

Unocal SH-5919

LOST#
1242

DATE: August 12, 1998

TOSCO MARKETING COMPANY QUARTERLY REPORT

Tosco Facility: 5919 Address: 1100 Broadway Avenue, Seattle, Washington
Tosco Environmental Manager: Timothy D. Johnson
Consulting Co./Contact Person: Environmental Resolutions, Inc., John Meyer
ERI Project No.: 03102213
Primary Agency/Regulatory ID No.: Washington State Department of Ecology UST

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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:	Quarterly Groundwater Sampling	(Assmnt, Remed., etc.)
Frequency of Sampling:	Quarterly	(Quarterly, etc.)
Frequency of Monitoring:	Quarterly	(Monthly, etc.)
Are Liquid Phase Hydrocarbons Present On-site:	No	(Yes/No)
Cumulative LPH Recovered to Date:	Unknown	(gallons)
LPH Recovered This Quarter:	None	(gallons)
Bulk Soil Removed to Date:	Approx. 2 Cubic Yards	(cubic yards)
Bulk Soil Removed This Quarter:	None	(cubic yards)
Water Wells or Surface Waters w/in a 2000'		
Radius & Their Respective Directions:	Unknown	(Distance and Direction)
Current Remediation Techniques:	Passive LPH skimmer in MW-1	(SVES, LPH Removal,
Permits for Discharge:	None	(NPDES, POTW, etc.)
Approximate Depth to Groundwater:	12 to 19 ft on site, 24 to 47 ft off site	(Measured Feet)
Groundwater Gradient:	North and East	(Direction)
	0.03 vertical feet per linear foot	(Magnitude)

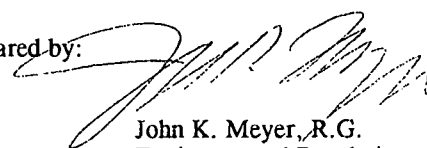
Discussion: On June 26, 1998, Environmental Resolutions, Inc., (ERI) gauged and sampled 9 groundwater monitoring wells. Groundwater samples were collected without purging. Results indicated groundwater present approximately 12 to 19 feet bgs on site and approximately 24 to 47 feet bgs off site with a gradient generally directed toward the north and east. Liquid-phase hydrocarbons (LPH) were not observed in any well.

The groundwater samples collected from MW-2, MW-6, and MW-8 contained concentrations of tetrachloroethene (PCE) exceeding the MTCA Method A Cleanup Level. No other analyte concentration 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 1 - Groundwater Analytical Results
 - Laboratory Reports and Chain-of-Custody Documentation

cc: Washington State Department of Ecology

Prepared by: 
John K. Meyer, R.G.
Environmental Resolutions, Inc.

