

January 5, 2000

Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RECEIVED
12:58 pm, Apr 30, 2009
Alameda County
Environmental Health

41-0239-01

ATTN: MR. DAVID DEWITT

SITE: TOSCO 76 SERVICE STATION 5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

RE: DUAL-PHASE VACUUM EXTRACTION EVENT REPORT

Dear Mr. DeWitt:

Please find enclosed the results of a Dual-Phase Extraction Event conducted at Tosco 76 Service Station 5043, located at 449 Hegenberger Road, Oakland, California. The contents of this report include:

Summary Sheet

Figure: Site Plan

Tables: (1) Mobile Treatment System Vacuum Extraction Data
(2) Well Data

Charts: (1) Influent TPH Concentrations and Total Vapor-Phase Hydrocarbons Versus Time
(2) Benzene and MTBE Vapor-Phase Concentrations Versus Time for MW-6

Appendix: Dual-Phase Vacuum Extraction Field Sheets and Analytical Laboratory Data Sheets

If you have any questions please call me at (925) 688-2474.

Sincerely,

Tom Seeliger
Associate

p:/projects/tosco/5043/5043mts.doc

256043 SS x DP
x 1 TRANSMITTAL
3 4 5

Alton Geoscience, Inc.

Dual-Phase Extraction Test Report

Summary Sheet

Tosco 76 Service Station 5043
 449 Hegenberger Road
 Oakland, California

BAAQMD# NA
 NPDES# NA

DUAL-PHASE EXTRACTION PERFORMANCE	
Date(s) of Event(s):	11/19/99 - 11/24/99
Total Operating Hours:	120
Technology Used:	High-vacuum liquid-ring pump with Thermal Oxidizer
Extraction Wells with Max/Min Vapor Concentration (ppmv):	MW-6 (11,400 / 230) MW-7 (2400 / 300)
Max/Min Flow Rate for Extraction Wells (cfm):	MW-6 (323 / 138) MW-7 (159 / 150)
Max/Min Vacuum for Extraction Wells (in Hg):	MW-6 (26 / 22) MW-7 (24 / 22)
Total Recovery Volume by Vapor (gallons/pounds):	52.45 / 328.36
Total Recovery Volume by Water (gallons):	< 1,000 #

LABORATORY ANALYSIS OF GROUND WATER SAMPLES									
Sample Date(s):	11/24/99								
Well Number (s):	MW-6								
Well ID	Date	Time Sampled	Sample Result (ug/L)						
			TPH-G	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	
MW-6	11/24/99	8:30	6,500,000	9,500	47,000	29,000	310,000	N.D.<25,000	

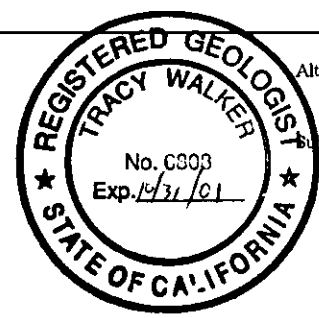
LABORATORY ANALYSIS OF VAPOR SAMPLES									
Sample Date(s):	11/19-11/24/99								
Well Number (s):	MW-6								
Well ID	Date	Time Sampled	Sample Result (ppmv)						
			TPH-G	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	
MW-6	11/19/99	8:30	1,300	36	97	44	230	33	
MW-6	11/20/99	8:30	1,000	12	75	25	150	20	
MW-6	11/21/99	8:30	1,100	11	60	20	120	7.6	
MW-6	11/22/99	8:30	160	2.2	7.7	1.7	11	N.D.<6.9	
MW-6	11/23/99	8:30	180	3.0	12	3.2	19	3.0	
MW-6	11/24/99	8:00	300	4.1	16	4.7	32	3.5	

ADDITIONAL INFORMATION:

= The <1,000 gallons of water generated during the 11/19-24/99 dual-phase extraction event vapor extraction test was removed from the site by vacuum truck.

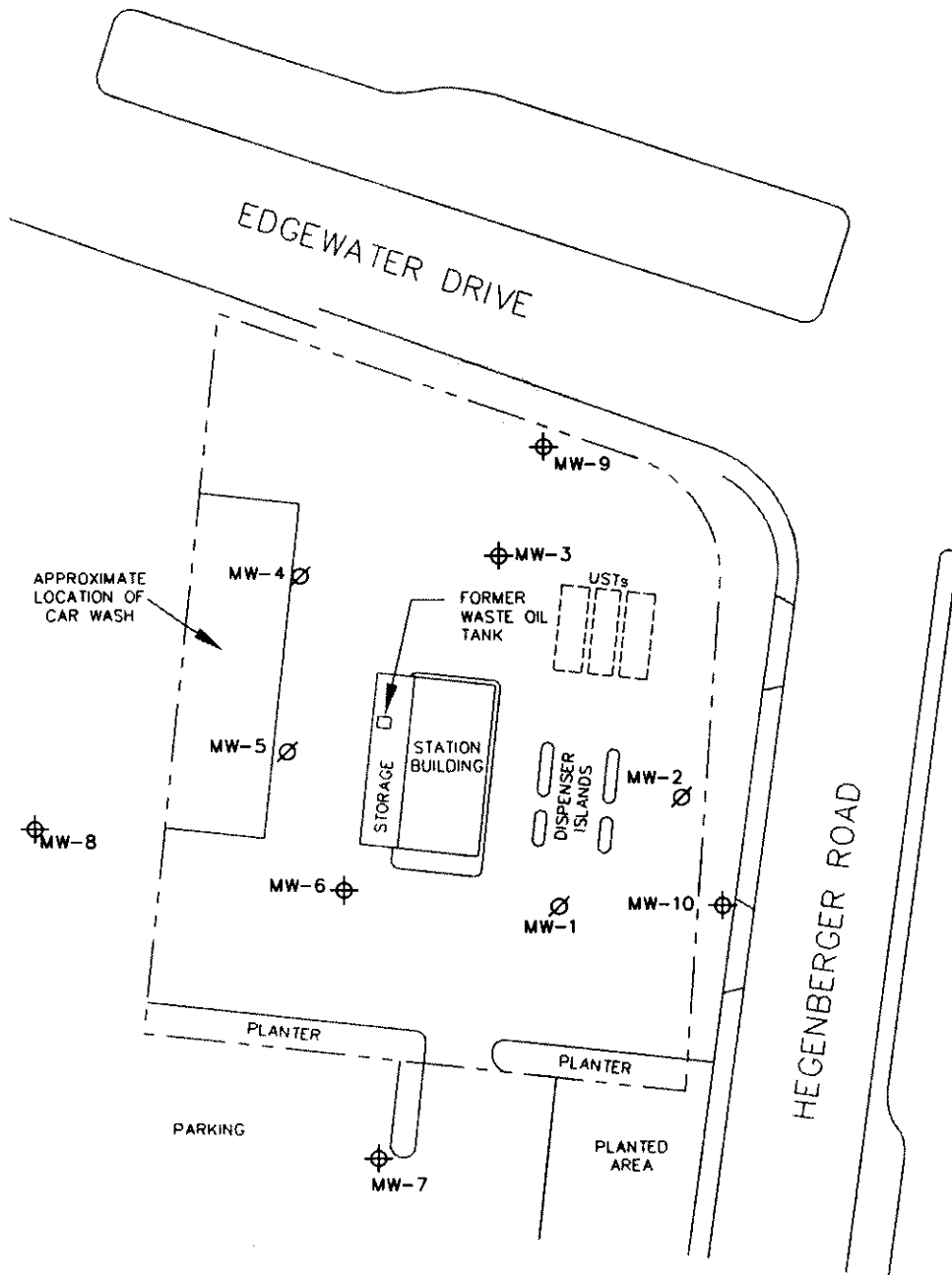
ppmv = parts per million by volume
 cfm = cubic feet per minute
 in Hg = inches of mercury
 TPH-G = total petroleum hydrocarbons as gasoline
 MTBE = Methyl Tert-Butyl Ether
 ug/L = micrograms per liter
 N.D. = not detectable

