologi 2800 - 104th S		Irt South	7		o Contact: e Avel	ine					
Generator ar	Tacoma, WA 984	44-6766	<u>Į</u>	JSA	FAX#:)584-8	309		-	-		
Genera	Transporter Name and Mailing A	Address:	****	\		rter's Phone #			Transporter's U	.:		
	11011 WALLER R				Person to	o Contact:			Transporter's [
	TACOMA, WA 984	46	· ı	JSA	FAX#:	and the state of the	·-·		Customer Account Number with TPS SESECUR			
	Description of Soil N	Moisture Content	Contaminated I	by: Appro	x. Qty:	Description	n of Deliv	ery	Gross Weight	Tare Weight	Net Weight	
	Sand D Organic D Clay D Other D	0 - 10% □ 10 - 20% □ 20% - over □	Gas Diesel D Other D						74300	<u>3328C</u>	4302	
	Sand I Organic I Clay I Other I	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas 🗅 Diesel 🗅 Other 🗅							1.51	+.	
<u> </u>	List any exception to items listed above											
	Generator's and/or consultan Sheet completed and certified any way.	it's certification: I by me/us for the	I/We certify that Generation Site	the soil rej shown abo	ferenced h ove and n	ierein is take othing has b	n entirelg een adde	y from to d or don	liose soils desci le to such soil	ribed in the S that would a	Soil Data ilter it in	
	Print or Type Name:	Generator 3			nature and d						Day Year	
Transporter	and the state of t						soil i s Generat	Tepig delivered ion Site to the	l in exactly Designated	the same ! Facility		
ansp	Print or Type Name:	without off-loading, adding to, subtracting from or in any way delaying					Signature and date: Month Day Yes					
	Discrepancies:	15USA	.					<u>/</u>		10	5/40	
Recycling Facility												
ng Fa	Recycling Facility certifies the	receipt of the soil or	overed by this ma	nifest excen	t as noted	above:						
cycli	Print or Type Name:				naturé and d			$\overline{}$				
Rec	REMEE AVELINO -	- CSM		7	Ca	el (<u> </u>	die		11	13	
Plea	ise print or type.	The State of the S		/				* · ·		36.7		

œ.	ڊ پ، پهر	Manifest		Non Non	-Hazard		-	.img		↓ Man	fest #ੂੰ↓	
		Date of Shipment:	Responsible for Generation		Transporte	r Truck f	t: 	Facility #: A03		ven by TPS: 2623		Load # 2
		Generator's Name and Billing TEXACO EH&S 3400 - 188th 9		- SUITE	#63Ø	(≘Ø6 Person	tor's Phone 774 to Contact:	<u>-6090</u>		Generator's US	EPA ID No.	
ı		LYMNWOOD, WA 9	2.8.0.37	{ I	SA	FAX#:	<u>RESA 5</u> 5) 771			XT. 224 Customer Acco 100151		with TPS:
		Consultant's Name and Billing				Consul	tant's Phone	#:		100101	<u></u>	
		ERI 1921 EDMONDS I	ORIVE SE			Person	5) <u>227</u> to Contact: 4				<u> </u>	
•		RENTON, WA 980		Ü	SA	FAX#:	5) <u>22</u> 7	-0225		Customer Acco 1 20년2년		with TPS:
ı		Generation Site (Transport from TEXACO #63-23)			•	Site Ph	one #:			BTEX Levels		() () () () ()
	η t _	3701 GREENWOOI				Person	to Contact:			TPH Levels	<u></u>	
	Consultant	SEATTLE, WA 00	മമമര	U	SA	FAX#:				AVG. Levels		
		Designated Facility (Transport	to): (name & address)				Phone #:	9430		Facility Permit	Numbers	
		TPS Technolog: 2800 – 104th S		urt South		Person	to Contact:					
	Generator	Tacoma, WA 984	444-6766	Ų:	SA	FAX#:	 6)584-	9309				
- 1	Gene	Transporter Name and Mailing	g Address:			1 .	orter's Phone			Transporter's U	JS EPA ID No.	: :
-14		11011 WALLER S				Person	to Contact:		-	Transporter's I	OOT No.:	22.00
•		TACOMA, WA 984	446		SA	FAX#:	(1:00000	4.51 11	_	Customer Acco	R	
		Description of Soil	Moisture Content	Contaminated by	y: Approx	x. Qty:	Descript	ion of Deliv	ery	Gross Weight	Tare Weight	Net Weight
•		Sand 🔾 Organic 🔾 Clay 🗘 Other 🗘	0 - 10%	Gas 🗆 Diesel 🗅 Other 🗅			P.C	5.	_	02816	35960	<i>5545</i>
		Sand D Organic D Clay D Other D	0 - 10%	Gas 🖫 Diesel 🗅 Other 🗅						27	-07.	<u> </u>
		List any exception to items listed ab		<u></u>			_					
		Generator's and/or consulta Sheet completed and certific any way.	nt's certification: . ed by me/us for the	I/We certify that t Generation Site s	he soil rej hown abo	ferenced ove and	herein is ta nothing has	ken entirėly been added	i from ti d or doi: 	hose soils descr ne to such soil	ribed in the S that would a	Soil Data liter it in
	1	Print or Type Name	Generator 3	Consultant C		nature and						Day Year
	Transporter	Transporter's certification: condition as when received without off-loading, adding	. I/We further cer	tify that this soil	is being	directly	transported	l from the (soil is l Generat	being delivered ion Site to the	l in exactly Designated	the same Facility
	Trans	Print or Type Name:			Sign	nature and	date:	<u></u>			1 1	Day Year
	Facility	Discrepancies:		·	·							
	Sling	Recycling Facility certifies the	e receipt of the soil c	overed by this mani						-		
•	Recycling	Print or Type Name: RENEE AVELINO	- CSM ·		Sigr	nature and	aate:	Polo			10	18
L	Pleas	e print or type.				was	<u> </u>				- 一蒙。	

