

DATE: February 8, 2001

**TOSCO MARKETING COMPANY
GROUNDWATER MONITORING REPORT**

Site No.: 5353 Address: 600 Westlake Avenue North, Seattle, WA
Tosco Project Manager: Timothy D. Johnson
Consultant /Contact Person: Environmental Resolutions, Inc./John Meyer
Primary Agency/Regulatory ID No.: Washington State Department of Ecology

WORK PERFORMED THIS QUARTER(S) [Fourth - 2000]:

- Monitored and sampled 7 groundwater monitoring wells without purging

WORK PROPOSED FOR NEXT QUARTER [Second - 2001]:

- Monitor 11 wells and sample 6 wells without purging

RECEIVED

MAR 21 2001

ENVIRONMENTAL DEPARTMENT
NORTHWEST REGION

SUMMARY:

Frequency of Sampling Events:	<u>Semiannually</u>	(Quarterly, etc.)
Approximate Depth to Groundwater:	<u>9 to 10 ft</u>	(Measured Feet)
Groundwater Gradient:	<u>Northerly and Westerly</u>	(Direction)
	<u>0.006 ft/ft</u>	(Magnitude)
Maximum TPH-G/Benzene Concentrations:	<u>7,010/4,430</u>	(ppb)
Measurable Free Product Detected:	<u>0.50 ft./MW-37</u>	(Yes - ID wells(s)/No)
Free Product Recovered This Quarter:	<u>None</u>	(gallons)
Cumulative Free Product Recovered to Date:	<u>46,632</u>	(gallons)
Bulk Soil Removed This Quarter:	<u>None</u>	(cubic yards)
Water Wells or Surface Waters w/in a 2000'	<u>Lake Union</u>	(Distance &
Radius and Respective Direction:	<u>400 feet north</u>	Direction)
Current Remedial Action:	<u>VES</u>	(SVE/AS/P&T etc.)
Permits for Discharge:	<u>PSAPCA No. 4397</u>	(NPDES, POTW, etc.)


DISCUSSION:

- 2 of 6 wells sampled contained analyte concentrations exceeding MTCA Method A Cleanup Levels.
- The sample collected from MW-46 is identified as MW-9 on the chain of custody and official laboratory report.

ATTACHMENTS:

Plate P-1 - Groundwater Sample Analyses Map, 12/19/00
Table 1 - Groundwater Analytical Results
Laboratory Reports and Chain of Custody Records
Field Data Records

Prepared By:


James S. Matthiessen
Environmental Resolutions, Inc.

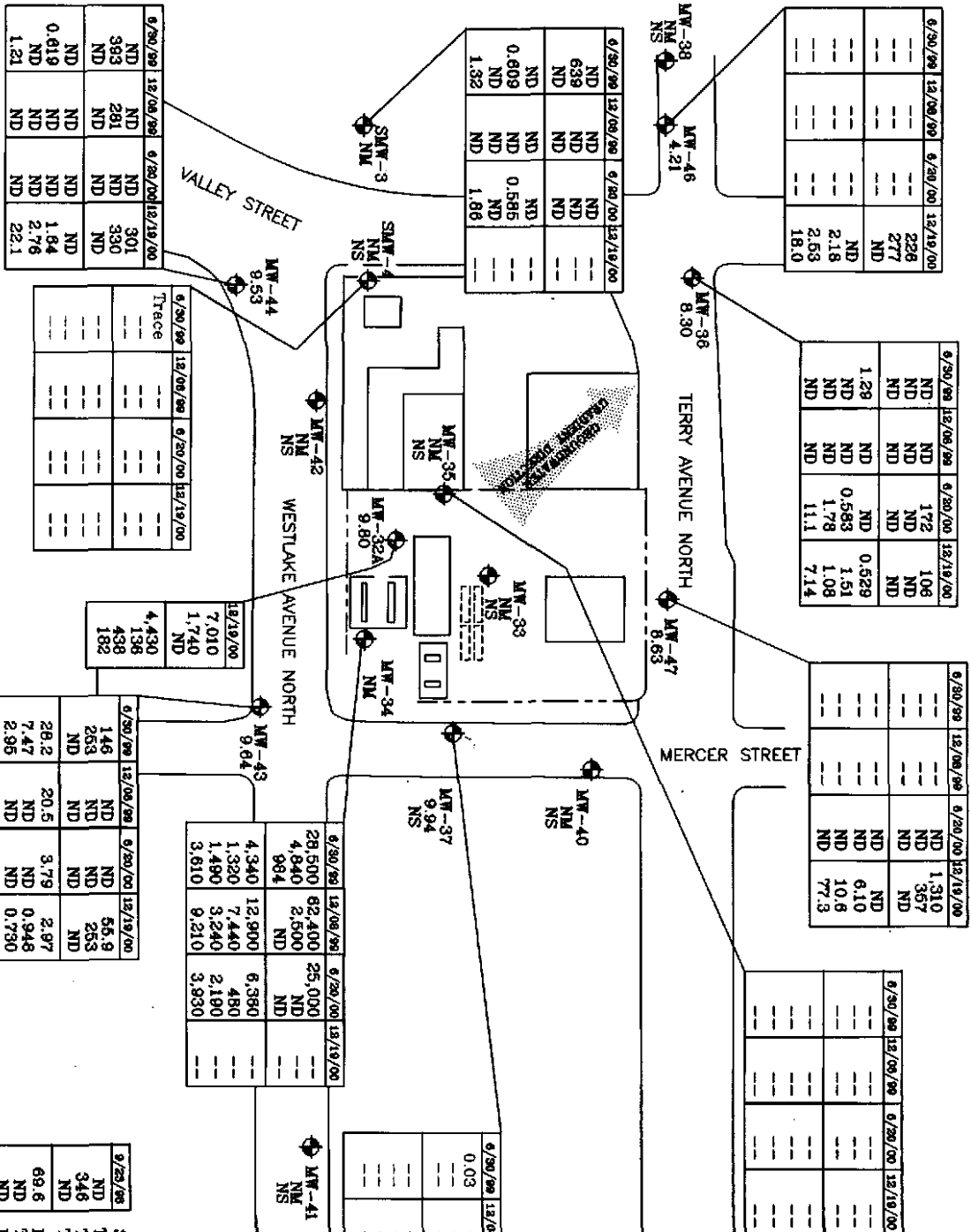
cc: Ecology NW Region
GeoEngineers, Dave Cook