Independent Action Report Update

Site Name: Unocal # 5919

Inc. #: 1242 Date of Report: 8-12-98

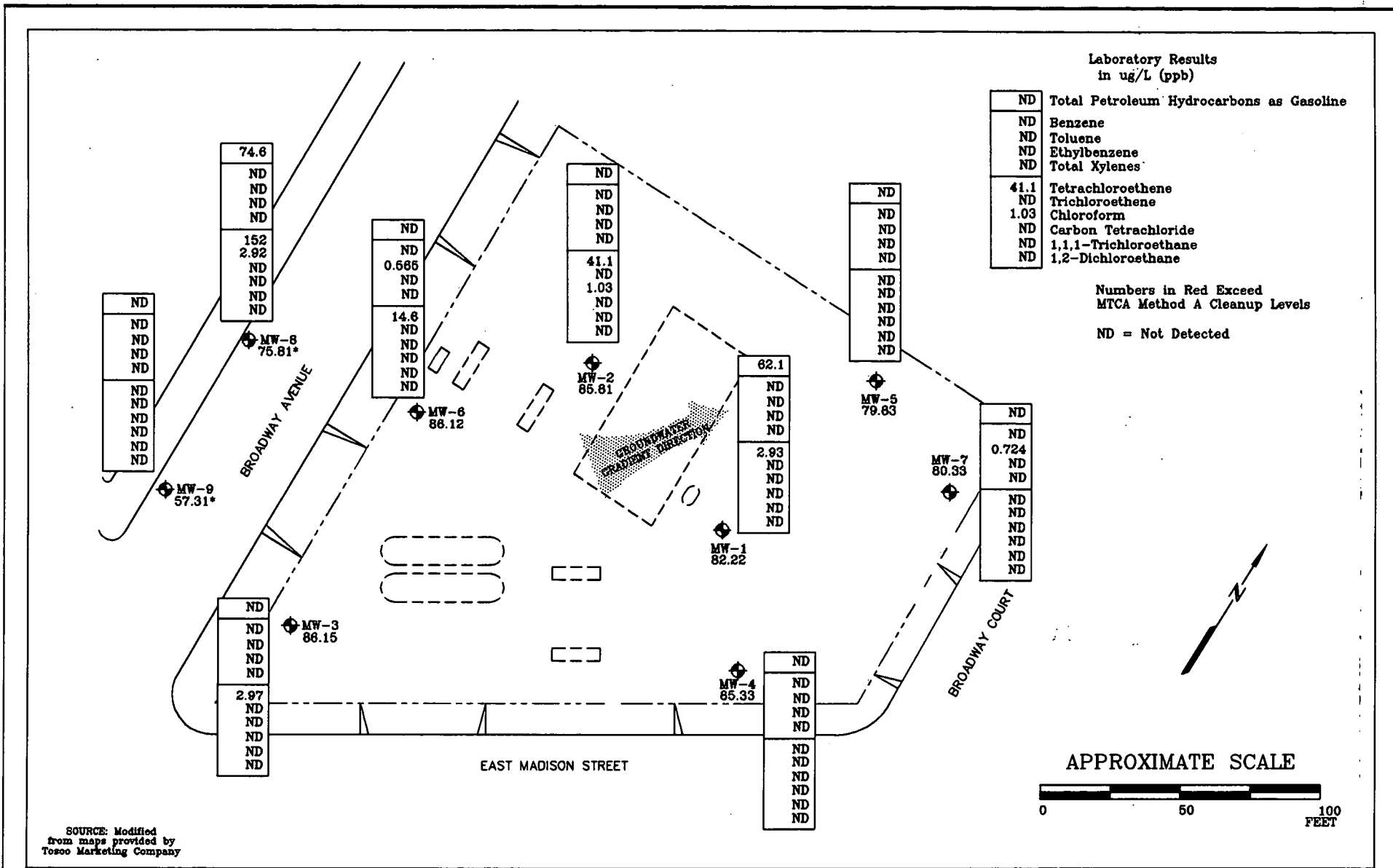
County: King Date Report Rec'd: 8-14-98

Reviewed by: Ben Amoah-Forson

Comments (e.g. free product, off site migration, Conc. Trend)

3 of 9 mws show Benzene
Slightly above method A.
All other contaminants are
ND in all wells.

Monitoring



FN 5919

GROUNDWATER SAMPLE ANALYSES MAP - 6/26/98

TOSCO FACILITY 5919
1100 Broadway Avenue
Seattle, Washington

EXPLANATION

- ◆ MW-6 Groundwater Monitoring Well
- 86.12 Groundwater Elevation
- * Data Not Used In Gradient Determination

PROJECT NO.

31022

PLATE

P-1

DATE: 8/12/98



TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5919
1100 Broadway Avenue
Seattle, Washington
Page 1 of 3