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T		Date of Shipment:	Responsible for Generat	Payment:	Transporte			Facility #: A図3	Gi	ven by TPS: 2623		Load #
		Generator's Name and Billing TEXACO EH&S 3400 - 188th		- SUITE	#630	(206 Person t	o Contact:	-6 <u>0</u> 90		Generator's US	EPA ID No.	
Ì		LYNNWOOD, WA	98037	ι	JSA	FAX#:		<u> -7786</u>		XT. 224 Customer Acco 100151		with TP5:
		Consultant's Name and Billin		·	_	Consult (206	ant's Phone					
		1921 EDMONDS RENTON, WA 98			J5A	JOHN FAX#:	o Contact:			Customer Acco		with TPS:
		Generation Site (Transport fro	om): (name & address)			Site Pho		-0225		100223 BTEX Levels		
١,		TEXACO #63-23 8701 GREENWOO				Person t	o Contact:		-	TPH Levels	-	
	Consultant	SEATTLE, WA Ø	JSA	FAX#:				AVG. Levels				
	/or	Designated Facility (Transport to): (name & address) TPB Technologies Inc.					Facility Phone #: (요영6) 등요4~84급성 Person to Contact:			Facility Permit Numbers		
	ator an	2800 - 104th Street Court South				FAX#:	e Ave					
	jen	Tacoins. WA 98444-6756 USA Transporter Name and Mailing Address: ESE CORPORTATION) 584 rter's Phone) 535			Transporter's US EPA ID No.:		
		11011 WALLER ROAD EAST				Person t	o Contact: JUHNS			Transporter's DOT No.: Customer Account Number with TPS: 3ESECDR		
		ТАСОМА, МА 98446			USA ntaminated by: Approx		Descripti	lan of Daliv		Gross Weight		
		Description of Soil Sand	0 - 10% ☐ 10 - 20% ☐ ☐	Gas Diesel Dother	oy: Appro	x. Qty:	Descript	on of Deliv	егу	T9360		
		Sand	20% - over ☐ 0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas Cl Diesel Cl Other Cl						3/	- Calor	-
		List any exception to items listed above: Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data										
		Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or do any way.								ie to such soil	that would a	ılter it in
		Print or Type Name: X Transporter's certification:	Generator 3			nature and o		that such	soil is	heino delineres		Day Year
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7,7	, i a	Print or Type Name: Signature and date: Signature and date: Month Day Discrepancies:									3 1%	
Recycling Escility	racinity						J					ļ
nilon	yemig	Recycling Facility certifies the Print or Type Name:	ne receipt of the soil co	overed by this man		t as noted				/)		
Por	וובר	RENEE AVELINO	- CSM	_	<u></u>	1011	Pa	<u>[] [] [</u>) of			9/3
Ple	eas	e print or type.		ł	7				·	55		· · · · · ·