GROUNDWATER SAMPLE ANALYSES MAP - 12/19/00
 TOSCO FACILITY 5353
 600 Westlake Avenue North
 Seattle, Washington

FN 5363004

SOURCE: Modified by
 from sample provided by
 Toso Manufacturing Company

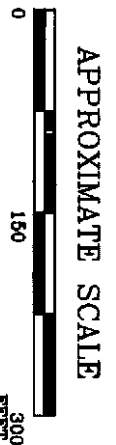


9/30/99	12/09/99	6/29/00	12/19/00
ND	ND	ND	301
383	281	ND	330
ND	ND	ND	ND
0.619	ND	ND	1.84
1.21	ND	ND	2.76
ND	ND	ND	22.1

Laboratory Results
 in ug/L (ppb)

9/30/99	12/09/99	6/29/00	12/19/00
28,500	82,400	25,000	---
4,840	2,500	ND	---
984	ND	---	---
4,340	12,900	6,380	---
1,320	7,440	480	---
1,490	3,240	2,180	---
3,610	9,210	3,930	---

9/30/99	12/09/99	6/29/00	12/19/00
0.03	---	---	0.50
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
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EXPLANATION

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

PROJECT NO.

31020

PLATE

P-1

JMS: 03/08/01

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 1 of 6

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
	9/23/98 ^{NP}	9.88	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/17/98 ^{NP}	9.22	0.00	--	<50.0	293	<750	<0.500	<0.500	<0.500	<1.00
	3/31/99 ^{NP}	9.01	0.00	--	<50.0	360	<750	<0.500	<0.500	0.526	4.97
	6/30/99 ^{NP}	9.55	0.00	--	<50.0	639	<750	<0.500	0.609	<0.500	1.32
12/08/99 ^{NP}	8.75	0.00	--	<50.0	<484	<1,450	<0.500	<0.500	<0.500	<1.00	
06/20/00 ^{NP}	8.89	0.00	--	<50.0	<250	<750	<0.500	0.585	<0.500	1.86	
12/19/00	--	--	--	--	--	--	--	--	--	--	
SMW-4 --	03/08/95	8.14	0.00	--	39,000	4,100	5,100	13,000	<250	2,400	8,200
	06/06/95	8.90	0.00	--	41,000	5,500	<750	9,400	44	2,700	4,900
	09/07/95	8.99	0.00	--	--	--	--	--	--	--	--
	12/08/95	7.56	0.00	--	40,000	1,500	920	8,100	57	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	--	28,100	2,680	630	3,900	81.4	1,710	1,710
	09/27/96	8.62	0.00	--	28,600	2,480	<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	0.04	--	--	--	--	--	--	--	--
	03/16/98	9.09	0.00	--	--	--	--	--	--	--	--
	06/26/98	8.76	Trace	--	--	--	--	--	--	--	--
	09/23/98	9.96	0.05	--	--	--	--	--	--	--	--
	12/17/98	10.22	Trace	--	--	--	--	--	--	--	--
	03/31/99	8.70	Trace	--	--	--	--	--	--	--	--
	06/30/99	8.20	Trace	--	--	--	--	--	--	--	--
12/08/99		Not Accessible	--	--	--	--	--	--	--	--	
06/20/00		Not Accessible	--	--	--	--	--	--	--	--	
12/19/00		Not Accessible	--	--	--	--	--	--	--	--	
MW-32A 20.70	03/08/95	11.29	0.00	9.69	21,000	2,300	2,300	5,800	1,700	990	2,900
	06/06/95	--	--	--	--	--	--	--	--	--	--
	09/07/95	11.27	--	9.43	20,000	2,500	1,600	4,200	470	730	2,000
	12/08/95	10.61	--	10.06	11,000	1,200	<750	1,600	86	420	910
	04/01/96	10.90	--	9.80	7,900	1,400	1,000	2,200	58	300	490
	06/25/96	10.98	--	9.72	7,500	1,250	<750	1,200	60.4	217	435
	09/27/96	11.37	--	9.61	7,050	1,040	<750	1,570	37.4	264	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	--	--	--	--	--	--	--
	03/16/98	11.30	0.00	9.40	--	--	--	--	--	--	--
	06/26/98	11.29	0.00	9.41	--	--	--	--	--	--	--
	09/23/98	11.97	0.00	8.73	--	--	--	--	--	--	--
	12/17/98	11.09	0.00	9.61	--	--	--	--	--	--	--
	03/31/99	10.47	0.00	10.23	--	--	--	--	--	--	--
	06/30/99	9.60	0.00	11.10	--	--	--	--	--	--	--
12/08/99	11.07	0.00	9.63	--	--	--	--	--	--	--	
06/20/00	11.40	0.00	9.30	--	--	--	--	--	--	--	
12/19/00 ^{NP}	10.90	0.00	9.80	7,010	1,740	<750	4,430	136	438	182	
MTCA Method A Cleanup Level					1,000 ^d		5	40	30	20	