Prepared by: Chris Smiga Chris Smiga
 Approved by: Tracy R. Walker Tracy Walker, RG



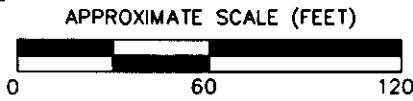
Alton Project No: 41-0239
 Submittal Date: 5-Jan-00

FIGURE



LEGEND

- ⊕ Monitoring Well
- ⊘ Destroyed Well
- Approximate Property Boundary



SOURCE: Gettler-Ryan Inc. and MPDS Services, Inc.

SITE PLAN
 Tosco 76 Service Station No. 5043
 449 Hegenberger Road
 Oakland, California

FIGURE

TABLES

Table 1
MOBILE TREATMENT SYSTEM VACUUM EXTRACTION DATA
Tosco 76 Service Station 5043 11/19/99 - 11/24/99

DATE & TIME	OPERATING TIME (HOURS)	TOTAL SYSTEM MEASUREMENTS					EXTRACTION WELL(S) OPEN
		INLET BLOWER VACUUM (IN. OF Hg)	INLET FLOW (CFM)	CONCENTRATION* (undiluted) (PPMV)	CUMULATIVE HYDROCARBON RECOVERY		
					(POUNDS)	(GAL) **	
11/19/99 8:30	0	26.0	159.0	11400	0.00	0.00	MW-6
11/19/99 9:00	0.5	26.0	159.0	6200	11.63	1.86	MW-6
11/19/99 9:30	1.0	25.0	159.0	2440	17.34	2.77	MW-6
11/19/99 10:00	1.5	25.0	159.0	4400	21.86	3.49	MW-6
11/19/99 10:30	2.0	25.0	159.0	4200	27.54	4.40	MW-6
11/19/99 11:00	2.5	25.0	159.0	2400	31.90	5.10	MW-6
11/19/99 11:30	3.0	25.0	159.0	2200	34.94	5.58	MW-6
11/19/99 12:00	3.5	25.0	159.0	2200	37.85	6.05	MW-6
11/19/99 12:30	4.0	25.0	159.0	2400	40.89	6.53	MW-6
11/19/99 13:00	4.5	25.0	159.0	2200	43.93	7.02	MW-6
11/19/99 13:30	5.0	24.0	163.0	3000	47.41	7.57	MW-6
11/19/99 14:00	5.5	24.0	168.0	3400	51.81	8.28	MW-6
11/19/99 14:30	6.0	24.0	163.0	4400	57.17	9.13	MW-6
11/19/99 15:00	6.5	24.0	163.0	4200	63.00	10.06	MW-6
11/19/99 15:30	7.0	24.0	163.0	3400	68.15	10.89	MW-6
11/19/99 16:00	7.5	24.0	163.0	3400	72.75	11.62	MW-6
11/19/99 16:30	8.0	24.0	168.0	3200	77.29	12.35	MW-6
11/19/99 17:00	8.5	24.0	168.0	2200	81.06	12.95	MW-6
11/19/99 17:30	9.0	24.0	168.0	1900	83.93	13.41	MW-6
11/19/99 18:00	9.5	24.0	168.0	2280	86.84	13.87	MW-6
11/19/99 18:30	10.0	24.0	168.0	3240	90.70	14.49	MW-6
11/19/99 19:00	10.5	24.0	163.0	2780	94.84	15.15	MW-6
11/19/99 19:30	11.0	24.0	165.5	2600	98.51	15.74	MW-6
11/19/99 20:00	11.5	24.0	163.0	2800	102.20	16.33	MW-6
11/19/99 20:30	12.0	24.0	163.0	2820	106.00	16.93	MW-6
11/19/99 21:00	12.5	24.0	163.0	2720	109.76	17.53	MW-6
11/19/99 21:30	13.0	24.0	163.0	2710	113.44	18.12	MW-6
11/19/99 22:00	13.5	24.0	163.0	2730	117.12	18.71	MW-6

