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AUG 14 1998

Unusual # 5353

LUST
3043

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3/25/99

DATE: August 11, 1998

TOSCO MARKETING COMPANY QUARTERLY REPORT

DEPT OF ECOLOGY

Tosco Facility: 5353 Address: 600 Westlake Avenue North, Seattle, Washington
 Tosco Environmental Manager: Timothy D. Johnson
 Consulting Co./Contact Person: Environmental Resolutions, Inc., John Meyer
 ERI Project No.: 03102013
 Primary Agency/Regulatory ID No.: Washington State Department of Ecology UST 2788 and 2789

WORK PERFORMED THIS QUARTER(S) [Second - 1998]:

- 1. Second quarter groundwater monitoring, sampling, and report.

WORK PROPOSED FOR NEXT QUARTER [Third - 1998]:

- 1. Third quarter groundwater monitoring and sampling.

Current Phase of Project:	Remediation	(Assmnt, Remed., etc.)
Frequency of Sampling:	Quarterly	(Quarterly, etc.)
Frequency of Monitoring:	Quarterly	(Monthly, etc.)
Are Liquid Phase Hydrocarbons Present On-site:	Yes	(Yes/No)
Cumulative LPH Recovered to Date:	46,632 Gallons	(gallons)
LPH Recovered This Quarter:	None	(gallons)
Bulk Soil Removed to Date:	No	(cubic yards)
Bulk Soil Removed This Quarter:	No	
Water Wells or Surface Waters w/in a 2000' Radius & Their Respective Directions:	Lat	
Current Remediation Techniques:	VI	Independent Action Report Update
Permits for Discharge:	PS	
Approximate Depth to Groundwater:	8 ft	
Groundwater Gradient:	Ge	
	0.1	

Site Name: Unusual # 5353
 Inc. #: 3043 Date of Report: 8-11-98
 County: King Date Report Rec'd: 8-14-98
 Reviewed by: Ben Amoah-Forsen

Discussion: On June 26, 1998, Environmental Resolutions, Inc. Groundwater samples were collected without purging. Results with a gradient generally directed toward the east. Liquid-phase SMW-4 (trace).

The groundwater samples collected from MW-34 and MW-37 (G and TPH-D), benzene, and ethylbenzene exceeding MTC also contained concentrations of toluene and total xylenes collected from MW-43 and MW-47 contained benzene and other analyte concentrations exceeded MTCA Method A.

Summary of Unusual Activity: None
 Agency Directive Requirements: None
 Recommended Activities: Continue quarterly groundwater monitoring

ATTACHED:

- * Plate P-1 - Groundwater Sample Analyses Map, 6
- * Table 1 - Groundwater Analytical Results
- * Laboratory Reports and Chain-of-Custody Document

Comments (e.g. free product, off site migration, Conc. Trend)
SMW-4 & MW-37 show free product. Other 2 wells show TPH & BTEX above method A
Interim

cc: Washington State Department of Ecology
GeoEngineers

Environmental Resolutions, Inc.

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Tosco Facility: 5353 Address: 600 Westlake Avenue North, Seattle, Washington
 Tosco Environmental Manager: Timothy D. Johnson
 Consulting Co./Contact Person: Environmental Resolutions, Inc., John Meyer
 ERI Project No.: 03102013
 Primary Agency/Regulatory ID No.: Washington State Department of Ecology UST 2788 and 2789

WORK PERFORMED THIS QUARTER(S) [Second - 1998]:

- 1. Second quarter groundwater monitoring, sampling, and report.

WORK PROPOSED FOR NEXT QUARTER [Third - 1998]:

- 1. Third quarter groundwater monitoring and sampling.

Current Phase of Project:	Remediation	(Assmnt, Remed., etc.)
Frequency of Sampling:	Quarterly	(Quarterly, etc.)
Frequency of Monitoring:	Quarterly	(Monthly, etc.)
Are Liquid Phase Hydrocarbons Present On-site:	Yes	(Yes/No)
Cumulative LPH Recovered to Date:	46,632 Gallons	(gallons)
LPH Recovered This Quarter:	None	(gallons)
Bulk Soil Removed to Date:	None	(cubic yards)
Bulk Soil Removed This Quarter:	None	(cubic yards)
Water Wells or Surface Waters w/in a 2000' Radius & Their Respective Directions:	Lake Union, 400 Feet North	(Distance and Direction)
Current Remediation Techniques:	YES	(SVES, LPH Removal,
Permits for Discharge:	PSAPCA No. 4397	(NPDES, POTW, etc.)
Approximate Depth to Groundwater:	8 to 11 Feet	(Measured Feet)
Groundwater Gradient:	Generally East	(Direction)
	0.003 Vertical Feet per Linear Foot	(Magnitude)

Discussion: On June 26, 1998, Environmental Resolutions, Inc., (ERI) gauged 12 and sampled 7 groundwater monitoring wells. Groundwater samples were collected without purging. Results indicated groundwater present approximately 8 to 11 feet bgs with a gradient generally directed toward the east. Liquid-phase hydrocarbons (LPH) were observed in MW-37 (0.01 ft.) And SMW-4 (trace).

The groundwater samples collected from MW-34 and MW-35 contained concentrations of total petroleum hydrocarbons (TPH-G and TPH-D), benzene, and ethylbenzene exceeding MTCA Method A Cleanup Levels. The sample collected from MW-34 also contained concentrations of toluene and total xylenes exceeding MTCA Method A Cleanup Levels. Groundwater samples collected from MW-43 and MW-47 contained benzene concentrations exceeding the MTCA Method A Cleanup Level. No other analyte concentrations exceeded MTCA Method A Cleanup Levels in any well sampled.