Continued on Page 2.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
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Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW-33 20.75	03/08/95	11.16	0.00	9.73	4,900	1,400	2,000	650	<25	320	420
	06/06/95	--	--	--	--	--	--	--	--	--	--
	09/07/95	11.20	0.00	9.55	9,700	1,400	820	550	140	230	820
	12/08/95	--	--	--	13,000	1,900	1,800	800	240	280	760
	04/01/96	11.00	0.00	9.75	5,200	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	5,150	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	--	--	--	--	--	--	--	--	--	--
	03/16/98	--	--	--	--	--	--	--	--	--	--
	06/26/98	11.18	0.00	9.57	--	--	--	--	--	--	--
	09/23/98	11.90	0.00	8.85	--	--	--	--	--	--	--
	12/17/98	11.03	0.00	9.72	--	--	--	--	--	--	--
	03/31/99	10.38	0.00	10.37	--	--	--	--	--	--	--
	06/30/99	9.52	0.00	11.23	--	--	--	--	--	--	--
12/08/99	10.97	0.00	9.78	--	--	--	--	--	--	--	
06/20/00	11.33	0.00	9.42	--	--	--	--	--	--	--	
12/19/00	Not Accessible		--	--	--	--	--	--	--	--	--
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	18,000	1,800	930	4,800	2,300	560	2,000
	12/08/95	10.92	0.00	10.50	68,000	2,900	1,600	12,000	9,200	1,200	5,500
	04/01/96	11.21	0.00	10.21	10,000	1,900	<750	5,500	580	520	1,200
	06/25/96	11.19	0.00	10.23	13,700	1,180	<750	4,190	1,110	393	1,740
	09/27/96	11.58	0.00	10.12	16,300	1,030	<750	5,010	2,520	541	1,310
	03/28/97	11.47	0.00	10.23	--	--	--	--	--	--	--
	06/30/97 ^{NR}	11.19	0.00	10.51	2,970	311	<750	1,930	15.7	271	531
	09/08/97 ^{NR}	11.74	0.00	9.96	8,390	455	<750	3,920	645	567	1,270
	12/19/97	--	--	--	--	--	--	--	--	--	--
	03/16/98	--	--	--	--	--	--	--	--	--	--
	6/26/98 ^{NR}	11.42	0.00	10.00	76,900	3,090	<750	13,400	11,100	2,310	9,080
	9/23/98 ^{NR}	12.23	0.00	9.19	9,040	3,000	799	3,540	243	636	1,650
	12/17/98 ^{NR}	11.35	0.00	10.07	80,900	5,470	1,380	14,200	10,800	3,110	11,800
	3/31/99 ^{NR}	10.85	0.00	10.57	33,400	1,910	<750	5,970	1,740	1,400	3,820
	6/30/99 ^{NR}	10.18	0.00	11.24	28,500	4,840	984	4,340	1,320	1,490	3,610
12/08/99 ^{NR}	11.33	0.00	10.09	62,400	2,500	<1,360	12,900	7,440	3,240	9,210	
06/20/00 ^{NR}	11.68	0.00	9.74	25,000	<250	<750	6,360	480	2,190	3,930	
12/19/00	--	--	--	--	--	--	--	--	--	--	
MW-35 20.10	03/08/95	10.67	0.00	9.60	2,600	1,200	1,300	400	<25	120	83
	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	850	<750	68.2	1.11	26.7	17.6
	09/27/96	10.64	0.00	9.63	959	524	<750	38.8	0.990	10.4	6.18
	03/28/97 ^{NR}	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	1,800	<250	<750	250	2.62	49.1	8.04
	06/30/97 ^{NR}	10.19	0.00	10.08	1,900	<250	<750	348	<2.50	85.0	7.31
	09/08/97 ^{NR}	10.86	0.00	9.41	4,200	<250	<750	1,460	16.2	231	68.2
	12/19/97	--	--	--	--	--	--	--	--	--	--
	3/16/98 ^{NR}	10.64	0.00	9.46	905	361	<750	410	4.24	<2.50	<5.00
	6/26/98 ^{NR}	10.65	0.00	9.45	1,300	682	<750	600	<10.0	45.1	<20.0
	9/23/98 ^{NR}	11.38	0.00	8.72	665	659	<750	243	<2.50	<2.50	<5.00
	12/17/98 ^{NR}	10.49	0.00	9.61	699	572	<750	402	<2.50	10.8	9.99
	03/31/99	Obstructed by vehicle		--	--	--	--	--	--	--	--
06/30/99	Obstructed by vehicle		--	--	--	--	--	--	--	--	--
12/08/99	Obstructed by vehicle		--	--	--	--	--	--	--	--	--
06/20/00	Obstructed by vehicle		--	--	--	--	--	--	--	--	--
12/19/00	Obstructed by vehicle		--	--	--	--	--	--	--	--	--
MTCA 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 6