Well	Sample Date	DTW	GW Elev.	TPH-G	B	T	E	X	PCE	TCE	Chlor	CCl ₄	TCA	1,2-DCA
MW-1 98.56	10/05/90	18.58	79.98	--	36	1.8	31	47	2.3	<0.2	<0.2	<0.2	<0.2	<0.2
	02/20/91	18.95	80.86	--	--	--	--	--	1.6	<0.2	<0.2	<0.2	<0.2	<0.2
	05/21/91	17.92	81.41	--	--	--	--	--	--	--	--	--	--	--
	08/20/91	18.11	80.73	--	--	--	--	--	2.3	<0.2	<0.2	<0.2	<0.2	<0.2
	02/20/92	17.80	80.88	4	7.2	<0.5	12	18	5.7	<0.2	<0.2	<0.2	<0.2	<0.2
	05/22/92	17.71	80.60	--	--	--	--	--	--	--	--	--	--	--
	08/11/92	18.48	80.56	--	--	--	--	--	--	--	--	--	--	--
	11/20/92	18.35	80.58	--	--	--	--	--	--	--	--	--	--	--
	02/16/96	12.46	86.11	--	--	--	--	--	--	--	--	--	--	--
	05/09/96	13.51	85.06	--	--	--	--	--	--	--	--	--	--	--
	08/06/96	15.63	82.93	--	--	--	--	--	--	--	--	--	--	--
	11/12/96	16.24	82.32	--	--	--	--	--	--	--	--	--	--	--
	03/10/97	13.24	85.32	--	--	--	--	--	--	--	--	--	--	--
	06/02/97	13.73	84.84	--	--	--	--	--	--	--	--	--	--	--
	09/05/97	15.69	82.87	150	<0.500	<0.500	<0.500	<1.00	3.54	<1.00	<1.00	<1.00	<1.00	<1.00
	12/17/97 ^{NP}	15.78	82.78	834	<0.500	0.516	<0.500	<1.00	3.32	<1.00	<1.00	<1.00	<1.00	<1.00
	3/16/98 ^{NP}	13.60	84.96	702	<0.500	<0.500	<0.500	<1.00	2.68	<1.00	<1.00	<1.00	<1.00	<1.00
	6/26/98 ^{NP}	16.34	82.22	62.1	<0.500	<0.500	<0.500	<1.00	2.93	<1.00	<1.00	<1.00	<1.00	<1.00
MW-2 100.16	10/05/90	17.85	82.59	--	<0.5	0.6	<0.5	<0.5	--	--	--	--	--	--
	02/20/91	17.82	82.62	--	<1	<1	<1	<1	170	3.4	0.5	<0.2	<0.2	<0.2
	05/21/91	17.49	82.95	--	--	--	--	--	--	--	--	--	--	--
	08/20/91	17.13	83.31	--	<0.5	0.6	<0.5	<0.5	190	4.7	0.8	<0.2	0.3	<0.2
	02/20/92	16.60	83.84	<1	<0.5	<0.5	<0.5	<0.5	180	5.3	0.9	0.5	0.6	<0.2
	05/22/92	16.61	83.83	--	<0.5	<0.5	<0.5	<0.5	190	4.4	0.6	0.4	0.4	<0.2
	08/11/92	16.80	83.64	--	<0.5	<0.5	<0.5	<0.5	320	5.9	0.8	0.7	0.6	<0.2
	11/12/96	14.85	85.31	--	<0.500	<0.500	<0.500	<1.00	82.7	<1.0	<1.0	<1.0	<1.0	<0.5
	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/02/97	13.70	86.46	<50.0	<0.500	<0.500	<0.500	<1.00	49.7	<1.00	<1.00	<1.00	<1.00	<1.00
	09/05/97	14.24	85.92	<50.0	<0.500	<0.500	<0.500	<1.00	49.9	<1.00	<1.00	<1.00	<1.00	<1.00
	12/17/97 ^{NP}	14.07	86.09	<50.0	<0.500	<0.500	<0.500	<1.00	47.3	<1.00	<1.00	<1.00	<1.00	<1.00
	3/16/98 ^{NP}	13.60	86.56	70.4	<0.500	<0.500	<0.500	<1.00	38.8	<1.00	<1.00	<1.00	<1.00	<1.00
	6/26/98 ^{NP}	14.35	85.81	<50.0	<0.500	<0.500	<0.500	<1.00	41.1	<1.00	1.03	<1.00	<1.00	<1.00
MW-3 104.99	10/05/90	21.49	83.50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	02/20/91	21.69	83.30	--	<1	<1	<1	<1	5.6	<0.2	<0.2	0.8	<0.2	<0.2
	05/21/91	20.73	84.26	--	--	--	--	--	--	--	--	--	--	--
	08/20/91	20.16	84.83	--	<0.5	<0.5	<0.5	<0.5	6.5	<0.2	<0.2	<0.2	<0.2	<0.2
	02/20/92	20.35	84.64	<1	<0.5	<0.5	<0.5	<0.5	5.5	<0.2	<0.2	0.3	<0.2	<0.2
	05/22/92	20.48	84.51	--	<0.5	<0.5	<0.5	<0.5	5.7	<0.2	<0.2	<0.2	<0.2	<0.2
	08/11/92	20.54	84.45	--	<0.5	<0.5	<0.5	<0.5	5.3	<0.2	<0.2	<0.2	<0.2	<0.2
	11/20/92	20.76	84.23	<0.1	<0.5	<0.5	<0.5	<0.5	6.4	<0.2	0.3	0.4	<0.2	<0.2
	02/16/96	16.42	88.57	--	<0.5	<0.5	<0.5	<1.0	4.7	<1.0	<1.0	<1.0	<1.0	<0.5
	05/09/96	17.32	87.67	--	<1.0	<1.0	<1.0	<2.0	3.58	<1.0	<1.0	<1.0	<1.0	<0.5
	08/06/96	18.70	86.29	--	<1.0	<1.0	<1.0	<2.0	4.69	<1.0	<1.0	<1.0	<1.0	<0.5
	11/12/96	19.29	85.70	--	<0.500	<0.500	<0.500	<1.00	5.85	<1.00	<1.00	<1.00	<1.00	<0.5
	03/10/97	17.15	87.84	--	<0.500	<0.500	<0.500	<1.00	3.92	<1.00	<1.00	<1.00	<1.00	<1.00
	06/02/97	17.44	87.55	101	<0.500	<0.500	<0.500	<1.00	3.22	<1.00	<1.00	<1.00	<1.00	<1.00
	09/05/97	18.65	86.34	<50.0	<0.500	<0.500	<0.500	<1.00	3.98	<1.00	<1.00	<1.00	<1.00	<1.00
	12/17/97 ^{NP}	18.67	86.32	<50.0	<0.500	<0.500	<0.500	<1.00	3.85	<1.00	<1.00	<1.00	<1.00	<1.00
	3/16/98 ^{NP}	17.21	87.78	51.9	<0.500	<0.500	<0.500	<1.00	2.80	<1.00	<1.00	<1.00	<1.00	<1.00
	6/26/98 ^{NP}	18.84	86.15	<50.0	<0.500	<0.500	<0.500	<1.00	2.97	<1.00	<1.00	<1.00	<1.00	<1.00
MW-4 96.70	10/05/90	15.12	81.58	--	2.4	1.4	<0.5	0.6	--	--	--	--	--	--
	02/20/91	14.02	82.68	--	4.3	<1	<1	2.1	0.4	<0.2	<0.2	<0.2	<0.2	<0.2
	05/21/91	13.35	83.35	--	--	--	--	--	--	--	--	--	--	--
	08/20/91	14.18	85.52	--	21	<0.5	<0.5	<0.5	0.7	<0.2	<0.2	<0.2	<0.2	<0.2
	02/20/92	12.65	84.05	1	22	<0.5	<0.5	0.6	1.4	0.7	<0.2	<0.2	0.4	<0.2
	05/22/92	13.42	83.28	--	19	<0.5	<0.5	<0.5	1.7	0.7	<0.2	<0.2	<0.2	0.2
	08/11/92	14.62	79.22	--	11	<0.5	<0.5	<0.5	0.7	0.3	<0.2	<0.2	<0.2	<0.2
	11/20/92	15.36	81.34	<0.1	5.9	0.6	<0.5	1.8	0.6	<0.2	<0.2	<0.2	<0.2	<0.2
	02/16/96	8.74	87.96	--	1.1	1.3	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/09/96	9.86	86.84	--	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	08/06/96	11.73	84.97	--	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/12/96	12.26	84.44	--	0.869	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.5
	03/10/97	9.40	87.30	--	<0.500	<0.500	0.743	1.34	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	06/02/97	9.96	86.74	<50.0	<0.500	<0.500	<0.500	<1.00	1.15	<1.00	<1.00	<1.00	<1.00	<1.00
	09/05/97	11.50	85.20	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	12/17/97 ^{NP}	11.00	85.70	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	3/16/98 ^{NP}	9.57	87.13	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	6/26/98 ^{NP}	11.37	85.33	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

MTCA Method A Cleanup Level

Continued on Page 2.