Summary of Unusual Activity: None
 Agency Directive Requirements: None
 Recommended Activities: Continue quarterly groundwater sampling

ATTACHED:

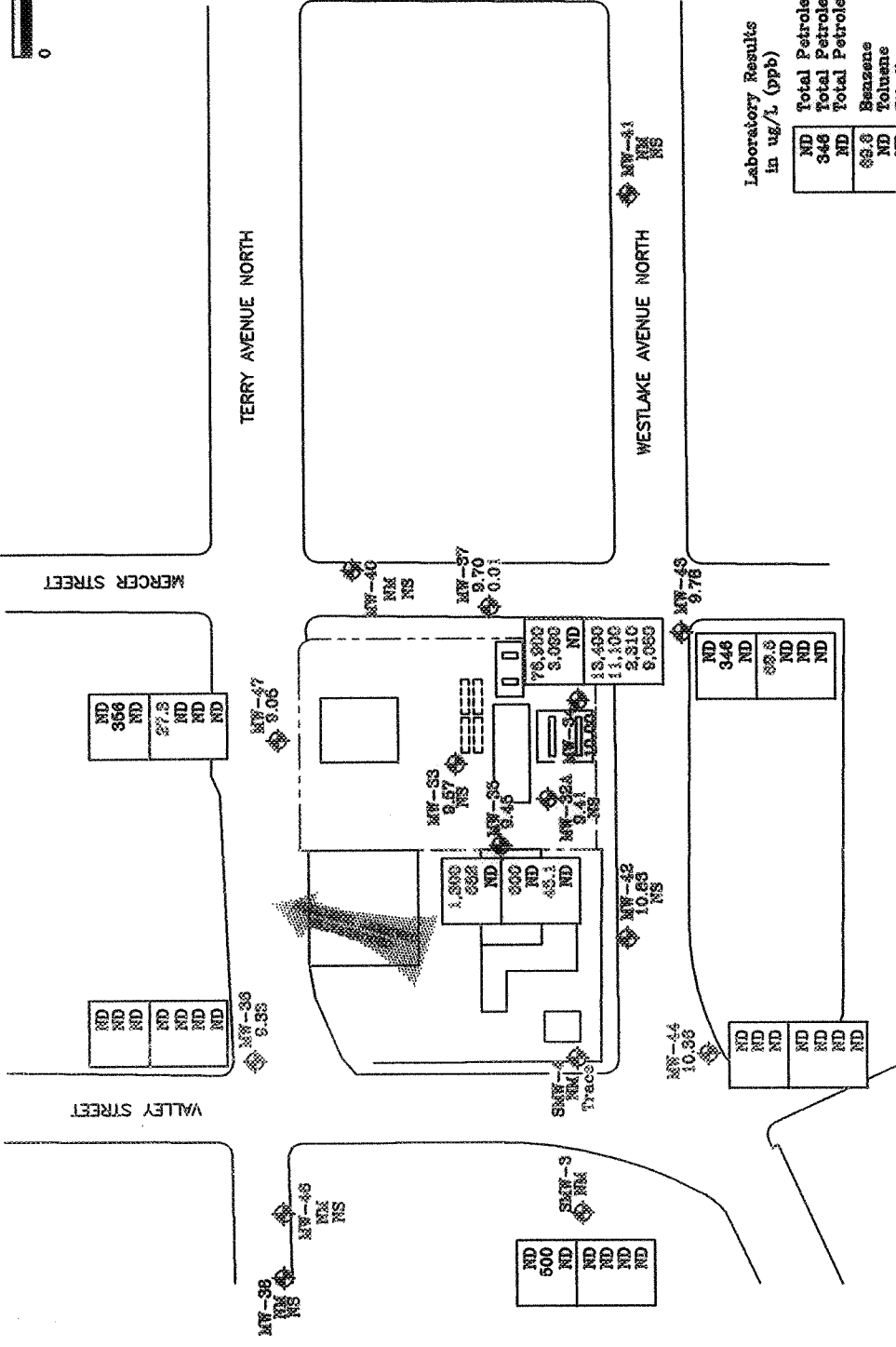
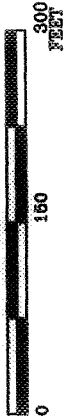
- * Plate P-1 - Groundwater Sample Analyses Map, 6/26/98
- * Table I - Groundwater Analytical Results
- * Laboratory Reports and Chain-of-Custody Documentation

Prepared by:

John K. Meyer, R.G.
Environmental Resolutions, Inc.

cc: Washington State Department of Ecology
GeoEngineers

APPROXIMATE SCALE



Laboratory Results
in ug/L (ppb)

ND	Total Petroleum Hydrocarbons as Gasoline
346	Total Petroleum Hydrocarbons as Diesel
ND	Total Petroleum Hydrocarbons as Oil
83.8	Benzene
ND	Toluene
ND	Ethylbenzene
ND	Total Xylenes

Numbers in Red Exceed
MPCA Method A Cleanup Levels
ND = Not Detected

SOURCE: Modified from maps provided by Tesco Marketing Company

FN 6363

GROUNDWATER SAMPLE ANALYSES MAP - 6/26/98
 TOSCO FACILITY 5353
 600 Westlake Avenue North
 Seattle, Washington

EXPLANATION

◆ MW-37	Groundwater Monitoring Well
9.70	Groundwater Elevation
0.01	Free Product Thickness in Feet
RM	Not Measured
NS	Not Sampled

PROJECT NO.