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW-36 17.80	03/08/95	9.07	0.00	8.97	<50	560	1,200	2.8	<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	510	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	9.51	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
	9/23/98 ^{NP}	9.89	0.00	7.91	<50.0	<250	<750	0.737	<0.500	<0.500	1.13
	12/17/98 ^{NP}	10.00	0.00	7.80	<50.0	288	<750	0.533	<0.500	<0.500	<1.00
	3/31/99 ^{NP}	8.96	0.00	8.84	<50.0	321	<750	0.759	<0.500	<0.500	<1.00
	6/30/99 ^{NP}	8.44	0.00	9.36	<50.0	<250	<750	1.29	<0.500	<0.500	<1.00
12/08/99 ^{NP}	10.05	0.00	7.75	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	
06/20/00 ^{NP}	8.47	0.00	9.33	172	<250	<750	<0.500	0.583	1.78	11.1	
12/19/00 ^{NP}	9.50	0.00	8.30	106	<250	<750	0.529	1.51	1.08	7.14	
MW-37 21.01	03/08/95	11.94	0.00	9.24	34	3,200	1,400	3,100	2,400	1,200	6,700
	06/06/95	11.76	0.01	9.43	45	4,800	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	7,570	789	1,530	2,180	1,650	7,440
	03/28/97	11.14	0.25	10.40	297,000	45,100	<8,250	6,570	13,200	4,930	22,800
	06/30/97	10.80	0.02	10.23	--	--	--	--	--	--	--
	09/08/97	11.41	0.23	9.77	--	--	--	--	--	--	--
	12/19/97	11.28	0.02	9.75	--	--	--	--	--	--	--
	03/16/98	11.11	0.01	9.91	--	--	--	--	--	--	--
	06/26/98	11.32	0.01	9.70	--	--	--	--	--	--	--
	09/23/98	12.01	0.03	9.03	--	--	--	--	--	--	--
	12/17/98	11.00	Trace	10.01	--	--	--	--	--	--	--
03/31/99	--	Trace	--	--	--	--	--	--	--	--	
06/30/99	Dry	0.3	--	--	--	--	--	--	--	--	
12/08/99	11.11	--	9.90	--	--	--	--	--	--	--	
06/20/00	11.50	--	9.51	--	--	--	--	--	--	--	
12/19/00	11.50	0.50	9.94	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	--	--
	03/16/98	--	--	--	--	--	--	--	--	--	--
	06/26/98	--	--	--	--	--	--	--	--	--	--
09/23/98	--	--	--	--	--	--	--	--	--	--	
12/17/98	--	--	--	--	--	--	--	--	--	--	
03/31/99	--	--	--	--	--	--	--	--	--	--	
06/30/99	--	--	--	--	--	--	--	--	--	--	
12/08/99	--	--	--	--	--	--	--	--	--	--	
06/20/00	--	--	--	--	--	--	--	--	--	--	
12/19/00	--	--	--	--	--	--	--	--	--	--	

MTCA Method A Cleanup Level 1,000^a 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 6