1,000^a 5 40 30 20 5 5 NA 5 5 5

TABLE 1
GROUNDWATER ANALYTICAL RESULTS

Tosco Facility 5919
1100 Broadway Avenue
Seattle, Washington

Page 2 of 3

Well	Sample Date	DTW	GW Elev.	TPH-G	B	T	E	X	PCE	TCE	Chlor	CCl ₄	TCA	1,2-DCA
MW-5 95.12	10/05/90	19.77	75.40	--	2.8	<0.5	<0.5	<0.5	--	--	--	--	--	--
	02/20/91	18.61	76.56	--	<1	<1	<1	<1	0.4	<0.2	<0.2	<0.2	<0.2	2.0
	05/21/91	18.43	76.74	--	--	--	--	--	--	--	--	--	--	--
	08/20/91	18.87	76.30	--	<0.5	<0.5	<0.5	<0.5	0.6	<0.2	<0.2	<0.2	<0.2	<0.2
	02/20/92	18.01	77.16	<1	<0.5	<0.5	<0.5	<0.5	0.5	<0.2	<0.2	<0.2	<0.2	1.3
	05/22/92	18.32	76.85	--	<0.5	<0.5	<0.5	<0.5	0.4	<0.2	<0.2	<0.2	<0.2	1.1
	08/11/92	18.79	76.38	--	<0.5	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	0.9
	11/20/92	18.78	76.39	<0.1	0.8	1.5	<0.5	2.2	0.6	<0.2	<0.2	<0.2	<0.2	1.2
	02/16/96	12.98	82.14	--	0.85	1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/09/96	13.54	81.58	--	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	08/06/96	15.31	79.81	--	<1.0	<1.0	<1.0	<2.0	1.01	<1.0	<1.0	<1.0	<1.0	<0.5
	11/12/96	16.35	78.77	--	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.681
	03/10/97	12.99	82.13	--	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	06/02/97	13.30	81.82	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	09/05/97	15.24	79.88	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	12/17/97 ^{NP}	15.28	79.84	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	3/16/98 ^{NP}	13.40	81.72	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	6/26/98 ^{NP}	15.29	79.83	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-6 103.08	08/20/91	18.29	87.79	--	<0.5	<0.5	<0.5	<0.5	59	<0.2	0.4	<0.2	<0.2	<0.2
	02/20/92	18.50	84.58	<1	<0.5	<0.5	<0.5	<0.5	65	<0.2	0.2	0.6	<0.2	<0.2
	05/22/92	18.59	84.49	--	<0.5	<0.5	<0.5	<0.5	57	<0.2	<0.2	0.3	<0.2	<0.2
	08/11/92	17.64	85.44	--	<0.5	<0.5	<0.5	<0.5	66	<0.2	<0.2	0.5	<0.2	<0.2
	11/20/92	18.87	84.21	<0.1	<0.5	<0.5	<0.5	<0.5	97	<0.2	<0.2	<0.2	<0.2	<0.2
	02/16/96	14.98	88.10	--	<0.5	<0.5	<0.5	<1.0	22	<1.0	<1.0	<1.0	<1.0	<0.5
	05/09/96	15.73	87.35	--	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	08/06/96	16.86	86.22	--	<1.0	<1.0	<1.0	<2.0	23.1	<1.0	<1.0	<1.0	<1.0	<0.5
	11/12/96	17.39	85.69	--	<0.500	<0.500	<0.500	<1.00	30.0	<1.00	<1.00	<1.00	<1.00	<0.5
	03/10/97	15.59	87.49	--	<0.500	<0.500	<0.500	<1.00	14.7	<1.00	<1.00	<1.00	<1.00	<1.00
	06/02/97	15.81	87.27	<50.0	0.878	1.48	<0.500	3.93	12.1	<1.00	<1.00	<1.00	<1.00	<1.00
	09/05/97	16.79	86.29	<50.0	<0.500	<0.500	<0.500	<1.00	17.0	<1.00	<1.00	<1.00	<1.00	<1.00
	12/17/97 ^{NP}	16.79	86.29	<50.0	<0.500	<0.500	<0.500	<1.00	19.4	<1.00	<1.00	<1.00	<1.00	<1.00
	3/16/98 ^{NP}	15.62	87.46	53.9	<0.500	<0.500	<0.500	<1.00	12.1	<1.00	<1.00	<1.00	<1.00	<1.00
	6/26/98 ^{NP}	16.96	86.12	<50.0	<0.500	0.565	<0.500	<1.00	14.6	<1.00	<1.00	<1.00	<1.00	<1.00
MW-7 93.50	08/20/91	16.14	77.36	--	<0.5	<0.5	<0.5	<0.5	0.8	<0.2	<0.2	<0.2	<0.2	<0.2
	02/20/92	15.22	78.28	<1	<0.5	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	05/22/92	15.69	77.81	--	<0.5	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	08/11/92	16.27	77.23	--	<0.5	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	11/20/92	16.31	77.19	<0.1	1.4	0.9	0.7	3.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	02/16/96	11.72	81.78	--	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/09/96	12.41	81.09	--	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	08/06/96	14.55	78.95	--	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/12/96	14.84	78.66	--	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.5
	03/10/97	11.92	81.58	--	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	06/02/97	12.13	81.37	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	09/05/97	13.67	79.83	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	12/17/97 ^{NP}	13.40	80.10	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	3/16/98 ^{NP}	12.47	81.03	77.9	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	6/26/98 ^{NP}	13.17	80.33	<50.0	<0.500	0.724	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-8 100.31	11/12/96	24.40	75.91	--	<0.5	<0.5	<0.5	<1.0	184	3.96	<1.00	<1.00	<1.00	<0.5
	03/10/97	24.00	76.31	--	<0.500	<0.500	<0.500	<1.00	179	4.52	<1.00	<1.00	<1.00	<1.00
	06/02/97	24.10	76.21	<50.0	<0.500	<0.500	<0.500	<1.00	135	4.00	<1.00	<1.00	<1.00	<1.00
	09/05/97	24.49	75.82	79.3	<0.500	<0.500	<0.500	<1.00	151	3.84	<1.00	<1.00	<1.00	<1.00
	12/17/97 ^{NP}	24.54	75.77	71.5	<0.500	<0.500	<0.500	<1.00	113	3.40	<1.00	<1.00	<1.00	<1.00
	3/16/98 ^{NP}	24.21	76.10	112	<0.500	<0.500	<0.500	<1.00	84.2	3.24	<1.00	<1.00	<1.00	<1.00
	6/26/98 ^{NP}	24.50	75.81	74.6	<0.500	<0.500	<0.500	<1.00	152	2.92	<1.00	<1.00	<1.00	<1.00