31020

PLATE

P-1

DATE: 8/11/98

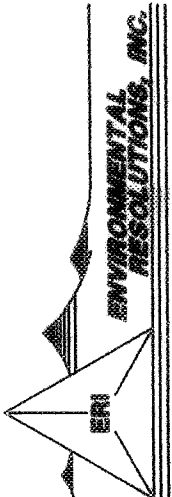


TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 1 of 5

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
SMW-3 -	03/08/95	10.25	0.00	--	<50	400	2,500	<0.5	<0.5	<0.5	<1.0
	06/06/95	10.23	0.00	--	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	09/07/95	10.89	0.00	--	<50	300	<750	<0.5	<0.5	<0.5	<1.0
	12/08/95	10.36	0.00	--	<50	300	<750	<0.5	<0.5	<0.5	<1.0
	04/01/96	10.07	0.00	--	34,000	4,000	2,300	6,400	42	2,100	3,000
	06/25/96	10.19	0.00	--	<50.0	320	<750	<0.500	<0.500	<0.500	<1.00
	09/27/96	11.12	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	03/28/97	10.19	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/30/97 ^{NP}	10.14	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/08/97 ^{NP}	10.85	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/19/97 ^{NP}	9.67	0.00	--	<50.0	521	<750	<0.500	<0.500	<0.500	<1.00
	3/16/98 ^{NP}	9.28	0.00	--	50.1	<250	<750	<0.500	<0.500	<0.500	<1.00
	6/26/98 ^{NP}	8.87	0.00	--	<50.0	500	<750	<0.500	<0.500	<0.500	<1.00
SMW-4 -	03/08/95	8.14	0.00	--	39,000	4,100	6,100	13,000	<250	2,400	6,200
	06/06/95	8.90	0.00	--	41,000	6,800	<750	9,400	44	2,700	4,800
	09/07/95	8.99	0.00	--	--	--	--	--	--	--	--
	12/08/95	7.56	0.00	--	40,000	1,600	920	8,100	67	2,600	3,600
	04/01/96	8.13	0.00	--	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	06/25/96	8.20	0.00	--	29,100	2,680	690	3,900	61.4	1,710	1,710
	09/27/96	8.62	0.00	--	20,600	2,460	<750	6,090	<0.500	2,060	1,730
	03/28/97	8.20	0.00	--	--	--	--	--	--	--	--
	06/30/97	8.06	0.00	--	--	--	--	--	--	--	--
	09/08/97	9.00	0.00	--	--	--	--	--	--	--	--
	12/19/97	9.41	0.00	--	--	--	--	--	--	--	--
	3/16/98	9.09	0.00	--	--	--	--	--	--	--	--
	6/26/98	8.76	Trace	--	--	--	--	--	--	--	--
MW-32A 20.70	03/08/95	11.29	0.00	9.69	21,000	2,300	2,300	6,800	1,700	990	2,900
	06/06/95	--	--	--	--	--	--	--	--	--	--
	09/07/95	11.27	--	9.43	20,000	2,600	1,600	4,200	470	790	2,000
	12/08/95	10.61	--	10.06	11,000	1,200	<750	1,600	88	420	910
	04/01/96	10.90	--	9.80	7,900	1,400	1,000	2,200	88	300	490
	06/25/96	10.98	--	9.72	7,600	1,260	<750	1,200	80.4	217	438
	09/27/96	11.37	--	9.61	7,060	1,040	<750	1,670	37.4	294	416
	03/28/97	11.26	--	9.72	--	--	--	--	--	--	--
	06/30/97	10.89	--	--	--	--	--	--	--	--	--
	09/08/97	11.67	0.00	9.31	--	--	--	--	--	--	--
	12/19/97	11.42	0.00	9.28	--	--	--	--	--	--	--
	3/16/98	11.30	0.00	9.40	--	--	--	--	--	--	--
	6/26/98	11.29	0.00	9.41	--	--	--	--	--	--	--
MW-33 20.75	03/08/95	11.16	0.00	9.73	4,900	1,400	2,000	660	<25	920	420
	06/06/95	--	--	--	--	--	--	--	--	--	--
	09/07/95	11.20	0.00	9.55	9,700	1,400	920	660	140	230	620
	12/08/95	--	--	--	13,000	1,900	1,800	800	240	280	760
	04/01/96	11.00	0.00	9.75	6,200	960	<750	630	33	130	270
	06/25/96	11.05	0.00	9.70	2,700	1,030	<750	230	24.6	46.5	61.1
	09/27/96	11.13	0.00	9.76	6,160	1,190	<750	1,190	237	86.3	272
	03/28/97	11.19	0.00	9.70	--	--	--	--	--	--	--
	06/30/97	10.66	0.00	10.23	--	--	--	--	--	--	--
	09/08/97	10.48	0.00	10.41	--	--	--	--	--	--	--
	12/19/97	--	--	--	--	--	--	--	--	--	--
	3/16/98	--	--	--	--	--	--	--	--	--	--
	6/26/98	11.18	0.00	9.57	--	--	--	--	--	--	--
MTC Method A Cleanup Level					1,000 ^a			5	40	30	20