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	Date of Shipment:	Responsible for Generato		Transporte	r Truck #:	Facility #: A03	Gi· اگا	ven by TPS: 0523		Load (038	
	Generator's Name and Billing Ad TEXACO EH&S	ldress:			Generator's I (EØ6)	Phone #: 774~6090	l 	Generator's US	EPA ID No.		
	3400 - 188th Si	TREET SW	- SUITE	#630	Person to Co	ntact: A BEIJER	: - E				
	LYNNWOOD, WA 98	3037	į	JSA	FAX#: (206)	771-7786		Customer Acco		with TPS:	
	Consultant's Name and Billing A	ddress:			Consultant's (206)	Phone #: 227-0280	ļ 			· · · · · ·	
	1921 EDMONDS DA	RIVE SE			Person to Co JDHN M						
	RENTON, WA 9805	55	t	JSA	FAX#: (206)	227-0225	; ;	Customer Acco		with TPS:	
	Generation Site (Transport from): TEXACO #63-232-		-		Site Phone #:	:		BTEX Levels	-		
 =	8701 GREENWOOD				Person to Co	ntact:		TPH Levels			
Consulant	, v SEATTLE. WA 000	ሳመመነ	ı	JSA	FAX#:			AVG. Levels			
	Designated Facility (Transport to): (name & address)			Facility Phon	ne#: (84-8430)	Facility Permit Numbers				
	TPS Tachnologia 2800 - 104th St		irt Souti	1	Person to Co						
	1			JSA	FAX#: (2:06)534-8309						
	Transporter Name and Mailing Address:				Transporter's	s Phone #:		Transporter's US EPA ID No.:			
	ESE CORPORTATION 1101% WALLER RO				Person to Co			Transporter's DOT No.:			
	: TACOMA, WA 9844	+ 6	L	JSA	WES JO	HNSON	-	Customer Acco		with TPS:	
	<u> </u>	oisture Content	Contaminated I	by: Approx	x. Qty: De	escription of Deliv		Gross Weight			
	Sand 🗅 Organic 🗹 Clay 🗅 Other 🗅	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas 🗆 Diesel 📮 Other 🗅					105080	40540	6459	
	Sand Organic C	0 - 10%	Gas 🖸 Diesel 🖸 Other 🖸					32.07			
	List any exception to items listed above:										
	Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Dal Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it is any way.										
	Print or Type Name:	Generator 3	Consultant	Sign	nature and date:	-			Month	Day Ye	
	Transporter's certification: If condition as when received. without off-loading, adding to	I/We further cer	tify that this soi	il is being i	directly trans	sported from the	ı soil is Genera	being delivered tion Site to the	l in exactly e Designated	the same Facility	
	Point or Type Name:				nature and date:		1//2	· ; 		Day Ye	
(man i e ma (car	Discrepancies:		· -		-	7			. <u> </u>		
	Recycling Facility certifies the r	eceipt of the soil co	overed by this man			ve:					
	Print or Type Name: RENES AVEL INO -	- CSM		Sign	nature and date:)/(r			
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	Date of Shipment:	Responsible for Generation	Payment:		er Truck #:	Facility #:	Gi වූා	ven by TPS: 21623	······································	Load #	
	Cenerator's Name and Billing TEXACO EH&S 3400 - 188th		– SUITE	#630	Person to Co	774-6092		Generator's US	EPA ID No.		
	LYNNWOOD, WA	98037	· <u>U</u>	ISA	FAX#:	771-7786		Customer Acco		with TPS:	
	Consultant's Name and Billing	Consultant's	Phone #: 227-0280	1							
	1921 EDMONDS	DRIVE SE			Person to Co	ontact: 1EYER					
$\ \cdot\ $	RENTON, WA 98	05 5	Ü	ISA	FAX#: (206) 827-0825			Customer Acco		with TPS:	
	Generation Site (Transport fro TEXACO #63-23	m): (name & address) 2–0037			Site Phone #	:		BTEX Levels			
_*	8701 GREENWOO				Person to Co	ontact:		TPH Levels			
sultar	SEATTLE, WA Ø	ଉଦ୍ଧ <u>ା</u> ଷ୍ଟ ଅ	U	ISA	FAX#:			AVG. Levels			
Con	Designated Facility (Transpor	t to): (name & address)			Facility Pho	ne #: 584-8430		Facility Permit Numbers			
r and/or Consultant	TPS Technolog 2800 – 104th		ırt South	I	Person to Co	ontact: Avelino					
Generator	Tacoma, WA 98	SA	(206)5	584-8309		Transporter's US EPA ID No.:					
Ger	Transporter Name and Mailin			535-3118	<u>: </u>	Transporter's DOT No.:					
	11011 WALLER				Person to Contact: WES JOHNSON		·				
	TACOMA, WA 98446		USA		FAX#:			Customer Account N SESECUR			
	Description of Soil	Moisture Content	Contaminated b	y: Appro	x. Qty: D	escription of Deli		Gross Weight		Net Weight	
	Sand D Organic D Clay D Other D	0 - 10%	Gas Diesel COOther COOTH	_		· .		109040 3h, D	36040	13000	
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	Generator's and/or consult Sheet completed and certifi any way. Print or Type Name:	ant's certification: ied by me/us for the	Generation Site	shown abo	ferenced here ove and noth	in is taken entire ing has been add	ly from I ed or do	those soils descr ne to such soil	that would a	Soil Data alter it in	
le.	X Transporter's certification:	I/We acknowledge	receipt of the so	il describe	ed above and	certify that such	h soil is	being delivered	in exactly	the same	
Transporter	condition as when received without off-loading, adding	to, subtracting fro	nify that this soil m or in any way	delaying (delivery to si	ich site.	genera			Day , Year	
Iza		5 moth		Sig	nature and date:	Mo	Ut.		10	4 96	
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cling	Recycling Facility certifies the	ne receipt of the soil c	overed by this man		nt as noted abo		1				
Recy	RENEE AVELINO	- CSM		5.5		Y. 1	$\Big)$.				
Pleas	se print or type.	多数12mm 7,00%		<u></u>	-		- 19	\$ 1. V			