MTCA Method A Cleanup Level

1,000^g

5

40

30

20

5

5

NA

5

5

5

5

Continued on Page 3.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5919
1100 Broadway Avenue
Seattle, Washington
Page 3 of 3

Well	Sample Date	DTW	GW Elev.	TPH-G	B	T	E	X	PCE	TCE	Chlor	CCl ₄	TCA	1,2-DCA
MW-9 103.99	11/12/96	46.68	57.31	--	<0.5	<0.5	<0.5	<1.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.5
	03/10/97	46.23	57.76	--	<0.500	<0.500	<0.500	1.43	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	06/02/97	46.26	57.73	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	09/05/97	46.40	57.59	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	12/17/97 ^{NP}	46.60	57.39	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	3/16/98 ^{NP}	46.21	57.78	50.7	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	6/26/98 ^{NP}	46.68	57.31	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MTCA Method A Cleanup Level				1,000 ^a	5	40	30	20	5	5	NA	5	5	5

EXPLANATION:

Concentrations in ug/L (ppb).

Wellhead elevations taken from prior consultant's reports.

DTW = Depth to water in feet below top of casing.

LPH = Liquid-phase petroleum hydrocarbon thickness in feet.

GW Elev. = Groundwater elevation relative to top of casing elevations. Corrected for LPH where applicable using a specific gravity of 0.85.

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

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

BTEX = Aromatic compounds by EPA Method 8020.

PCE = Tetrachloroethene; TCE = Trichloroethene; Chlor = Chloroform; CCl₄ = Carbon Tetrachloride; TCA = 1,1,1-Trichloroethane; 1,2-DCA = 1,2-Dichloroethane;

PCE, TCE, Chloroform, CCl₄, TCA, and 1,2-DCA by EPA Method 8010. Refer to laboratory reports for additional detected compounds.

^{NP} = Well not purged prior to sampling.

< = Less than the stated laboratory reporting limit.

-- = Not analyzed.

Shaded values equal or exceed MTCA Method A Cleanup Levels.

^a Total Petroleum Hydrocarbons

NA = Not applicable.

Data collected before 12/17/97 are taken from prior consultants.



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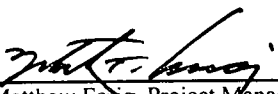
ERI	Project: TOSCO #5919, Broadway	Sampled: 6/26/98
1921 Edmonds Drive SE	Project Number: 31022	Received: 6/26/98
Renton, WA 98055	Project Manager: John Meyer	Reported: 7/10/98 09:03

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	B806590-01	Water	6/26/98
MW-2	B806590-02	Water	6/26/98
MW-3	B806590-03	Water	6/26/98
MW-4	B806590-04	Water	6/26/98
MW-5	B806590-05	Water	6/26/98
MW-6	B806590-06	Water	6/26/98
MW-7	B806590-07	Water	6/26/98
MW-8	B806590-08	Water	6/26/98
MW-9	B806590-09	Water	6/26/98

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*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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Renton, WA 98055

Project: TOSCO #5919, Broadway
Project Number: 31022
Project Manager: John Meyer

Sampled: 6/26/98
Received: 6/26/98
Reported: 7/10/98 09:03

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*
				B806590-01			Water	
MW-1								
Gasoline Range Hydrocarbons	0780028	7/1/98	7/1/98		50.0	62.1	ug/l	1
Benzene	"	"	"		0.500	ND	"	
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		112	"	
				B806590-02			Water	
MW-2								
Gasoline Range Hydrocarbons	0780028	7/1/98	7/1/98		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		105	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		112	"	
				B806590-03			Water	
MW-3								
Gasoline Range Hydrocarbons	0780028	7/1/98	7/1/98		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		109	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		113	"	
				B806590-04			Water	
MW-4								
Gasoline Range Hydrocarbons	0780028	7/1/98	7/1/98		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		114	"	
				B806590-05			Water	
MW-5								
Gasoline Range Hydrocarbons	0780028	7/1/98	7/1/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	

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


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1921 Edmonds Drive SE
Renton, WA 98055

Project: TOSCO #5919, Broadway
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Project Manager: John Meyer

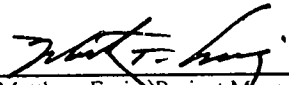
Sampled: 6/26/98
Received: 6/26/98
Reported: 7/10/98 09:03

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*
MW-5 (continued)				B806590-05			Water	
Toluene	0780028	7/1/98	7/1/98		0.500	ND	ug/l	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		105	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		115	"	
MW-6				B806590-06			Water	
Gasoline Range Hydrocarbons	0780028	7/1/98	7/1/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	0.565	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		103	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		115	"	
MW-7				B806590-07			Water	
Gasoline Range Hydrocarbons	0780028	7/1/98	7/1/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	0.724	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		103	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		116	"	
MW-8				B806590-08			Water	
Gasoline Range Hydrocarbons	0780028	7/1/98	7/1/98		50.0	74.6	ug/l	2
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		101	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		116	"	
MW-9				B806590-09			Water	
Gasoline Range Hydrocarbons	0780028	7/1/98	7/1/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	