Continued on Page 2.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 2 of 5

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW-34 21.42	03/08/95	11.62	0.00	10.08	8,200	1,100	480	2,400	1,500	250	1,300
	06/06/95	11.73	0.00	9.97	9,100	2,300	<750	4,200	1,000	330	1,200
	09/07/95	11.57	0.00	9.85	16,000	1,800	930	4,800	2,300	660	2,000
	12/08/95	10.92	0.00	10.50	68,000	2,900	1,600	12,000	9,200	1,200	5,600
	04/01/96	11.21	0.00	10.21	10,000	1,900	<750	5,500	880	620	1,200
	06/25/96	11.19	0.00	10.23	13,700	1,100	<750	4,100	1,110	395	1,740
	09/27/96	11.58	0.00	10.12	16,300	1,030	<750	5,010	2,520	641	1,310
	03/28/97	11.47	0.00	10.23	--	--	--	--	--	--	--
	06/30/97 ^{NP}	11.19	0.00	10.51	2,970	311	<750	1,930	15.7	271	631
	09/08/97 ^{NP}	11.74	0.00	9.96	3,390	466	<750	3,920	643	667	1,270
	12/19/97	--	--	--	--	--	--	--	--	--	--
	3/16/98	--	--	--	--	--	--	--	--	--	--
	6/26/98 ^{NP}	11.42	0.00	10.00	75,900	3,090	<750	13,400	11,100	2,310	9,080
	MW-35 20.10	03/08/95	10.67	0.00	9.60	2,600	1,200	1,300	400	<25	120
06/06/95		10.67	0.00	9.60	810	1,000	930	62	1.4	27	36
09/07/95		10.87	0.00	9.43	--	--	--	--	--	--	--
12/08/95		0.00	--	--	--	--	--	--	--	--	--
04/01/96		--	--	--	--	--	--	--	--	--	--
06/25/96		11.11	0.00	8.99	1,620	660	<750	68.2	1.11	26.7	17.6
09/27/96		10.64	0.00	9.63	880	524	<750	38.8	0.990	10.4	6.18
03/28/97 ^{NP}		11.28	0.00	8.99	1,370	333	<750	161	2.36	31.9	10.7
03/28/97		11.28	0.00	8.99	1,600	<250	<750	260	2.62	49.1	8.04
06/30/97 ^{NP}		10.19	0.00	10.08	1,940	<250	<750	348	<2.50	86.0	7.31
09/08/97 ^{NP}		10.86	0.00	9.41	4,200	<250	<750	1,460	16.2	231	68.2
12/19/97		--	--	--	--	--	--	--	--	--	--
3/16/98 ^{NP}		10.64	0.00	9.46	908	361	<750	410	4.24	<2.50	<5.00
6/26/98 ^{NP}		10.65	0.00	9.45	1,300	682	<750	600	<10.0	45.1	<20.0
MW-36 17.80	03/08/95	9.07	0.00	8.97	<50	580	1,200	2.6	<0.5	<0.5	<1.0
	06/06/95	7.92	0.00	10.12	<50	<250	<750	1.0	<0.5	<0.5	<1.0
	09/07/95	8.11	0.00	9.69	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	12/08/95	9.00	0.00	8.80	<50	610	1,200	1.1	<0.5	<0.5	<1.0
	04/01/96	9.00	0.00	8.80	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	06/25/96	8.97	0.00	--	<50.0	<250	<750	0.580	0.500	<0.500	<1.00
	09/27/96	7.53	0.00	10.51	<50.0	<250	<750	1.18	<0.500	<0.500	<1.00
	03/28/97	9.21	0.00	8.83	<50.0	<250	<750	0.810	<0.500	<0.500	<1.00
	06/30/97 ^{NP}	6.88	0.00	11.16	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/08/97 ^{NP}	9.21	0.00	8.83	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/19/97 ^{NP}	10.09	0.00	7.71	<50.0	<250	<750	0.606	<0.500	<0.500	<1.00
	3/16/98 ^{NP}	9.29	0.00	8.51	56.6	287	<750	<0.500	<0.500	<0.500	<1.00
	6/26/98 ^{NP}	8.47	0.00	9.33	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	MW-37 21.01	03/08/95	11.94	0.00	9.24	34	3,200	1,400	3,100	2,400	1,200
06/06/95		11.76	0.01	9.43	48	4,500	2,500	3,700	2,400	1,300	7,900
06/06/95		11.76	0.01	9.43	90	--	--	5,100	6,000	2,400	14,000
09/07/95		11.17	0.00	9.84	--	--	--	--	--	--	--
12/08/95		10.22	0.00	10.79	--	--	--	--	--	--	--
04/01/96		10.79	0.02	10.22	--	--	--	--	--	--	--
06/25/96		10.82	0.20	10.19	--	--	--	--	--	--	--
09/27/96		11.47	0.05	9.75	--	--	--	--	--	--	--
03/28/97 ^{NP}		11.14	0.25	10.40	60,100	7,870	788	1,530	2,180	1,660	7,440
03/28/97		11.14	0.25	10.40	297,000	45,100	<8,250	6,670	13,200	4,930	22,900
06/30/97		10.80	0.02	10.23	--	--	--	--	--	--	--
09/08/97		11.41	0.23	9.77	--	--	--	--	--	--	--
12/19/97		11.26	0.02	9.75	--	--	--	--	--	--	--
3/16/98		11.11	0.01	8.90	--	--	--	--	--	--	--
6/26/98	11.32	0.01	9.70	--	--	--	--	--	--	--	

MTCM Method A Cleanup Level 1,000^a 5 40 30 20
Continued on Page 3.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 3 of 5