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DATE & TIME	OPERATING TIME (HOURS)	TOTAL SYSTEM MEASUREMENTS					EXTRACTION WELL(S) OPEN
		INLET BLOWER VACUUM (IN. OF Hg)	INLET FLOW (CFM)	CONCENTRATION* (undiluted) (PPMV)	CUMULATIVE HYDROCARBON RECOVERY		
					(POUNDS)	(GAL) **	
11/19/99 22:30	14.0	24.0	163.0	2740	120.83	19.30	MW-6
11/19/99 23:00	14.5	24.0	163.0	2730	124.53	19.89	MW-6
11/19/99 23:30	15.0	24.0	159.0	2400	127.96	20.44	MW-6
11/20/99 0:00	15.5	24.0	163.0	2630	131.33	20.98	MW-6
11/20/99 0:30	16.0	24.0	163.0	2610	134.88	21.55	MW-6
11/20/99 1:00	16.5	24.0	163.0	2570	138.39	22.11	MW-6
11/20/99 1:30	17.0	24.0	163.0	2540	141.85	22.66	MW-6
11/20/99 2:00	17.5	24.0	163.0	2270	145.11	23.18	MW-6
11/20/99 2:30	18.0	24.0	163.0	2160	148.11	23.66	MW-6
11/20/99 3:00	18.5	24.0	163.0	1660	150.70	24.07	MW-6
11/20/99 3:30	19.0	24.0	163.0	1620	152.92	24.43	MW-6
11/20/99 4:00	19.5	24.0	163.0	1620	155.11	24.78	MW-6
11/20/99 4:30	20.0	24.0	163.0	1600	157.29	25.13	MW-6
11/20/99 5:00	20.5	24.0	163.0	1500	159.39	25.46	MW-6
11/20/99 5:30	21.0	24.0	183.0	1000	161.19	25.75	MW-6
11/20/99 6:00	21.5	24.0	186.0	700	162.49	25.96	MW-6
11/20/99 6:30	22.0	24.0	186.0	700	163.58	26.13	MW-6
11/20/99 7:00	22.5	24.0	186.0	690	164.65	26.30	MW-6
11/20/99 7:30	23.0	24.0	186.0	500	165.57	26.45	MW-6
11/20/99 8:00	23.5	24.0	186.0	540	166.38	26.58	MW-6
11/20/99 8:30	24.0	24.0	183.0	540	167.20	26.71	MW-6
11/20/99 9:00	24.5	25.0	183.0	500	167.99	26.84	MW-6
11/20/99 9:30	25.0	25.0	183.0	490	168.75	26.96	MW-6
11/20/99 10:00	25.5	25.0	183.0	470	169.48	27.07	MW-6
11/20/99 10:30	26.0	25.0	183.0	480	170.20	27.19	MW-6
11/20/99 11:00	26.5	25.0	183.0	480	170.93	27.31	MW-7
11/20/99 11:30	27.0	25.0	183.0	480	171.66	27.42	MW-7
11/20/99 12:00	27.5	25.0	183.0	400	172.33	27.53	MW-6

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MOBILE TREATMENT SYSTEM VACUUM EXTRACTION DATA
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DATE & TIME	OPERATING TIME (HOURS)	TOTAL SYSTEM MEASUREMENTS					EXTRACTION WELL(S) OPEN
		INLET BLOWER VACUUM (IN. OF Hg)	INLET FLOW (CFM)	CONCENTRATION* (undiluted) (PPMV)	CUMULATIVE HYDROCARBON RECOVERY		
					(POUNDS)	(GAL) **	
11/20/99 13:00	28.5	25.0	183.0	400	173.55	27.72	MW-6
11/20/99 13:30	29.0	25.0	183.0	400	174.15	27.82	MW-6
11/20/99 14:00	29.5	25.0	183.0	400	174.76	27.92	MW-6
11/20/99 14:30	30.0	25.0	187.0	380	175.36	28.01	MW-6
11/20/99 15:00	30.5	25.0	187.0	380	175.95	28.11	MW-6
11/20/99 15:30	31.0	25.0	187.0	400	176.56	28.20	MW-6
11/20/99 16:00	31.5	25.0	187.0	360	177.15	28.30	MW-6
11/20/99 16:30	32.0	25.0	187.0	300	177.66	28.38	MW-6
11/20/99 17:00	32.5	25.0	187.0	300	178.13	28.46	MW-6
11/20/99 17:30	33.0	25.0	187.0	280	178.58	28.53	MW-6
11/20/99 18:00	33.5	25.0	187.0	300	179.03	28.60	MW-6
11/20/99 18:30	34.0	25.0	187.0	300	179.50	28.67	MW-6
11/20/99 19:00	34.5	25.0	187.0	290	179.96	28.75	MW-6
11/20/99 19:30	35.0	24.0	198.0	340	180.46	28.83	MW-6
11/20/99 20:00	35.5	24.0	200.0	440	181.10	28.93	MW-6
11/20/99 20:30	36.0	24.0	200.0	440	181.84	29.05	MW-6
11/20/99 21:00	36.5	24.0	205.0	920	182.98	29.23	MW-6
11/20/99 21:30	37.0	24.0	203.0	1000	184.61	29.49	MW-6
11/20/99 22:00	37.5	24.0	205.0	1120	186.41	29.78	MW-6
11/20/99 22:30	38.0	24.0	208.0	1090	188.30	30.08	MW-6
11/20/99 23:00	38.5	24.0	216.0	1110	190.24	30.39	MW-6
11/20/99 23:30	39.0	24.0	213.0	1060	192.17	30.70	MW-6
11/21/99 0:00	39.5	24.0	218.0	1040	194.06	31.00	MW-6
11/21/99 0:30	40.0	24.0	213.0	1030	195.91	31.30	MW-6
11/21/99 1:00	40.5	24.0	216.0	1070	197.78	31.59	MW-6
11/21/99 1:30	41.0	24.0	216.0	1060	199.69	31.90	MW-6
11/21/99 2:00	41.5	24.0	216.0	1110	201.64	32.21	MW-6
11/21/99 2:30	42.0	24.0	216.0	1110	203.63	32.53	MW-6