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW-40 20.89	03/08/95	10.98	0.00	10.14	980	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	6.8	4.3	4.1	21
	09/07/95	11.08	0.00	9.81	650	13,000	66,000	11	0.91	0.57	<1.0
	12/08/95	10.30	0.00	10.59	500	1,400	4,800	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	8,460	<0.500	9.82	<0.500	<1.00
	09/27/96	10.95	0.00	10.17	602	3,550	9,860	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 ^M	11.11	0.00	9.78	325	3,280	12,600	<0.500	0.504	0.663	2.44
	03/16/98	--	--	--	--	--	--	--	--	--	--
	06/26/98	--	--	--	--	--	--	--	--	--	--
	09/23/98	--	--	--	--	--	--	--	--	--	--
	12/17/98 ^M	10.86	0.00	10.03	384	2,840	9,620	<0.500	<0.500	<0.500	<1.00
	03/31/99	--	--	--	--	--	--	--	--	--	--
	06/30/99	--	--	--	--	--	--	--	--	--	--
	12/08/99	--	--	--	--	--	--	--	--	--	--
	06/20/00	--	--	--	--	--	--	--	--	--	--
	12/09/00	--	--	--	--	--	--	--	--	--	--
12/19/00	--	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	--	--
	03/16/98	--	--	--	--	--	--	--	--	--	--
	06/26/98	--	--	--	--	--	--	--	--	--	--
	09/23/98	--	--	--	--	--	--	--	--	--	--
	12/17/98	--	--	--	--	--	--	--	--	--	--
	03/31/99	--	--	--	--	--	--	--	--	--	--
	06/30/99	--	--	--	--	--	--	--	--	--	--
12/08/99	--	--	--	--	--	--	--	--	--	--	
06/20/00	--	--	--	--	--	--	--	--	--	--	
12/19/00	--	--	--	--	--	--	--	--	--	--	
MW-42 20.34	03/08/95	9.45	0.00	10.91	130	670	1,200	790	<25	<25	<50
	06/06/95	9.37	0.00	10.89	120	920	1,500	500	<0.56	<0.5	<1.0
	09/07/95	9.50	0.00	10.84	3,000	780	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	150	<0.500	<0.500	<1.00
	09/27/96	9.12	0.00	11.24	<250	534	<750	228	<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	--	--	--	--	--	--	--	--	--	--
	03/16/98	9.53	0.00	10.81	--	--	--	--	--	--	--
	06/26/98	9.51	0.00	10.83	--	--	--	--	--	--	--
	09/23/98	9.96	0.00	10.38	--	--	--	--	--	--	--
	12/17/98	9.10	0.00	11.24	--	--	--	--	--	--	--
	03/31/99	9.00	0.00	11.34	--	--	--	--	--	--	--
	06/30/99	8.60	0.00	11.74	--	--	--	--	--	--	--
12/08/99	8.00	0.00	12.34	--	--	--	--	--	--	--	
06/20/00	--	--	--	--	--	--	--	--	--	--	
12/19/00	--	--	--	--	--	--	--	--	--	--	
MTCA Method A Cleanup Level					1,000 ^a	5	40	30	20		

Continued on page 5.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 5 of 6

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	650	2,400	25	<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	10	<0.5	<0.5	<1.0
	12/08/95	10.85	0.00	10.19	<50	960	3,100	37	<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	5.89	0.884	<0.500	2.47
	06/30/97 ^{NP}	7.08	0.00	14.21	<50.0	<250	<750	59.2	<0.500	<0.500	<1.00
	09/08/97 ^{NP}	11.46	0.00	9.83	83	<250	<750	35.5	<0.500	2.10	3.08
	12/19/97	--	--	--	--	--	--	--	--	--	--
	3/16/98 ^{NP}	11.09	0.00	9.95	76.3	408	<750	26.5	<0.500	<0.500	<1.00
	6/26/98 ^{NP}	11.26	0.00	9.78	<50.0	346	<750	69.6	<0.500	<0.500	<1.00
	9/23/98 ^{NP}	11.75	0.00	9.29	<50.0	267	<750	9.05	<0.500	<0.500	<1.00
	12/17/98 ^{NP}	11.07	0.00	9.97	<50.0	<250	<750	33.0	<0.500	<0.500	<1.00
	3/31/99 ^{NP}	10.97	0.00	10.07	<50.0	267	<750	9.84	<0.500	0.782	2.47
	6/30/99 ^{NP}	9.97	0.00	11.07	146	253	<750	28.2	7.47	2.95	17.5
	12/08/99 ^{NP}	11.06	0.00	9.98	<50.0	<250	<750	20.5	<0.500	<0.500	<1.00
06/20/00 ^{NP}	11.40	0.00	9.64	<50.0	<250	<750	3.79	<0.500	<0.500	<1.00	
12/19/00 ^{NP}	11.40	0.00	9.64	55.9	253	<749	2.97	0.948	0.730	4.78	
MW-44 18.73	03/08/95	9.44	0.00	10.46	<50	290	940	<0.5	<0.5	<0.5	<1.0
	06/06/95	8.28	0.00	10.62	<50	<250	820	<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	520	2,500	<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
	9/23/98 ^{NP}	9.30	0.00	9.43	<50.0	343	<750	<0.500	<0.500	<0.500	<1.00
	12/17/98 ^{NP}	8.10	0.00	10.63	<50.0	271	<750	<0.500	<0.500	<0.500	<1.00
	3/31/99 ^{NP}	8.18	0.00	10.55	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	6/30/99 ^{NP}	8.03	0.00	10.70	<50.0	393	<750	<0.500	0.619	<0.500	1.21
	12/08/99 ^{NP}	8.52	0.00	10.21	<50.0	281	<750	<0.500	<0.500	<0.500	<1.00
06/20/00 ^{NP}	9.53	0.00	9.20	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	
12/19/00 ^{NP}	9.20	0.00	9.53	301	330	<750	<0.500	1.64	2.76	22.1	
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	5,600	<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	<1.00
	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
	03/16/98	--	--	--	--	--	--	--	--	--	--
	06/26/98	--	--	--	--	--	--	--	--	--	--
	09/23/98	--	--	--	--	--	--	--	--	--	--
	12/17/98 ^{NP}	9.20	0.00	7.71	<50.0	354	<750	<0.500	<0.500	<0.500	<1.00
	03/31/99	--	--	--	--	--	--	--	--	--	--
	06/30/99	--	--	--	--	--	--	--	--	--	--
	12/08/99	--	--	--	--	--	--	--	--	--	--
06/20/00	--	--	--	--	--	--	--	--	--	--	
12/19/00*	12.70	--	4.21	226	277	<750	<0.500	2.18	2.53	18.0	
MTCA Method A Cleanup Level						1,000 ^a	5	40	30	20	