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Page 3 of 16



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Project: TOSCO #5919, Broadway
Project Number: 31022
Project Manager: John Meyer

Sampled: 6/26/98
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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>MW-9 (continued)</u>				<u>B806590-09</u>			<u>Water</u>	
Xylenes (total)	0780028	7/1/98	7/1/98		1.00	ND	ug/l	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		94.4	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		111	"	



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Sampled: 6/26/98
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Reported: 7/10/98 09:03

Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1				B806590-01			Water	
Bromodichloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	
Chlorobenzene	"	"	"		1.00	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	ND	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	
1,4-Dichlorobenzene	"	"	"		1.00	ND	"	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	
1,1-Dichloroethene	"	"	"		1.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		10.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.00	ND	"	
Tetrachloroethene	"	"	"		1.00	2.93	"	
1,1,1-Trichloroethane	"	"	"		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	ND	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		95.8	%	

MW-2				B806590-02			Water	
Bromodichloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	
Chlorobenzene	"	"	"		1.00	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	1.03	"	

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Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-2 (continued)				B806590-02		Water		
Chloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	ND	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	
1,4-Dichlorobenzene	"	"	"		1.00	ND	"	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	
1,1-Dichloroethene	"	"	"		1.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		10.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.00	ND	"	
Tetrachloroethene	"	"	"		1.00	41.1	"	
1,1,1-Trichloroethane	"	"	"		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	ND	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		92.8	%	

MW-3				B806590-03		Water		
Bromodichloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	
Chlorobenzene	"	"	"		1.00	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	ND	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	
1,4-Dichlorobenzene	"	"	"		1.00	ND	"	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	

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


Matthew Essig, Project Manager

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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	Project: TOSCO #5919, Broadway	Sampled: 6/26/98
1921 Edmonds Drive SE	Project Number: 31022	Received: 6/26/98
Renton, WA 98055	Project Manager: John Meyer	Reported: 7/10/98 09:03

Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>MW-3 (continued)</u>				<u>B806590-03</u>		<u>Water</u>		
1,1-Dichloroethene	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
cis-1,2-Dichloroethene	"	"	"		1.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		10.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.00	ND	"	
Tetrachloroethene	"	"	"		1.00	2.97	"	
1,1,1-Trichloroethane	"	"	"		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	ND	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		94.9	%	
<u>MW-4</u>				<u>B806590-04</u>		<u>Water</u>		
Bromodichloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	
Chlorobenzene	"	"	"		1.00	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	ND	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	
1,4-Dichlorobenzene	"	"	"		1.00	ND	"	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	
1,1-Dichloroethene	"	"	"		1.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		10.0	ND	"	

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ERI
1921 Edmonds Drive SE
Renton, WA 98055

Project: TOSCO #5919, Broadway
Project Number: 31022
Project Manager: John Meyer

Sampled: 6/26/98
Received: 6/26/98
Reported: 7/10/98 09:03

Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-4 (continued)				B806590-04			Water	
1,1,2,2-Tetrachloroethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Tetrachloroethene	"	"	"		1.00	ND	"	
1,1,1-Trichloroethane	"	"	"		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	ND	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		98.2	%	
MW-5				B806590-05			Water	
Bromodichloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	
Chlorobenzene	"	"	"		1.00	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	ND	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	
1,4-Dichlorobenzene	"	"	"		1.00	ND	"	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	
1,1-Dichloroethene	"	"	"		1.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		10.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.00	ND	"	
Tetrachloroethene	"	"	"		1.00	ND	"	
1,1,1-Trichloroethane	"	"	"		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	ND	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	

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ERI
1921 Edmonds Drive SE
Renton, WA 98055

Project: TOSCO #5919, Broadway
Project Number: 31022
Project Manager: John Meyer

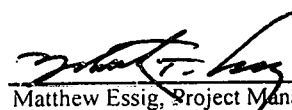
Sampled: 6/26/98
Received: 6/26/98
Reported: 7/10/98 09:03

Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-5 (continued)				B806590-05		Water		
Surrogate: 4-BFB (ELCD)	0780222	7/8/98	7/8/98	50.0-150		96.8	%	
MW-6				B806590-06		Water		
Bromodichloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	
Chlorobenzene	"	"	"		1.00	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	ND	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	
1,4-Dichlorobenzene	"	"	"		1.00	ND	"	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	
1,1-Dichloroethene	"	"	"		1.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		10.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.00	ND	"	
Tetrachloroethene	"	"	"		1.00	14.6	"	
1,1,1-Trichloroethane	"	"	"		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	ND	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		96.7	%	
MW-7				B806590-07		Water		
Bromodichloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	

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ERI
1921 Edmonds Drive SE
Renton, WA 98055

Project: TOSCO #5919, Broadway
Project Number: 31022
Project Manager: John Meyer

Sampled: 6/26/98
Received: 6/26/98
Reported: 7/10/98 09:03

Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-7 (continued)				B806590-07			Water	
Chlorobenzene	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	ND	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	
1,4-Dichlorobenzene	"	"	"		1.00	ND	"	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	
1,1-Dichloroethene	"	"	"		1.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		10.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.00	ND	"	
Tetrachloroethene	"	"	"		1.00	ND	"	
1,1,1-Trichloroethane	"	"	"		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	ND	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		103	%	