Table 1
MOBILE TREATMENT SYSTEM VACUUM EXTRACTION DATA

Tosco 76 Service Station 5043 11/19/99 - 11/24/99

DATE & TIME	OPERATING TIME (HOURS)	TOTAL SYSTEM MEASUREMENTS					EXTRACTION WELL(S) OPEN
		INLET BLOWER VACUUM (IN OF Hg)	INLET FLOW (CFM)	CONCENTRATION* (undiluted) (PPMV)	CUMULATIVE HYDROCARBON RECOVERY		
					(POUNDS)	(GAL) **	
11/21/99 3:00	42.5	24.0	205.0	680	205.20	32.78	MW-6
11/21/99 3:30	43.0	24.0	209.0	640	206.34	32.96	MW-6
11/21/99 4:00	43.5	24.0	216.0	440	207.29	33.11	MW-6
11/21/99 4:30	44.0	24.0	221.0	400	208.05	33.24	MW-6
11/21/99 5:00	44.5	24.0	228.0	400	208.80	33.35	MW-6
11/21/99 5:30	45.0	24.0	221.0	350	209.50	33.47	MW-6
11/21/99 6:00	45.5	24.0	228.0	360	210.16	33.57	MW-6
11/21/99 6:30	46.0	24.0	223.0	330	210.81	33.68	MW-6
11/21/99 7:00	46.5	24.0	235.0	380	211.48	33.78	MW-6
11/21/99 7:30	47.0	24.0	235.0	350	212.20	33.90	MW-6
11/21/99 8:00	47.5	24.0	238.0	340	212.87	34.01	MW-6
11/21/99 8:30	48.0	24.0	238.0	320	213.53	34.11	MW-6
11/21/99 9:00	48.5	24.0	238.0	300	214.14	34.21	MW-6
11/21/99 9:30	49.0	24.0	251.0	450	214.90	34.33	MW-6
11/21/99 10:00	49.5	24.0	260.0	400	215.80	34.47	MW-6
11/21/99 10:30	50.0	24.0	260.0	390	216.66	34.61	MW-6
11/21/99 11:00	50.5	24.0	258.0	390	217.50	34.74	MW-6
11/21/99 11:30	51.0	24.0	258.0	400	218.34	34.88	MW-6
11/21/99 12:00	51.5	24.0	258.0	300	219.10	35.00	MW-6
11/21/99 12:30	52.0	24.0	258.0	310	219.75	35.10	MW-6
11/21/99 13:00	52.5	24.0	258.0	300	220.40	35.21	MW-6
11/21/99 13:30	53.0	24.0	258.0	290	221.04	35.31	MW-6
11/21/99 14:00	53.5	24.0	258.0	350	221.72	35.42	MW-6
11/21/99 14:30	54.0	24.0	258.0	350	222.47	35.54	MW-6
11/21/99 15:00	54.5	24.0	258.0	300	223.17	35.65	MW-6
11/21/99 15:30	55.0	24.0	238.0	310	223.80	35.75	MW-6
11/21/99 16:00	55.5	24.0	238.0	310	224.41	35.85	MW-6
11/21/99 16:30	56.0	24.0	238.0	300	225.01	35.94	MW-6

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		INLET BLOWER VACUUM (IN OF Hg)	INLET FLOW (CFM)	CONCENTRATION* (undiluted) (PPMV)	CUMULATIVE HYDROCARBON RECOVERY		
					(POUNDS)	(GAL)**	
11/21/99 17:00	56.5	24.0	251.0	300	225.62	36.04	MW-6
11/21/99 17:30	57.0	24.0	251.0	290	226.24	36.14	MW-6
11/21/99 18:00	57.5	24.0	251.0	300	226.86	36.24	MW-6
11/21/99 18:30	58.0	24.0	251.0	310	227.49	36.34	MW-6
11/21/99 19:00	58.5	24.0	251.0	300	228.13	36.44	MW-6
11/21/99 19:30	59.0	24.0	251.0	300	228.75	36.54	MW-6
11/21/99 20:00	59.5	24.0	277.0	230	229.34	36.64	MW-6
11/21/99 20:30	60.0	24.0	289.0	360	230.03	36.75	MW-6
11/21/99 21:00	60.5	24.0	291.0	370	230.91	36.89	MW-6
11/21/99 21:30	61.0	24.0	298.0	500	231.97	37.06	MW-6
11/21/99 22:00	61.5	24.0	323.0	850	233.72	37.33	MW-6
11/21/99 22:30	62.0	24.0	315.0	1050	236.23	37.74	MW-6
11/21/99 23:00	62.5	24.0	313.0	930	238.82	38.15	MW-6
11/21/99 23:30	63.0	24.0	156.0	920	240.62	38.44	MW-6
11/22/99 0:00	63.5	24.0	156.0	940	241.83	38.63	MW-6
11/22/99 0:30	64.0	24.0	156.0	930	243.04	38.82	MW-6
11/22/99 1:00	64.5	24.0	156.0	930	244.25	39.02	MW-6
11/22/99 1:30	65.0	24.0	156.0	930	245.45	39.21	MW-6
11/22/99 2:00	65.5	24.0	156.0	980	246.69	39.41	MW-6
11/22/99 2:30	66.0	24.0	156.0	970	247.95	39.61	MW-6
11/22/99 3:00	66.5	24.0	156.0	940	249.19	39.81	MW-6
11/22/99 3:30	67.0	24.0	156.0	950	250.42	40.00	MW-6
11/22/99 4:00	67.5	24.0	156.0	940	251.64	40.20	MW-6
11/22/99 4:30	68.0	24.0	156.0	940	252.86	40.39	MW-6
11/22/99 5:00	68.5	24.0	156.0	950	254.09	40.59	MW-6
11/22/99 5:30	69.0	24.0	156.0	950	255.32	40.79	MW-6
11/22/99 6:00	69.5	24.0	156.0	940	256.54	40.98	MW-6
11/22/99 6:30	70.0	24.0	156.0	940	257.76	41.18	MW-6