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	· ·	Date of Shipment:	Responsible for Generato	Payment:	Transport			Facility #: A図3。	Gi	ven by TPS: 2623		Load # 결국인
:		Generator's Name and Billing A TEXACO EH&S 3400 - 188th S		- SUITE	#63Ø	(全)) Person	ntor's Phone 6) 774 to Contact:	}-6090		Generator's US XT. 요요수	5 EPA ID No.	
		LYNNWOOD, WA 9	8037	Į	JSA	FAX#:		_		Customer Acco		with TPS:
		Consultant's Name and Billing A ERI	Address:		•		ltant's Phone		1			
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		RENTON, WA 980	55	ι	JSA	FAX#:	6) 227	7-0825	į	Customer Acco		with TPS:
		Generation Site (Transport from) TEXACO #63-232					ione #:			BTEX Levels	•	
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ق ا	5	Designated Facility (Transport to TFS Technologi				(20	/ Phone #: <u>ら)高さネー</u> to Contact:	-843Ø		Facility Permit	Numbers	
erator and	0 010	2800 - 104th S	treet Cou	irt South	1		ର୍ଚ୍ଚ ମଧ୍ୟ	lino			-	
	, ilciai	Tacoma, WA 984-		i	JSA	(20	5) 534 orter's Phon			Transporter's (JS FPA ID No	
11355 1255 1255 1255 1255 1255 1255 1255	3	ESÉ CORPORTATIO	NC			(286) 535-3112 Person to Contact:				Transporter's DOT No.:		
Service Services		11011 WALLER ROAD EAST TACOMA, WA 98448 USA					WES JOHNSON FAX#:			Customer Account Number with TPS SESECOR		
建步		· · · · · · · · · · · · · · · · · · ·	loisture Content			x. Qty:	Descript	ion of Deliv	ery	Gross Weight		Net Welght
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		List any exception to items listed above: Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data										
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		Print or Type Name:	Generator 3			nature and						Day Year
ansporter	Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading-adding-to, subtracting from or in any way delaying delivery to such site.										the same ! Facility	
Trans		Print or Type Name:	- A	>	Sign	nature and	date:				Month 1	Oay Year
Recycling Facility		'Qiscrepancies:										, — 3 -
Sling F	,	Recycling Facility certifies the r	eceipt of the soil co	vered by this man				,				
Recy		Print or Type Name: RENEE AVELINO -	- CSM		Sigr	ature and	date:	? <u>L</u>) ,			
Pie	ase	e print or type.			<u> </u>		'\\\			-	*(2) s	