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW-38 16.52	03/08/95	--	--	--	--	--	--	--	--	--	--
	06/06/95	--	--	--	--	--	--	--	--	--	--
	09/07/95	--	--	--	--	--	--	--	--	--	--
	12/08/95	--	--	--	--	--	--	--	--	--	--
	04/01/96	--	--	--	--	--	--	--	--	--	--
	06/25/96	--	--	--	--	--	--	--	--	--	--
	09/27/96	--	--	--	--	--	--	--	--	--	--
	03/28/97	9.23	0.00	7.60	<50	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/30/97	--	--	--	--	--	--	--	--	--	--
	09/08/97	--	--	--	--	--	--	--	--	--	--
	12/19/97	--	--	--	--	--	--	--	--	--	--
	3/16/98	--	--	--	--	--	--	--	--	--	--
	6/26/98	--	--	--	--	--	--	--	--	--	--
MW-40 20.89	03/08/95	10.98	0.00	10.14	960	2,600	2,600	11	<0.5	11	<1.0
	06/06/95	11.18	0.00	9.94	1,500	2,300	1,600	6.5	4.3	4.1	21
	09/07/95	11.08	0.00	9.81	650	13,000	65,000	11	0.91	0.57	<1.0
	12/08/95	10.30	0.00	10.59	500	1,400	4,000	2.7	3	<0.5	<1.0
	04/01/96	10.56	0.00	10.33	520	3,200	13,000	1.2	<0.5	0.55	<1.0
	06/25/96	10.69	0.00	10.20	500	2,700	8,400	<0.500	9.82	<0.500	<1.00
	09/27/96	10.95	0.00	10.17	602	3,550	9,800	0.604	41.1	0.525	<1.0
	03/28/97	10.92	0.00	10.20	--	--	--	--	--	--	--
	06/30/97	--	--	--	--	--	--	--	--	--	--
	09/08/97	--	--	--	--	--	--	--	--	--	--
	12/19/97 ^{NP}	11.11	0.00	9.78	325	3,250	12,500	<0.500	0.504	0.663	2.44
	3/16/98	--	--	--	--	--	--	--	--	--	--
	6/26/98	--	--	--	--	--	--	--	--	--	--
MW-41 27.00	03/08/95	14.72	--	12.48	<50	<250	<750	1.6	<0.5	<0.5	<1.0
	06/06/95	15.02	--	12.18	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	09/07/95	15.00	--	12.00	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	12/08/95	16.30	--	10.70	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	04/01/96	15.02	--	11.98	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	06/25/96	15.07	--	11.93	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/27/96	15.42	0.00	11.78	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	03/28/97	15.27	0.00	11.93	--	--	--	--	--	--	--
	06/30/97	--	--	--	--	--	--	--	--	--	--
	09/08/97	--	--	--	--	--	--	--	--	--	--
	12/19/97	--	--	--	--	--	--	--	--	--	--
	3/16/98	--	--	--	--	--	--	--	--	--	--
	6/26/98	--	--	--	--	--	--	--	--	--	--
MW-42 20.34	03/08/95	9.45	0.00	10.91	130	570	1,200	790	<25	<25	<50
	06/06/95	9.37	0.00	10.89	120	820	1,500	500	<0.56	<0.5	<1.0
	09/07/95	9.50	0.00	10.84	5,000	700	1,200	210	4.1	42	230
	12/08/95	8.95	0.00	11.39	200	1,300	1,900	380	<2.0	<2.0	<4.0
	04/01/96	9.03	0.00	11.31	180	650	<750	280	0.52	<0.5	<1.0
	06/25/96	9.07	0.00	11.27	150	720	<750	160	<0.500	<0.500	<1.00
	09/27/96	9.12	0.00	11.24	<250	534	<750	220	<2.50	<2.50	<5.00
	03/28/97	9.09	0.00	11.27	--	--	--	--	--	--	--
	06/30/97	8.92	0.00	11.44	--	--	--	--	--	--	--
	09/08/97	9.57	0.00	10.79	--	--	--	--	--	--	--
	12/19/97	--	--	--	--	--	--	--	--	--	--
	3/16/98	9.53	0.00	10.81	--	--	--	--	--	--	--
	6/26/98	9.51	0.00	10.83	--	--	--	--	--	--	--
MTC Method A Cleanup Level					1,000 ^d	5	40	30	20		