Continued on page 6.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 6 of 6

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW-47	03/08/95	10.88	0.00	9.16	<50	330	1,600	5.3	<0.5	<0.5	<1.0
19.83	06/06/95	10.91	0.00	9.13	70	390	780	15	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	580	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	52.6	<0.500	<0.500	<1.00
	06/30/97	--	--	--	--	--	--	--	--	--	--
	09/08/97	--	--	--	--	--	--	--	--	--	--
	12/19/97	--	--	--	--	--	--	--	--	--	--
	03/16/98	--	--	--	--	--	--	--	--	--	--
	6/26/98 ^{NP}	10.78	0.00	9.05	<50.0	356	<750	27.3	<0.500	<0.500	<1.00
	09/23/98	--	--	--	--	--	--	--	--	--	--
	12/17/98 ^{NP}	10.61	0.00	9.22	<50.0	<250	<750	3.34	<0.500	<0.500	1.12
	03/31/99	9.65	0.00	10.18	--	--	--	--	--	--	--
	06/30/99	--	--	--	--	--	--	--	--	--	--
	12/08/99	--	--	--	--	--	--	--	--	--	--
	06/20/00 ^{NP}	10.94	0.00	8.89	<50.0	<250	<750	<1.30	<0.500	<0.500	<1.00
	12/19/00 ^{NP}	11.20	0.00	8.63	1,310	357	<750	<0.500	6.10	10.6	77.3
MTCA Method A Cleanup Level					1,000 ^a			5	40	30	20

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.

^{NP} = 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.

^a Total Petroleum Hydrocarbons

Data collected before 12/19/87 are taken from prior consultants.

*MW-46 is identified as MW-9 on the chain of custody and official laboratory report



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4 January, 2001

John Meyer
ERI
905 Industry Dr
Tukwila, WA 98188

RE: TOSCO #5353

Enclosed are the results of analyses for samples received by the laboratory on 12/19/00 14:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul Lawrence Miller, Jr.
Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223
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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 01/04/01 12:15
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-47	BOL0482-01	Water	12/19/00 04:30	12/19/00 14:10
MW-9	BOL0482-02	Water	12/19/00 05:00	12/19/00 14:10
MW-32	BOL0482-03	Water	12/19/00 05:30	12/19/00 14:10
MW-36	BOL0482-04	Water	12/19/00 06:00	12/19/00 14:10
MW-43	BOL0482-05	Water	12/19/00 06:30	12/19/00 14:10
MW-44	BOL0482-06	Water	12/19/00 07:00	12/19/00 14:10

North Creek Analytical - Bothell

Paul Lawrence Miller, Jr., Project Manager

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 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 01/04/01 12:15
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**Gasoline Range Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-47 (B0L0482-01) Water Sampled: 12/19/00 04:30 Received: 12/19/00 14:10									
Gasoline Range Hydrocarbons	1310	50.0	ug/l	1	0L28006	12/28/00	12/28/00	WTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	6.10	0.500	"	"	"	"	"	"	
Ethylbenzene	10.6	0.500	"	"	"	"	"	"	
Xylenes (total)	77.3	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	128 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	129 %	50-150			"	"	"	"	
MW-9 (B0L0482-02) Water Sampled: 12/19/00 05:00 Received: 12/19/00 14:10									
Gasoline Range Hydrocarbons	226	50.0	ug/l	1	0L28006	12/28/00	12/28/00	WTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	2.18	0.500	"	"	"	"	"	"	
Ethylbenzene	2.53	0.500	"	"	"	"	"	"	
Xylenes (total)	18.0	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	97.3 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	50-150			"	"	"	"	
MW-32 (B0L0482-03) Water Sampled: 12/19/00 05:30 Received: 12/19/00 14:10									
Gasoline Range Hydrocarbons	7010	5000	ug/l	100	0L28006	12/28/00	12/28/00	WTPH-G/8021B	
Benzene	4430	50.0	"	"	"	"	"	"	
Toluene	136	50.0	"	"	"	"	"	"	
Ethylbenzene	438	50.0	"	"	"	"	"	"	
Xylenes (total)	182	100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	96.9 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	104 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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 Environmental Laboratory Network



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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 01/04/01 12:15