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Date of Shipment	Responsible for Generate		Transporte	r Truck	#: 	Facility #:		ven by TPS: 26은3 —————		Load Ø32
Generator's Name and Bill TEXACO EH&S	ing Address:				ator's Phone 6) 774			Generator's US	EPA ID No.	
3400 – 188th	STREET SN	- SUITE	#5.3Ø	THE		EIJER	<u>-</u> E	XT. <u>224</u>		
LYNNWOOD, WA		L	JSA		6) 771			Customer Acco 100151		with TPS:
Consultant's Name and Bil	ling Address:			1	Itant's Phone 6) 227					
1981 EDMONDS	DRIVE SE				to Contact: N MEYE	R	<u>.</u>			
RENTON, WA 9	8955	Į.	JSA _	FAX#:	6) 227	0225		Customer Acco		with TPS:
Generation Site (Transport TEXACO 排53~2				Site Pl	none #:		-	BTEX Levels	•	
3701 GREENWO				Person	to Contact:			TPH Levels		
SEATTLE, WA Designated Facility (Transp	୭ ୬୭୭୭	Ł	JSA	FAX#:			•	AVG. Levels		
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TPS Technolo 2800 - 104th		int South	ì	(206) 504-8430 Person to Contact: Rense Avalino						
Tacoma, WA 9			JSA		6)58 <u>4</u> -					_
Tacoma, MA 9 Transporter Name and Mai ESE CORPORTA				(20	orter's Phone		<u></u>	Transporter's U		.:
11011 WALLER	ROAD EAST			WEE	to Contact: JOHNS	ON		Transporter's D		
TACOMA, WA 9	8446		ISA	FAX#:	<u> </u>		İ	Customer Acco	-	
Description of Soil	Moisture Content	Contaminated b	y: Appro	x. Qty:	Descript	ion of Deliv	ery	Gross Weight	Tare Weight	Net Wei
Sand O Organic O Clay O Other O	0 - 10%	Gas 🗆 Diesel 🗓 Other 🗅			_			100760	38240	6246
Sand O Organic O Clay O Other O	0 - 10%	Gas 🗅 Diesel 🗅 Other 🗅						31.23		
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RENEE AVEL IN	o – CSM		aigr	($^{\prime}$ $^{\prime}$				
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		Generator's Name and Billing TEXACO EH&S		_ QUITE	おく ブラ	(20)	tor's Phone 5) 774 to Contact:	#: I-6090	Generator's U	EPA ID No.		
243		3400 - 188th STREET SW - SUITE #6						EIJER -	- EXT. 224	ount Number	with TPS:	
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		Consultant's Name and Billing				(806) <u>8</u> 27	'-0280				
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i y		RENTON, WA 980		l	JŚA	FAX#: Customer Acc (206) 227-0225 10022					with TPS:	
		Generation Site (Transport from TEXACO #63-238				Site Ph	one #:	·	BTEX Levels	•		
4	ut.	8701 GREENWOOL) AVENUE			Person	to Contact:		TPH Levels			
· · · · · · · · · · · · · · · · · · ·	Consultant	SEATTLE, WA 🕫	<u>මැති</u> ව	. .	JSA	FAX#:			AVG. Levels			
<u>.</u>		Designated Facility (Transport		1	Í		Phone #: 5) 584~	·8430	Facility Permit	Numbers	ļ	
	and/				'n	Person	to Contact: 후 음호설	·	i			
	Generator	Tacoma, WA 984	444-6768	t	JSA	FAX#: (≘Ø6	 5)584-	8389	į			
	Gen	Transporter Name and Mailing Address: ESE CORPORTATION				1 7	orter's Phone		Transporter's U	Transporter's US EPA ID No.:		
		11011 WALLER F				Person	to Contact:		Transporter's I	OOT No.:	-	
		TACOMA, WA 98446 U			JSA.	NES JOHNSON FAX#:			Customer Account Number with TPS: .3ESECOR			
		Description of Soil	Moisture Content	Contaminated b	oy: Appro	c. Qty:	Descript	ion of Delivery			Net Weight	
		Sand ① Organic ① Clay ② Other ②	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas Q Diesel Q Other Q					109200	Hacfo	13160	
<i>.</i>		Sand Organic Organic Other O	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas Q Diesel Q Other Q				· .	36,58		j S	
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil D Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter in any way.										
\$3. 1	l	Print or Type Name:	Generator 3	Consultant	□ Sign	ature and	date:			Month	Day Year	
	ransporter	Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.										
7	rans	Print or Type Name: GreG	gnature and date: Month Day Year 10 4 96									
Continue	necycling raciiny	Piscrepancies:					- 		7			
Saile		Recycling Facility certifies the	receipt of the soil co	overed by this man	 			<u> </u>				
7000	necy	Print or Type Name: RENEE AVEL INC	- CSM	•	Sign	ature and	date:	PI				
Pie	ease	print or type.				-						