Continued on Page 4.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 4 of 5

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW-43 21.04	03/08/95	11.35	0.00	9.94	<50	950	2,400	28	<0.5	<0.5	<1.0
	06/06/95	11.45	0.00	9.84	<50	690	1,500	8.2	<0.5	<0.5	<1.0
	09/07/95	11.14	0.00	9.90	<50	<250	850	18	<0.5	<0.5	<1.0
	12/08/95	10.85	0.00	10.19	<50	950	3,100	67	<0.5	<0.5	<1.0
	04/01/96	10.98	0.00	10.06	<50	300	<750	4.5	<0.5	<0.5	<1.0
	06/25/96	11.06	0.00	9.98	<50.0	370	<750	2.57	<0.500	<0.500	<1.00
	09/27/96	11.33	0.00	9.96	<50.0	339	<750	4.40	<0.5	<0.500	<1.00
	03/28/97	11.13	0.00	9.98	<50.0	<250	<750	6.89	0.884	<0.500	2.47
	06/30/97 ^{NP}	7.08	0.00	14.21	<50.0	<250	<750	69.2	<0.500	<0.500	<1.00
	09/08/97 ^{NP}	11.46	0.00	9.83	83	<250	<750	88.6	<0.500	2.10	3.08
	12/19/97	--	--	--	--	--	--	--	--	--	--
	3/16/98 ^{NP}	11.09	0.00	9.95	76.3	408	<750	28.6	<0.500	<0.500	<1.00
	6/26/98 ^{NP}	11.26	0.00	9.78	<50.0	346	<750	63.6	<0.500	<0.500	<1.00
MW-44 18.73	03/08/95	9.44	0.00	10.46	<50	250	940	<0.5	<0.5	<0.5	<1.0
	06/06/95	8.28	0.00	10.62	<50	<250	620	<0.5	<0.5	<0.5	1.6
	09/07/95	7.94	0.00	10.79	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	12/08/95	8.09	0.00	10.64	<50	650	2,600	<0.5	<0.5	<0.5	<1.0
	04/01/96	7.98	0.00	10.75	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	06/25/96	7.90	0.00	10.83	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/27/96	8.28	0.00	10.59	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	03/28/97	8.07	0.00	10.83	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/30/97 ^{NP}	7.84	0.00	11.06	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/08/97 ^{NP}	8.65	0.00	10.25	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/19/97 ^{NP}	8.51	0.00	10.22	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	3/16/98 ^{NP}	8.43	0.00	10.30	60.0	310	<750	<0.500	<0.500	<0.500	<1.00
	6/26/98 ^{NP}	8.37	0.00	10.36	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
MW-46 16.91	03/08/95	8.00	0.00	8.91	<50	720	3,600	<0.5	<0.5	<0.5	<1.0
	06/06/95	7.30	0.00	10.01	<50	<250	1,400	<0.5	<0.5	<0.5	<1.0
	09/07/95	7.80	0.00	8.93	<50	710	6,600	<0.5	<0.5	<0.5	<1.0
	12/08/95	8.32	0.00	8.59	<50	1,400	14,000	<0.5	<0.5	<0.5	<1.0
	04/01/96	7.04	0.00	9.87	<50	<400	2,800	<0.5	<0.5	<0.5	<1.0
	06/25/96	7.85	0.00	9.06	<50.0	440	2,090	<0.500	<0.500	<0.500	<1.00
	09/27/96	7.57	0.00	9.74	<50.0	267	<750	0.518	<0.500	<0.500	<1.00
	03/28/97	7.25	0.00	10.06	<50.0	<250	<750	<0.500	1.25	<0.500	2.06
	06/30/97	7.12	0.00	10.19	--	--	--	--	--	--	--
	09/08/97	8.82	0.00	8.49	--	--	--	--	--	--	--
	12/19/97 ^{NP}	9.40	0.00	7.51	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	3/16/98	--	--	--	--	--	--	--	--	--	--
	6/26/98	--	--	--	--	--	--	--	--	--	--
MW-47 19.83	03/08/95	10.88	0.00	9.16	<50	330	1,600	6.3	<0.5	<0.5	<1.0
	06/06/95	10.91	0.00	9.13	70	280	700	16	0.59	<0.5	2.3
	09/07/95	10.76	0.00	9.07	<50	260	<750	1.7	<0.5	<0.5	<1.0
	12/08/95	10.40	0.00	9.43	740	880	2,000	<0.5	<0.5	<0.5	<1.0
	04/01/96	10.67	0.00	9.16	<50	<250	<750	4.4	<0.5	<0.5	<1.0
	06/25/96	10.71	0.00	9.12	110	400	<750	14.4	<0.500	<0.500	<1.00
	09/27/96	10.85	0.00	9.19	<50.0	<250	<750	4.34	<0.500	<0.500	<1.00
	03/28/97 ^{NP}	10.92	0.00	9.12	64.5	<250	<750	7.61	<0.500	<0.500	1.57
	03/28/97	10.92	0.00	9.12	177	<250	<750	62.6	<0.500	<0.500	<1.00
	06/30/97	--	--	--	--	--	--	--	--	--	--
	09/08/97	--	--	--	--	--	--	--	--	--	--
	12/19/97	--	--	--	--	--	--	--	--	--	--
	3/16/98	--	--	--	--	--	--	--	--	--	--
6/26/98 ^{NP}	10.78	0.00	9.05	<50.0	356	<750	27.3	<0.500	<0.500	<1.00	
						1,000 ^a	5	40	30	20	

MTCA Method A Cleanup Level

Continued on Page 5.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 5 of 5

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
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EXPLANATION:

Concentrations in ug/L (ppb).

Wellhead elevations taken from prior consultant's reports.

DTW = Depth to water in feet below top of casing except where noted in prior reports.

LPH = Liquid-phase petroleum hydrocarbon thickness in feet.

GW Elev. = Groundwater elevation relative to DTW data; corrected for LPH where applicable using a specific gravity of 0.85.

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

TPH-D and TPH-O = Total petroleum hydrocarbons as diesel and as oil (respectively) by Ecology Method WTPH-D (Extended).

B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes.

BTEX = Aromatic compounds by EPA Method 8020.

ND = Well not purged prior to sampling.

< = Less than the stated laboratory reporting limit.

- = Not analyzed or no data.

Shaded values equal or exceed MTCA Method A Cleanup Levels.

³ Total Petroleum Hydrocarbons

Data collected before 12/18/97 are taken from prior consultants.