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-36 (B0L0482-04) Water Sampled: 12/19/00 06:00 Received: 12/19/00 14:10									
Gasoline Range Hydrocarbons	106	50.0	ug/l	1	0L28006	12/28/00	12/28/00	WTPH-G/8021B	
Benzene	0.529	0.500	"	"	"	"	"	"	
Toluene	1.51	0.500	"	"	"	"	"	"	
Ethylbenzene	1.08	0.500	"	"	"	"	"	"	
Xylenes (total)	7.14	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.3 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	99.0 %	50-150			"	"	"	"	
MW-43 (B0L0482-05) Water Sampled: 12/19/00 06:30 Received: 12/19/00 14:10									
Gasoline Range Hydrocarbons	55.9	50.0	ug/l	1	0L28006	12/28/00	12/28/00	WTPH-G/8021B	
Benzene	2.97	0.500	"	"	"	"	"	"	
Toluene	0.948	0.500	"	"	"	"	"	"	
Ethylbenzene	0.730	0.500	"	"	"	"	"	"	
Xylenes (total)	4.78	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	85.6 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	99.4 %	50-150			"	"	"	"	
MW-44 (B0L0482-06) Water Sampled: 12/19/00 07:00 Received: 12/19/00 14:10									
Gasoline Range Hydrocarbons	301	50.0	ug/l	1	0L28006	12/28/00	12/28/00	WTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	1.64	0.500	"	"	"	"	"	"	
Ethylbenzene	2.76	0.500	"	"	"	"	"	"	
Xylenes (total)	22.1	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	98.5 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	109 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 01/04/01 12:15

**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended))
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-47 (B0L0482-01) Water Sampled: 12/19/00 04:30 Received: 12/19/00 14:10									
Diesel Range Hydrocarbons	0.357	0.250	mg/l	1	0L26009	12/26/00	12/28/00	WTPH-D	D-08
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	"
Surrogate: 2-FBP	81.5 %	50-150			"	"	"	"	"
Surrogate: Octacosane	80.7 %	50-150			"	"	"	"	"
MW-9 (B0L0482-02) Water Sampled: 12/19/00 05:00 Received: 12/19/00 14:10									
Diesel Range Hydrocarbons	0.277	0.250	mg/l	1	0L26009	12/26/00	12/28/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	78.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	90.8 %	50-150			"	"	"	"	
MW-32 (B0L0482-03) Water Sampled: 12/19/00 05:30 Received: 12/19/00 14:10									
Diesel Range Hydrocarbons	1.74	0.250	mg/l	1	0L26009	12/26/00	12/28/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	91.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	83.9 %	50-150			"	"	"	"	
MW-36 (B0L0482-04) Water Sampled: 12/19/00 06:00 Received: 12/19/00 14:10									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	0L26009	12/26/00	12/28/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	78.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.9 %	50-150			"	"	"	"	
MW-43 (B0L0482-05) Water Sampled: 12/19/00 06:30 Received: 12/19/00 14:10									
Diesel Range Hydrocarbons	0.253	0.249	mg/l	1	0L26009	12/26/00	12/28/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.749	"	"	"	"	"	"	
Surrogate: 2-FBP	79.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	83.6 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 01/04/01 12:15
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Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended))
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-44 (B0L0482-06) Water Sampled: 12/19/00 07:00 Received: 12/19/00 14:10									
Diesel Range Hydrocarbons	0.330	0.250	mg/l	1	0L26009	12/26/00	12/28/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	69.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	85.8 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 01/04/01 12:15
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Gasoline Range Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0L28006: Prepared 12/28/00 Using EPA 5030B (P/T)

Blank (0L28006-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	39.8		"	48.0		82.9	50-150			
Surrogate: 4-BFB (PID)	43.8		"	48.0		91.2	50-150			

LCS (0L28006-BS1)

Gasoline Range Hydrocarbons	503	50.0	ug/l	500		101	70-130			
Surrogate: 4-BFB (FID)	51.2		"	48.0		107	50-150			

Duplicate (0L28006-DUP1)

Source: B0L0460-04

Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND				25	
Surrogate: 4-BFB (FID)	37.4		"	48.0		77.9	50-150			

Duplicate (0L28006-DUP2)

Source: B0L0482-01

Gasoline Range Hydrocarbons	1280	50.0	ug/l		1310			2.32	25	
Surrogate: 4-BFB (FID)	60.2		"	48.0		125	50-150			

Matrix Spike (0L28006-MS1)

Source: B0L0460-03

Benzene	9.66	0.500	ug/l	10.0	ND	95.8	70-130			
Toluene	9.73	0.500	"	10.0	ND	95.7	70-130			
Ethylbenzene	9.94	0.500	"	10.0	ND	99.4	70-130			
Xylenes (total)	29.4	1.00	"	30.0	ND	98.0	70-130			
Surrogate: 4-BFB (PID)	44.7		"	48.0		93.1	50-150			

Matrix Spike Dup (0L28006-MSD1)

Source: B0L0460-03

Benzene	9.88	0.500	ug/l	10.0	ND	98.0	70-130	2.25	15	
Toluene	9.99	0.500	"	10.0	ND	98.3	70-130	2.64	15	
Ethylbenzene	10.3	0.500	"	10.0	ND	103	70-130	3.56	15	
Xylenes (total)	30.4	1.00	"	30.0	ND	101	70-130	3.34	15	
Surrogate: 4-BFB (PID)	49.4		"	48.0		103	50-150			

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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 01/04/01 12:15