APPENDIX C METRO DISCHARGE AUTHORIZATION

King County Water Pollution Control Division

Industrial Waste Program
Department of Natural Resources
130 Nickerson Street, Suite 200
Scattle, WA 98109-1658

September 11, 1996

Post-it* Fax Note 7671 Date

To John Myst From Lorest Co.

Co./Dept Ext Co.

Phone # 227-0280 Phone # 659-3017

Fax # 227-0225 Fax # 659-3017

Robert E. Bayley Construction, Inc. 205 Columbia Street P.O. Box 4567 Seattle, WA 98104-0567

Authorization to Discharge to the Sanitary Sewer

Dear Mr. Bayley:

The King County Department of Natural Resources' Industrial Waste Program has reviewed the September 6, 1996, letter requesting authorization to discharge groundwater pumped from the former Texaco Facility #63-232-0037 located at 8701 Greenwood Avenue North, Seattle, Washington to the sanitary sewer. King County grants approval for the discharge of up to 1000 gpd of groundwater for up to one month provided that: Kami Wong of Seattle Drainage and Wastewater (684-7774) is notified to allow for assessment of sewer charges; and the discharge criteria outlined in the following paragraphs are met. There is no fee for this authorization.

This authorization permits you to discharge limited amounts of groundwater into the King County sewer system in accordance with the regulations outlined in King County Code 28.84.060 and Ordinance No. 11034 (enclosed) and the following discharge criteria:

Discharge Limitations

Constituent	Maximum Concentration, ppm
Benzene	0.13
Toluene	1.5
Ethylbenzene	1.4
Nonpolar Fats, Oil & Grease (Nonpolar FOG)	10
Lead	4.0

Operating Procedures

- a) There shall be no pronounced odor of solvent or gasoline.
- b) There shall be no pronounced oil sheen or unusual color.
- c) There shall be no pronounced hydrogen sulfide (rotten egg) odor.
- d) There shall be no visibly pronounced turbidity; the discharge must remain translucent.

14:40 FAX 206

King County will expect operators on site to pay close attention to these operating procedures whenever discharge to the sanitary sewer is occurring. If any of the discharge limits or operating criteria are exceeded, you must stop discharging and notify the King County Industrial Waste Section at 689-3000.

The formal requirements and fees of a full wastewater permit will not be required as long as you maintain good compliance and do not change the nature and volume of your discharge.

Changes to, or additions at, this facility may cause us to reassess this decision and require that you obtain a full wastewater discharge permit. If you propose to substantially increase the volume of your discharge or change the type and quantities of substances discharged, you must submit a new waste discharge permit application to King County. State law requires that such application for a permit be made a minimum of sixty (60) days before starting a new discharge. Therefore, to avoid delays, please time your submittal accordingly.

King County Industrial Waste staff want to help you stay in compliance with our regulations. If at any time you have questions about this authorization, or other questions about your discharge, please do not hesitate to call me at 689-3017.

Since ely,

Horace Lee

Senior Industrial Waste Investigator

June Lee

Department of Natural Resource, Business Outreach Unit

Enclosure

cc:

Doug Knutson, Department of Ecology

Kami Wong, City of Seattle

Doug Hilderbrand, King County

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