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ERI 1921 Edmonds Drive SE Renton, WA 98055	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Sampled: 6/26/98 Received: 6/26/98 Reported: 7/14/98 14:55
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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-3	B806589-01	Water	6/26/98
MW-34	B806589-02	Water	6/26/98
MW-35	B806589-03	Water	6/26/98
MW-36	B806589-04	Water	6/26/98
MW-43	B806589-05	Water	6/26/98
MW-44	B806589-06	Water	6/26/98
MW-47	B806589-07	Water	6/26/98

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.*


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ERI 1921 Edmonds Drive SE Renton, WA 98055	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Sampled: 6/26/98 Received: 6/26/98 Reported: 7/14/98 14:55
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**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

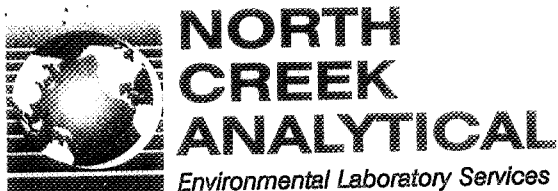
Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
								<u>Water</u>
<u>MW-3</u>				<u>B806589-01</u>				
Gasoline Range Hydrocarbons	0780029	7/6/98	7/7/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		112	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		102	"	
								<u>Water</u>
<u>MW-34</u>				<u>B806589-02</u>				
Gasoline Range Hydrocarbons	0780029	7/6/98	7/12/98		25000	76900	ug/l	
Benzene	"	"	"		250	13400	"	
Toluene	"	"	"		250	11100	"	
Ethylbenzene	"	"	"		250	2310	"	
Xylenes (total)	"	"	"		500	9080	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		110	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		103	"	
								<u>Water</u>
<u>MW-35</u>				<u>B806589-03</u>				
Gasoline Range Hydrocarbons	0780029	7/6/98	7/12/98		1000	1300	ug/l	
Benzene	"	"	"		10.0	600	"	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	45.1	"	
Xylenes (total)	"	"	"		20.0	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		111	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		113	"	
								<u>Water</u>
<u>MW-36</u>				<u>B806589-04</u>				
Gasoline Range Hydrocarbons	0780029	7/6/98	7/12/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		108	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		102	"	
								<u>Water</u>
<u>MW-43</u>				<u>B806589-05</u>				
Gasoline Range Hydrocarbons	0780029	7/6/98	7/7/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	69.6	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.


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ERI	Project: TOSCO #5353	Sampled: 6/26/98
1921 Edmonds Drive SE	Project Number: 31020	Received: 6/26/98
Renton, WA 98055	Project Manager: John Meyer	Reported: 7/14/98 14:55

**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>B806589-05</u>			<u>Water</u>	
<u>MW-43 (continued)</u>								
Toluene	0780029	7/6/98	7/7/98		0.500	ND	ug/l	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		109	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		102	"	
				<u>B806589-06</u>			<u>Water</u>	
<u>MW-44</u>								
Gasoline Range Hydrocarbons	0780029	7/6/98	7/7/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		107	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		105	"	
				<u>B806589-07</u>			<u>Water</u>	
<u>MW-47</u>								
Gasoline Range Hydrocarbons	0780029	7/6/98	7/7/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	27.3	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		110	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		105	"	


 Matthew Essig, Project Manager



NORTH CREEK ANALYTICAL

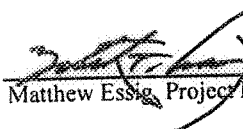
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ERI 1921 Edmonds Drive SE Renton, WA 98055	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Sampled: 6/26/98 Received: 6/26/98 Reported: 7/14/98 14:55
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Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended)
 North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
								<u>B806589-01</u>
<u>MW-3</u> Diesel Range Hydrocarbons	0780062	7/2/98	7/6/98		0.250	0.500	Water mg/l	
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		77.2	%	
								<u>B806589-02</u>
<u>MW-34</u> Diesel Range Hydrocarbons	0780062	7/2/98	7/6/98		0.250	3.09	Water mg/l	
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: Octacosane	"	"	"	50.0-150		103	%	1
								<u>B806589-03</u>
<u>MW-35</u> Diesel Range Hydrocarbons	0780062	7/2/98	7/6/98		0.250	0.682	Water mg/l	
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		87.1	%	
								<u>B806589-04</u>
<u>MW-36</u> Diesel Range Hydrocarbons	0780062	7/2/98	7/6/98		0.250	ND	Water mg/l	
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		85.5	%	
								<u>B806589-05</u>
<u>MW-43</u> Diesel Range Hydrocarbons	0780062	7/2/98	7/6/98		0.250	0.346	Water mg/l	
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		75.2	%	
								<u>B806589-06</u>
<u>MW-44</u> Diesel Range Hydrocarbons	0780062	7/2/98	7/6/98		0.250	ND	Water mg/l	
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		68.8	%	
								<u>B806589-07</u>
<u>MW-47</u> Diesel Range Hydrocarbons	0780062	7/2/98	7/6/98		0.250	0.356	Water mg/l	
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		86.2	%	