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		INLET BLOWER VACUUM (IN. OF Hg)	INLET FLOW (CFM)	CONCENTRATION* (undiluted) (PPMV)	CUMULATIVE HYDROCARBON RECOVERY		
					(POUNDS)	(GAL) **	
11/22/99 7:00	70.5	24.0	156.0	940	258.98	41.37	MW-6
11/22/99 7:30	71.0	24.0	156.0	940	260.20	41.57	MW-6
11/22/99 8:00	71.5	24.0	162.0	1040	261.51	41.77	MW-6
11/22/99 8:30	72.0	24.0	162.0	1040	262.91	42.00	MW-6
11/22/99 9:00	72.5	24.0	162.0	1020	264.30	42.22	MW-6
11/22/99 9:30	73.0	24.0	162.0	1020	265.67	42.44	MW-6
11/22/99 10:00	73.5	24.0	162.0	1020	267.04	42.66	MW-6
11/22/99 10:30	74.0	24.0	162.0	1040	268.43	42.88	MW-6
11/22/99 11:00	74.5	24.0	162.0	1020	269.82	43.10	MW-6
11/22/99 11:30	75.0	24.0	162.0	1040	271.20	43.32	MW-6
11/22/99 12:00	75.5	24.0	162.0	1020	272.59	43.54	MW-6
11/22/99 13:00	76.5	24.0	163.0	1040	275.37	43.99	MW-6
11/22/99 14:00	77.5	24.0	163.0	1090	278.26	44.45	MW-6
11/22/99 15:00	78.5	24.0	163.0	1010	281.10	44.90	MW-6
11/22/99 16:00	79.5	24.0	163.0	1100	283.96	45.36	MW-6
11/22/99 17:00	80.5	24.0	163.0	890	286.66	45.79	MW-6
11/22/99 18:00	81.5	24.0	163.0	790	288.93	46.16	MW-6
11/22/99 19:00	82.5	24.0	156.0	740	290.96	46.48	MW-6
11/22/99 20:00	83.5	24.0	159.0	710	292.86	46.78	MW-6
11/22/99 21:00	84.5	24.0	166.0	660	294.71	47.08	MW-6
11/22/99 22:00	85.5	24.0	166.0	640	296.50	47.36	MW-6
11/22/99 23:00	86.5	24.0	149.0	640	298.18	47.63	MW-6
11/23/99 0:00	87.5	24.0	169.0	620	299.85	47.90	MW-6
11/23/99 1:00	88.5	22.0	150.0	580	301.44	48.15	MW-6
11/23/99 2:00	89.5	22.0	146.0	620	302.91	48.39	MW-6
11/23/99 3:00	90.5	22.0	150.0	910	304.79	48.69	MW-7
11/23/99 3:30	91.0	22.0	150.0	430	305.63	48.82	MW-7
11/23/99 4:00	91.5	22.0	159.0	300	306.10	48.90	MW-7

Table 1
MOBILE TREATMENT SYSTEM VACUUM EXTRACTION DATA
Tosco 76 Service Station 5043 11/19/99 - 11/24/99

DATE & TIME	OPERATING TIME (HOURS)	TOTAL SYSTEM MEASUREMENTS					EXTRACTION WELL(S) OPEN
		INLET BLOWER VACUUM (IN OF Hg)	INLET FLOW (CFM)	CONCENTRATION* (undiluted) (PPMV)	CUMULATIVE HYDROCARBON RECOVERY		
					(POUNDS)	(GAL) **	
11/23/99 5:00	92.5	24.0	156.0	400	307.01	49.04	MW-6
11/23/99 6:00	93.5	24.0	140.0	350	307.94	49.19	MW-6
11/23/99 7:00	94.5	24.0	140.0	340	308.74	49.32	MW-6
11/23/99 8:00	95.5	24.0	140.0	340	309.53	49.45	MW-6
11/23/99 9:00	96.5	24.0	140.0	340	310.32	49.57	MW-6
11/23/99 10:00	97.5	24.0	140.0	320	311.09	49.69	MW-6
11/23/99 11:00	98.5	24.0	140.0	340	311.86	49.82	MW-6
11/23/99 12:00	99.5	24.0	140.0	340	312.65	49.94	MW-6
11/23/99 13:00	100.5	24.0	140.0	340	313.44	50.07	MW-6
11/23/99 14:00	101.5	24.0	140.0	340	314.23	50.20	MW-6
11/23/99 15:00	102.5	24.0	140.0	340	315.02	50.32	MW-6
11/23/99 16:00	103.5	24.0	140.0	340	315.81	50.45	MW-6
11/23/99 17:00	104.5	24.0	140.0	300	316.56	50.57	MW-6
11/23/99 18:00	105.5	24.0	138.0	290	317.24	50.68	MW-6
11/23/99 19:00	106.5	24.0	138.0	280	317.90	50.78	MW-6
11/23/99 20:00	107.5	24.0	140.0	260	318.52	50.88	MW-6
11/23/99 21:00	108.5	24.0	140.0	260	319.12	50.98	MW-6
11/23/99 22:00	109.5	24.0	140.0	260	319.73	51.07	MW-6
11/23/99 23:00	110.5	24.0	140.0	260	320.33	51.17	MW-6
11/24/99 0:00	111.5	24.0	140.0	270	320.95	51.27	MW-6
11/24/99 1:00	112.5	24.0	140.0	280	321.59	51.37	MW-6
11/24/99 2:00	113.5	24.0	150.0	280	322.27	51.48	MW-6
11/24/99 3:00	114.5	24.0	140.0	270	322.93	51.59	MW-6
11/24/99 4:00	115.5	24.0	140.0	260	323.55	51.68	MW-6
11/24/99 5:00	116.5	24.0	140.0	280	324.17	51.78	MW-6
11/24/99 6:00	117.5	24.0	140.0	280	324.83	51.89	MW-6
11/24/99 7:00	118.5	24.0	140.0	700	325.97	52.07	MW-6
11/24/99 8:00	119.5	24.0	140.0	680	327.57	52.33	MW-6