MW-8				B806590-08			Water	
Bromodichloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	
Chlorobenzene	"	"	"		1.00	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	ND	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	

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ERI	Project: TOSCO #5919, Broadway	Sampled: 6/26/98
1921 Edmonds Drive SE	Project Number: 31022	Received: 6/26/98
Renton, WA 98055	Project Manager: John Meyer	Reported: 7/10/98 09:03

Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-8 (continued)				B806590-08		Water		
1,4-Dichlorobenzene	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	
1,1-Dichloroethene	"	"	"		1.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		10.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.00	ND	"	
Tetrachloroethene	"	"	7/9/98		10.0	152	"	
1,1,1-Trichloroethane	"	"	7/8/98		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	2.92	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		94.8	%	

MW-9				B806590-09		Water		
Bromodichloromethane	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	
Chlorobenzene	"	"	"		1.00	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	ND	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	
1,4-Dichlorobenzene	"	"	"		1.00	ND	"	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	
1,1-Dichloroethene	"	"	"		1.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	

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ERI
1921 Edmonds Drive SE
Renton, WA 98055

Project: TOSCO #5919, Broadway
Project Number: 31022
Project Manager: John Meyer

Sampled: 6/26/98
Received: 6/26/98
Reported: 7/10/98 09:03

Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-9 (continued)				B806590-09			Water	
cis-1,3-Dichloropropene	0780222	7/8/98	7/8/98		1.00	ND	ug/l	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		10.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.00	ND	"	
Tetrachloroethene	"	"	"		1.00	ND	"	
1,1,1-Trichloroethane	"	"	"		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	ND	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		100	%	



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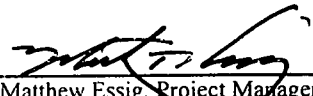
ERI	Project: TOSCO #5919, Broadway	Sampled: 6/26/98
1921 Edmonds Drive SE	Project Number: 31022	Received: 6/26/98
Renton, WA 98055	Project Manager: John Meyer	Reported: 7/10/98 09:03

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: 0780028										
Blank										
Date Prepared: 7/1/98										
0780028-BLK1										
Extraction Method: EPA 5030B (P/T)										
Gasoline Range Hydrocarbons	7/1/98			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		50.8	"	50.0-150	106			
Surrogate: 4-BFB (PID)	"	48.0		54.8	"	50.0-150	114			
LCS										
0780028-BS1										
Gasoline Range Hydrocarbons	7/1/98	500		612	ug/l	70.0-130	122			
Surrogate: 4-BFB (FID)	"	48.0		51.5	"	50.0-150	107			
Duplicate										
0780028-DUP1 B806590-04										
Gasoline Range Hydrocarbons	7/1/98		ND	ND	ug/l				25.0	
Surrogate: 4-BFB (FID)	"	48.0		52.7	"	50.0-150	110			
Duplicate										
0780028-DUP2 B806591-04										
Gasoline Range Hydrocarbons	7/1/98		2650	2450	ug/l				25.0	7.84
Surrogate: 4-BFB (FID)	"	48.0		50.5	"	50.0-150	105			
Matrix Spike										
0780028-MS1 B806590-03										
Benzene	7/2/98	10.0	ND	10.8	ug/l	70.0-130	108			
Toluene	"	10.0	ND	10.3	"	70.0-130	103			
Ethylbenzene	"	10.0	ND	10.3	"	70.0-130	103			
Xylenes (total)	"	30.0	ND	31.2	"	70.0-130	104			
Surrogate: 4-BFB (PID)	"	48.0		56.8	"	50.0-150	118			
Matrix Spike Dup										
0780028-MSD1 B806590-03										
Benzene	7/1/98	10.0	ND	11.0	ug/l	70.0-130	110	15.0	1.83	
Toluene	"	10.0	ND	10.4	"	70.0-130	104	15.0	0.966	
Ethylbenzene	"	10.0	ND	10.4	"	70.0-130	104	15.0	0.966	
Xylenes (total)	"	30.0	ND	30.5	"	70.0-130	102	15.0	1.94	
Surrogate: 4-BFB (PID)	"	48.0		56.3	"	50.0-150	117			

North Creek Analytical, Inc.

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


Matthew Essig, Project Manager

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Page 13 of 16



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 #5919, Broadway
Project Number: 31022
Project Manager: John Meyer

Sampled: 6/26/98
Received: 6/26/98
Reported: 7/10/98 09:03

Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recovery Limits	Recovery %	RPD Limit	RPD %	Notes*
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Batch: 0780222

Date Prepared: 7/8/98

Extraction Method: EPA 5030B [P/T]

Blank

0780222-BLK1

Bromodichloromethane	7/8/98			ND	ug/l	1.00				
Bromoform	"			ND	"	1.00				
Bromomethane	"			ND	"	1.00				
Carbon tetrachloride	"			ND	"	1.00				
Chlorobenzene	"			ND	"	1.00				
Chloroethane	"			ND	"	1.00				
Chloroform	"			ND	"	1.00				
Chloromethane	"			ND	"	1.00				
Dibromochloromethane	"			ND	"	1.00				
1,2-Dichlorobenzene	"			ND	"	1.00				
1,3-Dichlorobenzene	"			ND	"	1.00				
1,4-Dichlorobenzene	"			ND	"	1.00				
1,1-Dichloroethane	"			ND	"	1.00				
1,2-Dichloroethane	"			ND	"	1.00				
1,1-Dichloroethene	"			ND	"	1.00				
cis-1,2-Dichloroethene	"			ND	"	1.00				
trans-1,2-Dichloroethene	"			ND	"	1.00				
1,2-Dichloropropane	"			ND	"	1.00				
cis-1,3-Dichloropropene	"			ND	"	1.00				
trans-1,3-Dichloropropene	"			ND	"	1.00				
Methylene chloride	"			ND	"	10.0				
1,1,2,2-Tetrachloroethane	"			ND	"	1.00				
Tetrachloroethene	"			ND	"	1.00				
1,1,1-Trichloroethane	"			ND	"	1.00				
1,1,2-Trichloroethane	"			ND	"	1.00				
Trichloroethene	"			ND	"	1.00				
Trichlorofluoromethane	"			ND	"	1.00				
Vinyl chloride	"			ND	"	1.00				
Surrogate: 4-BFB (ELCD)	"	10.0		9.88	"	50.0-150	98.8			