 Matthew Essig, Project Manager



NORTH CREEK ANALYTICAL

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ERI 1921 Edmonds Drive SE Renton, WA 98055	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Sampled: 6/26/98 Received: 6/26/98 Reported: 7/14/98 14:55
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Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0780029						Extraction Method: EPA 5030B (P/T)				
Blank						0780029-BLK1				
Gasoline Range Hydrocarbons	7/6/98			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB (FID)	"	48.0		54.2	"	50.0-150	113			
Surrogate: 4-BFB (PID)	"	48.0		49.8	"	50.0-150	104			
LCS						0780029-BS1				
Gasoline Range Hydrocarbons	7/6/98	500		485	ug/l	70.0-130	97.0			
Surrogate: 4-BFB (FID)	"	48.0		56.8	"	50.0-150	118			
Duplicate						0780029-DUP1 B807065-04				
Gasoline Range Hydrocarbons	7/6/98		23800	22400	ug/l			25.0	6.06	
Surrogate: 4-BFB (FID)	"	48.0		59.4	"	50.0-150	124			
Duplicate						0780029-DUP2 B806585-02				
Gasoline Range Hydrocarbons	7/6/98		345	429	ug/l			25.0	21.7	
Surrogate: 4-BFB (FID)	"	48.0		66.8	"	50.0-150	139			
Matrix Spike						0780029-MS1 B806585-04				
Benzene	7/12/98	10.0	ND	9.78	ug/l	70.0-130	97.8			
Toluene	"	10.0	ND	9.70	"	70.0-130	97.0			
Ethylbenzene	"	10.0	ND	9.35	"	70.0-130	93.5			
Xylenes (total)	"	30.0	ND	28.7	"	70.0-130	95.7			
Surrogate: 4-BFB (PID)	"	48.0		49.6	"	50.0-150	103			
Matrix Spike Dup						0780029-MSD1 B806585-04				
Benzene	7/6/98	10.0	ND	10.1	ug/l	70.0-130	101	15.0	3.22	
Toluene	"	10.0	ND	9.75	"	70.0-130	97.5	15.0	0.514	
Ethylbenzene	"	10.0	ND	9.56	"	70.0-130	95.6	15.0	2.22	
Xylenes (total)	"	30.0	ND	29.1	"	70.0-130	97.0	15.0	1.35	
Surrogate: 4-BFB (PID)	"	48.0		50.4	"	50.0-150	105			

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Matthew Essig, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



NORTH CREEK ANALYTICAL

Environmental Laboratory Services

BOTHELL * (425) 420-9200 * FAX 420-9210
 SPOKANE * (509) 924-9200 * FAX 924-9290
 PORTLAND * (503) 906-9200 * FAX 906-9210

ERI 1921 Edmonds Drive SE Renton, WA 98055	Project: TOSCO #5353	Sampled: 6/26/98
	Project Number: 31020	Received: 6/26/98
	Project Manager: John Meyer	Reported: 7/14/98 14:55

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended)/Quality Control
North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<u>Batch: 0780062</u>		<u>Date Prepared: 7/2/98</u>		<u>Extraction Method: EPA 3520C/600 Series</u>						
<u>Blank</u>		<u>0780062-BLK1</u>								
Diesel Range Hydrocarbons	7/6/98			ND	mg/l	0.250				
Heavy Oil Range Hydrocarbons	"			ND	"	0.750				
Surrogate: 2-FBP	"	0.330		0.272	"	50.0-150	82.4			
<u>LCS</u>		<u>0780062-BS1</u>								
Diesel Range Hydrocarbons	7/6/98	2.00		1.64	mg/l	60.0-140	82.0			
Surrogate: 2-FBP	"	0.330		0.279	"	50.0-150	84.5			
<u>Duplicate</u>		<u>0780062-DUP1</u>		<u>B806589-01</u>						
Diesel Range Hydrocarbons	7/6/98		0.500	0.454	mg/l			44.0	9.64	
Heavy Oil Range Hydrocarbons	"		ND	ND	"			44.0		
Surrogate: 2-FBP	"	0.622		0.536	"	50.0-150	86.2			


 Matthew Essig, Project Manager

ERI 1921 Edmonds Drive SE Renton, WA 98055	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Sampled: 6/26/98 Received: 6/26/98 Reported: 7/14/98 14:55
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Notes and Definitions

#	Note
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- | | |
|--------|---|
| 1 | Due to interference from coeluting organic compounds with the primary surrogate, results of the secondary surrogate have been used to control the analysis. |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| Recov. | Recovery |
| RPD | Relative Percent Difference |

UNOCAL CHAIN OF CUSTODY REPORT

B806589

UNOCAL INFORMATION

Facility Number: 5357 Wenatche
Site Address: 600 Wendlake Ave N
City, State, ZIP: Wenatche, WA
Site Release Number: 8100/7953532571/500/999
Unocal Manager: 8100/110000/2553553

CERT INFO: (check one) Evaluation Remediation
 Detection Demolition Closure Miscellaneous

CONSULTANT INFORMATION

Firm: ERA Project# 31020
Address: 1921 Edwards Dr SE
Renton, WA 98055
Phone: (206) 227-0280 Fax: 10225
Project Manager: John Major
Sample Collection by: John Major

Chain of Custody Record #:

Quality Assurance Data Level:
A: Standard Summary
B: Standard + Chromatograms

Laboratory Turnaround Days:
1 2 3 4 5 6 7 8 9 10

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W.S.O)	# OF CON-TAINERS
1. S MW-3	6/26/98	N	3
2. MW-34			
3. MW-35			
4. MW-36			
5. MW-43			
6. MW-44			
7. MW-47			
8.			
9.			
10.			

TPH-HCID	TPH-Gas	BTEX	EPA 8021 Mod	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel-Exl	Extended	w/SG Cleanup	Halogen Volatiles	EPA 8021	Pesticides/PCBs	or PCBs Only	C/CMS Volatiles	EPA 8260	G/CMS Semi Vols	EPA 8270	PAHs	8270 SIM or 8310	Lead:	Total or Dissolved	TCLP or RCRA	Metals (8)	
				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

NCA SAMPLE NUMBER
B806589-01
-02
-03
-04
-05
-06
-07
-08

Relinquished by: [Signature]
Firm: ERA
Date & Time: 6/26/98

Received by: [Signature]
Firm: NCA
Date & Time: 6/26/98 17:20

Final Report Approval

Were all requested results provided? Yes No Define

Were results within requested turnaround? Yes No "No" on back

Final Approval Signature: _____ Date: _____