Table 1
MOBILE TREATMENT SYSTEM VACUUM EXTRACTION DATA

Tosco 76 Service Station 5043 11/19/99 - 11/24/99

DATE & TIME	OPERATING TIME (HOURS)	TOTAL SYSTEM MEASUREMENTS					EXTRACTION WELL(S) OPEN
		INLET BLOWER VACUUM (IN OF Hg)	INLET FLOW (CFM)	CONCENTRATION* (undiluted) (PPMV)	CUMULATIVE HYDROCARBON RECOVERY		
					(POUNDS)	(GAL) **	
11/24/99 8:30	120.0	24.0	140.0	680	328.36	52.45	
TOTAL HYDROCARBONS RECOVERED					328.36	52.45	
TOTAL WATER RECOVERED (GAL)					<1,000		

GAL = gallons

CFM = cubic feet per minute

PPMV = parts per million per volume

IN OF HG = inches of mercury

* = Concentrations are based on field measurements taken with a Horiba Hydrocarbon Analyzer.

** = Based on hydrocarbon density of 6.26 pounds/gallon.

Table 2
WELL DATA
Tosco 76 Service Station 5043
11/19/99 - 11/24/99

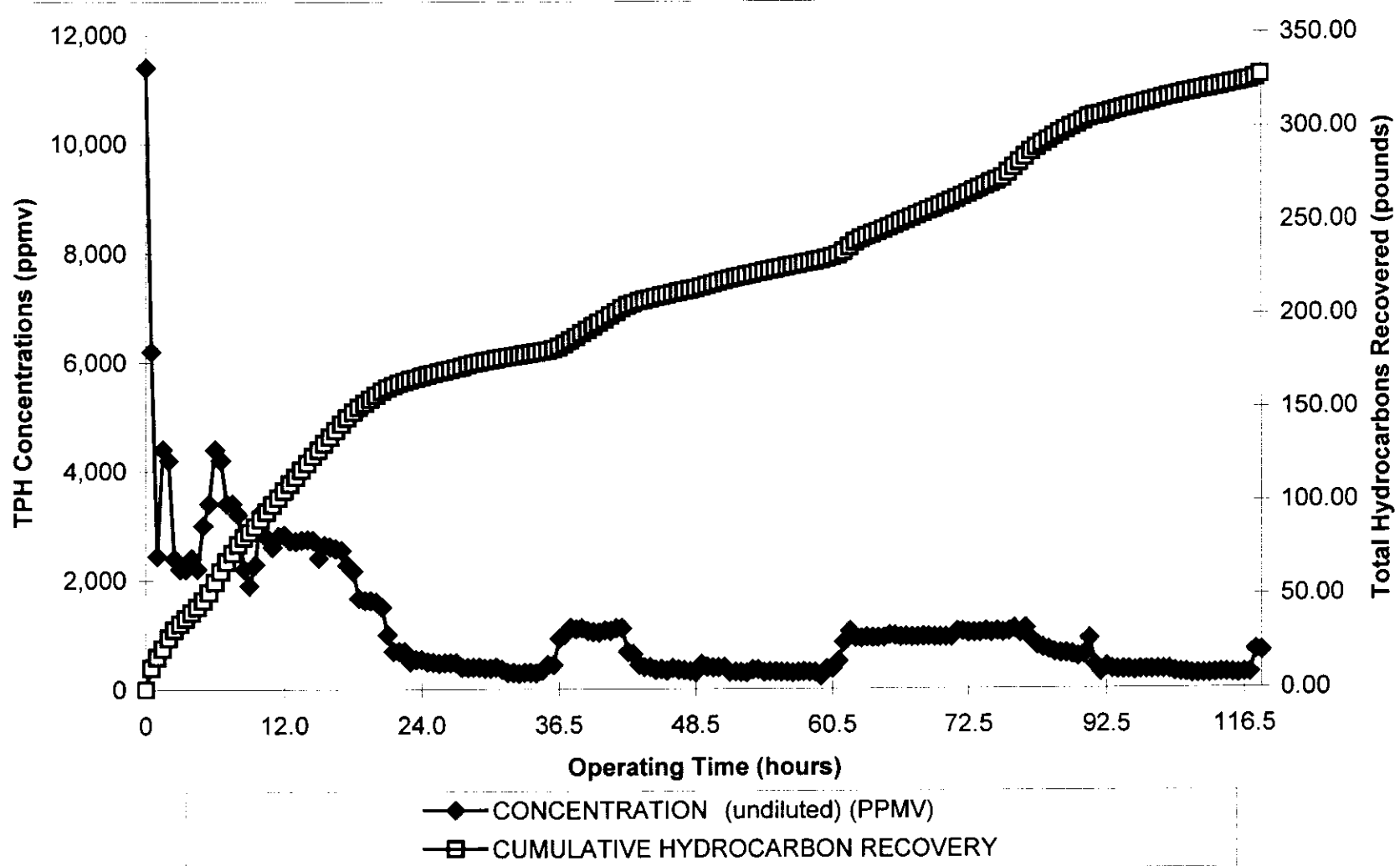
Date & Time	Inlet Blower Vacuum (Inches of H2O)	Wellhead Vacuum (Inches of H2O)			Well Depth to Water (Feet)			
		MW-3	MW-7	MW-10	MW-3	MW-6	MW-7	MW-10
11/19/99 8:00	*	*	*	*	2.50	3.40	2.10	3.85
11/19/99 8:30	354.12	0	0	0	2.30	*	3.00	3.70
11/19/99 10:00	340.50	0	0	0	2.30	*	3.00	3.70
11/19/99 12:00	340.50	0	0	0	2.30	*	3.00	3.70
11/19/99 14:00	326.88	0	0	0	2.30	*	3.30	3.70
11/19/99 16:00	326.88	0	0	0	2.30	*	3.50	3.70
11/19/99 18:00	326.88	0	*	0	2.30	*	3.50	3.70
11/19/99 21:00	326.88	0	*	0	2.30	*	*	3.70
11/20/99 0:00	326.88	0	*	0	2.30	*	*	3.70
11/20/99 3:00	326.88	0	*	0	2.25	*	*	3.80

* = Indicates reading not taken.