LCS

0780222-BS1

Chlorobenzene	7/8/98	10.0		8.32	ug/l	70.0-130	83.2			
1,1-Dichloroethene	"	10.0		11.0	"	70.0-130	110			
Trichloroethene	"	10.0		9.40	"	70.0-130	94.0			
Surrogate: 4-BFB (ELCD)	"	10.0		9.13	"	50.0-150	91.3			

North Creek Analytical, Inc.

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


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ERI
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Renton, WA 98055

Project: TOSCO #5919, Broadway
Project Number: 31022
Project Manager: John Meyer

Sampled: 6/26/98
Received: 6/26/98
Reported: 7/10/98 09:03

Halogenated Volatile Organics by EPA Method 8021B (modified)/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*
Matrix Spike										
	0780222-MS1		B806590-09							
Chlorobenzene	7/8/98	10.0	ND	8.29	ug/l	70.0-130	82.9			
1,1-Dichloroethene	"	10.0	ND	10.7	"	70.0-130	107			
Trichloroethene	"	10.0	ND	9.23	"	70.0-130	92.3			
Surrogate: 4-BFB (ELCD)	"	10.0		9.37	"	50.0-150	93.7			
Matrix Spike Dup										
	0780222-MSD1		B806590-09							
Chlorobenzene	7/8/98	10.0	ND	8.70	ug/l	70.0-130	87.0	20.0	4.83	
1,1-Dichloroethene	"	10.0	ND	11.5	"	70.0-130	115	20.0	7.21	
Trichloroethene	"	10.0	ND	10.1	"	70.0-130	101	20.0	9.00	
Surrogate: 4-BFB (ELCD)	"	10.0		9.30	"	50.0-150	93.0			



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SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

ERI	Project: TOSCO #5919, Broadway	Sampled: 6/26/98
1921 Edmonds Drive SE	Project Number: 31022	Received: 6/26/98
Renton, WA 98055	Project Manager: John Meyer	Reported: 7/10/98 09:03

Notes and Definitions

#	Note
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- | | |
|--------|--|
| 1 | The chromatogram for this sample does not resemble a typical gasoline pattern. Please refer to the sample chromatogram. |
| 2 | The total hydrocarbon result in this sample is primarily due to an individual compound eluting in the volatile hydrocarbon range. Identification and quantitation by EPA method 8010, 8021 or 8240 is recommended. |
| 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 |

North Creek Analytical, Inc.


Matthew Essig, Project Manager

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(425) 481-9200 FAX 485-2992
(509) 924-9200 FAX 924-9290
(503) 906-9200 FAX 906-2202



UNOCAL CHAIN OF CUSTODY REPORT

B806590

Facility Number: 5919 Broadway
Site Address: 1100 Broadway Ave
City, State, ZIP: Seattle, WA
Site Release Number: BBAH/7759/9251/500/930/840/11000/255919
Unocal Manager: TIM JOHNSON
CERT INFO: (check one) ☒ Evaluation ☐ Remediation
☐ Detection ☐ Demolition ☐ Closure ☐ Miscellaneous

CONSULTANT INFORMATION

Firm: *ERI* Project# *31022*
Address: *121 Edmunds Dr SE*
Renton, WA 98055
Phone: *(425) 227-0280* Fax: *x 0225*
Project Manager: *John Meyer*
Sample Collection by: *John Meyer*

Chain of Custody Record #:

Quality Assurance Data Level:

A: Standard Summary

B: Standard + Chromatograms

Laboratory Turnaround Days:

10 5 3 2 1

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W.S.O)	# OF CON- TAINERS
1. <i>NW-1</i>	<i>6/26/98</i>	<i>W</i>	<i>3</i>
2. <i>NW-2</i>			<i>3</i>
3. <i>NW-3</i>			<i>3</i>
4. <i>NW-4</i>			<i>2</i>
5. <i>NW-5</i>			<i>3</i>
6. <i>NW-6</i>			<i>3</i>
7. <i>NW-7</i>			<i>3</i>
8. <i>NW-8</i>			<i>3</i>
9. <i>NW-9</i>			<i>3</i>
10.			

[illegible]

NCA SAMPLE NUMBER

B806590-01

- 02

-03

-04

-65

-06

-07

-08

-0-

Relinquished by

Firm:

Date & Time

Received by:

Firm:

Date & Time

1. *[Signature]* ER1 6/26/98 *[Signature]* NCT 6/26/98 16:00
2. *[Signature]* NCA 6/26/98 17:20 *[Signature]* NCA 6/26/98 17:20
3.

Final Report Approval

Were all requested results provided? ☒ yes ☐ no Define

Were results within requested turnaround? ☒ yes ☐ no "No"

Final Approval Signature:

on back

Firm:

Date:

Page 7 of 7
Key UNODC 10-97

Comments:

Distribution:	White	Laboratory	Yellow	Consultant	Photocopy	Copyright
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