**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended) - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0L26009: Prepared 12/26/00 Using EPA 3520C/600 Series

Blank (0L26009-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Heavy Oil Range Hydrocarbons	ND	0.750	"							
Surrogate: 2-FBP	0.247		"	0.320		77.2	50-150			
Surrogate: Octacosane	0.284		"	0.320		88.8	50-150			

LCS (0L26009-BS1)

Diesel Range Hydrocarbons	1.74	0.250	mg/l	2.00		87.0	60-140			
Surrogate: 2-FBP	0.279		"	0.320		87.2	50-150			

LCS Dup (0L26009-BSD1)

Diesel Range Hydrocarbons	1.62	0.250	mg/l	2.00		81.0	60-140	7.14	40	
Surrogate: 2-FBP	0.246		"	0.320		76.9	50-150			

Duplicate (0L26009-DUP1)

Source: B0L0470-01

Diesel Range Hydrocarbons	ND	0.406	mg/l		ND			53.2	44	Q-05
Heavy Oil Range Hydrocarbons	ND	1.22	"		ND			98.1	44	Q-05
Surrogate: 2-FBP	0.458		"	0.519		88.2	50-150			
Surrogate: Octacosane	0.459		"	0.519		88.4	50-150			

Duplicate (0L26009-DUP2)

Source: B0L0470-02

Diesel Range Hydrocarbons	ND	0.250	mg/l		0.358			41.9	44	
Heavy Oil Range Hydrocarbons	ND	0.750	"		ND				44	
Surrogate: 2-FBP	0.453		"	0.610		74.3	50-150			
Surrogate: Octacosane	0.505		"	0.610		82.8	50-150			

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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 01/04/01 12:15
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Notes and Definitions

- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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TOSCO CHAIN OF CUSTODY REPORT BLD0482

TOSCO INFORMATION

Facility Number: 1050 5355
 Site Address: 600 Westlake Ave N.
 City, State, ZIP: Seattle WA
 Project/AWO Code: _____
 Tosco Manager: Tim Johnson
 FACILITY TYPE: (check one) BP Terminal/Bulk Plant
 Brown Bear Former 76 Site Other 76

CONSULTANT INFORMATION

Firm: ERI Project# 51020
 Address: 905 Industry Dr.
 Tukwila WA 98188
 Phone: 206-575-6220 Fax: X6423
 Project Manager: James Matthews E-mail: _____
 Sample Collection by: _____

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

Laboratory Turnaround Days:
 5
 3
 2
 1
 10 Day - Standard

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O)	# OF CON-TAINERS
1. MW-47	5/33/00 0430		3
2. MW-9	5/33/00 0500		3
3. MW-32	5/33/00 0530		3
4. MW-36	5/33/00 0600		3
5. MW-43	5/33/00 0630		3
6. MW-44	5/33/00 0700		3
7.			
8.			
9.			
10.			

TPH-HCID	TPH-Gas	BTEX	EPA 8021 Mod.	TPH-Gas + BTEX	TPH-Diesel	Extended	TPH-Diesel-Ext.	w/SG Cleanup	Halogen. Volatiles	EPA 8021	Pesticides/PCBs or PCBs Only	GCM/S Volatiles	EPA 8260	GCM/S SemiVols.	EPA 8270	PAH's	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																	

NCA SAMPLE NUMBER
 BLD0482 01
 02
 03
 04
 05
 06

Relinquished by: Firm: _____ Date & Time: _____
 1. Sam Knox ERI 12/19/00 0845 BULK NCA 12/19/00 1100
 2. Bill Keenan NCA 12-17-00 14:10 Collette Weaver NCA 12/19/00 1410
 3. _____

Comments: _____

Comments: _____

Page 1 of 1

Rev. Tos3.3.299

Distribution: White - Laboratory Yellow - Consultant Photocopy - Tosco

Comments: BDC

GROUNDWATER SAMPLING - FIELD LOG

Client Name: Tosco
 Location: 600 West Lake
 Field Crew: Sam Knox

ERI Job No. 1070
 Field Cleaning Performed:
 Analysis:

Date: 12/19/00 Page 1 of 1

* Case Volume = $(d_{max} - d_{min}) \times L \times F$ where F =
 0.163 for a 2" inside diameter well casing
 0.652 for a 4" inside diameter well casing
 1.467 for a 6" inside diameter well casing

Well No.	Time	Depth Water (ft.)	Depth Well (ft.)	Case Dia. (in)	Case Vol. gal	Purge Vol. (gal)	Conduct. $\mu S/cm$ (x1000)	Temp. Deg F	pH	TURB. NTU	PID PPH	Comments
MW 28	0500	12.70	21.30	2								
MW 32	0530	10.50	23.50	2								
MW 36	0600	9.80	18.0	2								
MW 37	0630	11.50	16.80	2								LPH present, 10.50 ft
MW 43	0700	11.40	21.20	2								bailer in well
MW 44	0730	9.20	44.70	2								
MW 47	0800	11.20	18.00	2								
MW 48												not accessible, vehicle
MW 33												not accessible, vehicle
MW 35												not accessible, vehicle
MW 38												not accessible, vehicle

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