CHARTS

Influent TPH Concentrations and Total Vapor-Phase Hydrocarbons Versus Time

Tosco 76 Service Station 5043 11/19/99 - 11/24/99



Benzene and MTBE Vapor-Phase Concentrations Vs. Time for MW-6

Tosco 76 Service Station 5043

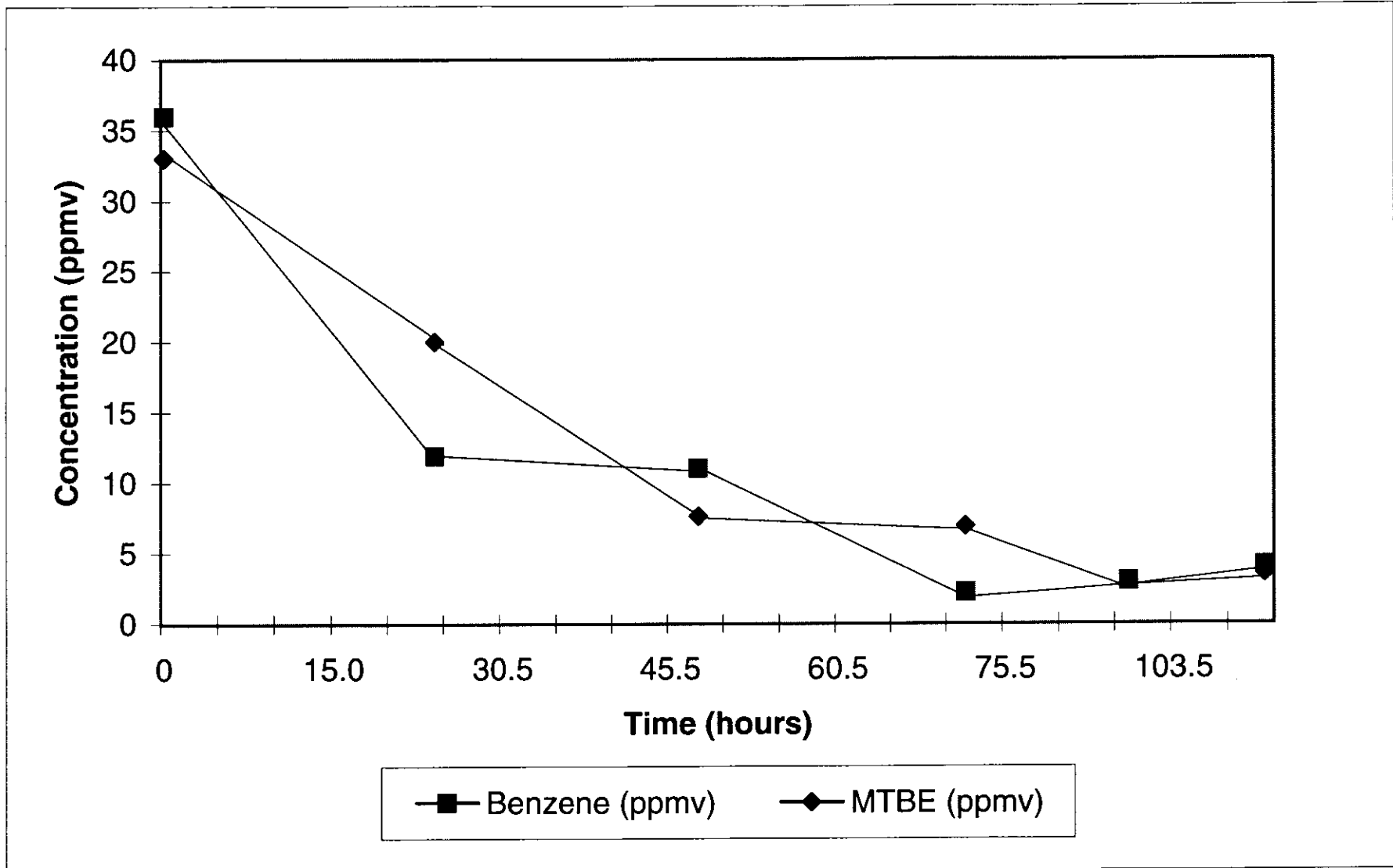


CHART 2

APPENDIX

Dual-Phase Vacuum Extraction Field Sheet

Project No.: 41-0239-01
 Task No.: UAP1
 Technician: C. Brues + S. Van Gorder

Client: BOCO
 Site: TOSCO 5043
 Date: 11-19-99

Cumulative Wells and System Operation								Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4				
								mw-6																
								3.4																
								3.5																
								19430																
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)
8:30 PM	11400	26	159			1420		1				3												
9:00	6200	1	159			1410		1				3												
30	2940	25	159			1420		1				5												
10:00	4460	1	159			1421		1				7												
30	4200	25	159			1421		1				87												
11:00	2900	1	159			1420		1																
30	2700	25	159			1400		1																
12:00	2200	1	159			1420		1																
30	2900	25	159			1421		1																
1:10	2200		159			1425		1																
30	3000	24	163			1425		1				10												
2:00	3900		168			1410		1																
30	4900		163			1400		1																
3:00	4200		163			1410		1																
30	3100		163			1410		1																
4:00	3900		163			1400		1				9 ft												
30	3200		168			1410		1																
5:00	2200		168			1400		1																
30	1900		168			1410		1																
6:00	2230		168			1408		1				10 ft												
30	2040		168			1410		1				10 ft												
7:00	2780	24	163			1400		1				10 ft												
30	2600	24	165.5			1400		1				10 ft												
8:00	2800	24	163			1410		1				10 ft												
30m	2820	24	163			1420		1				10 ft												

Notes:

Dual-Phase Vacuum Extraction Field Sheet

Project No.: 41-0239-01
 Task No.: UA01
 Technician: CB S. Van Gorder

Client: 70300
 Site: 5043
 Date: 11-19-11-20

Cumulative Wells and System Operation								Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4				
Well ID:								MW6																
DTW (ft):																								
Depth to FP (ft):																								
Screen Int. (ft):																								
Casing Diam. (in.):																								
DO (mg/L):																								
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)
9:00 pm	2720	24	163			1400		1				10												
30	2710	24	163			1410		1				10												
10:00	2730	24	163			1400		1				10												
30	2740	24	163			1400		1				10												
11:00	2730	24	163			1400		1				10												
30	2400	24	159			1400		1				10												
12:00 pm	2630	24	163			1400		1				10												
30	2610	24	163			1410		1				10												
1:00	2570	24	167			1400		1				10												
30	2540	24	163			1400		1				10												
2:00	2270	24	163			1420		1				10												
30	2160	24	163			1410		1				10												
3:00	1660	24	163			1400		1				9												
30	1620	24	163			1400		1				9												
4:00	1620	24	163			1395		1				10												
30	1600	24	163			1400		1				10												
5:00	1580	24	163			1400		1				10												
30	1000	24	183			1410		1				10												
6:00	700	24	186			1400		1				10												
30	700	24	186			1400		1				10												
7:00	690	24	186			1410		1				10												
30	500	24	186			1400		1				10												
8:00	540	24	186			1400		1				10												
30	540	24	183			1410		1				10												
9:00 AM	500	25	173			1410		1				9												

Notes:

Dual-Phase Vacuum Extraction Field Sheet

Project No.: 41-0239-01
 Task No.: UA01
 Technician: Chinese / S. Van Gorder

Client: BoSCO
 Site: 5043
 Date: 11-20-99

Cumulative Wells and System Operation								Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4				
Well ID:								mw6				mw7												
OTW (ft):																								
Depth to FP (ft):																								
Screen Int. (ft):																								
Casing Diam. (in):																								
DO (mg/L):																								
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)
930		490	25	183		1410		1				8ft												
1000		470	25	183		1400																		
1030		480	25	183		1405																		
1100		480	25	183		1400							15	2400	24	321								
1130		480	25	183		1400							15	400	24	324								
1200pm		400	25	183		1410						10ft												
100		400	25	183		1400																		
120		400	25	183		1400																		
200		400	25	183		1400						7ft												
300		320		187		1400																		
300		380		187		1410																		
350		400		187		1400																		
400		360		187																				
430		500		187								8ft												
500		300		187																				
530		280		187																				
600		300		187																				
630		300		187								10ft												
700		290	25	187																				
730		340	24	188		1400						10ft												
700		440	24	200		1400						12ft												
830		440	24	200		1410						10ft												
900		420	24	205		1400						10ft												
930		1000	24	203		1400						10ft												
1000		1120	24	205		1405						12ft												

Notes:

Dual-Phase Vacuum Extraction Field Sheet

Project No.: 41-0239-01
 Task No.: VFA01
 Technician: S. VAN GORDER / cbw

Client: Tosco
 Site: 5043
 Date: 11/20/99 - 11/21/99

Cumulative Wells and System Operation								Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4				
Well ID:								MW6																
DTW (ft):																								
Depth to FP (ft):																								
Screen Int. (ft):																								
Casing Diam. (in):																								
DO (mg/L):																								
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)
10:30		1090	24	228		1400		1				10 FT.												
11:00		1116	24	216		1400		1				10 FT.												
11:30		1060	24	213		1416		1				10 FT.												
* 12:00 AM		1040	24	218		1400		1				10 FT.												
12:30		1030	24	213		1410		1				10 FT.												
1:00		1070	24	216		1400		1				10 FT.												
1:30		1060	24	216		1400		1				10 FT.												
2:00		1110	24	216		1410		1				10 FT.												
2:30		1110	24	216		1410		1				10 FT.												
3:00		680	24	205		1410		1				10												
3:30		690	24	209		1400		1				10												
4:00		440	24	216		1400		1				10												
4:30		400	24	221		1400		1				10												
5:00		400	24	228		1400		1				10												
5:30		350	24	221		1410		1				10												
6:00		360	24	228		1400		1				10												
6:30		330	24	223		1405		1				10												
7:00		380	24	235		1400		1				10												
7:30		350	?	235		1400		1																
8:00		340		238		1400		1																
8:30		320		238		1400		1																
9:00		300		238		1400		1																
9:30		450		251		1405		1																
10:00		460		260		1415		1																
10:30		390		260		1405		1																

Notes:

Dual-Phase Vacuum Extraction Field Sheet

Project No.: 41-0239-01
 Task No.: UA 01
 Technician: [Signature] / SVC

Client: Tosco
 Site: 5043
 Date: 11-21-11-22

Cumulative Wells and System Operation										Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4			
Well ID: <u>mw 6</u>										<u>mw.6</u>															
DTW (ft):																									
Depth to FP (ft):																									
Screen Int. (ft):																									
Casing Diam. (in):																									
DO (mg/L):																									
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	
1100		390	24	258		1400		1				9.5													
30		400		258																					
1200		300		258																					
30		310		258																					
130		300		258																					
30		290		258																					
200		350		258																					
30		350		258																					
300		300		258																					
30		310		258								10.5													
400		310		258																					
30		290		258																					
500		280		251																					
30		290		251																					
600		250		251																					
30		310		251																					
700		300		251																					
30		300		251																					
800		230	24	277		1400						10 ft.													
30		360	24	289		1400						10 ft.													
900		370	24	291		1400						10 ft.													
30		400	24	298		1400						10 ft.													
1000		850	24	323		1400						10													
30		1050	24	315		1400						10													
1100		930	24	313		1400						10													

Notes:

Dual-Phase Vacuum Extraction Field Sheet

Client: To 500
 Site: 5043
 Date: 11/22

Project No.: 41-0239-01
 Task No.: VAD1
 Technician: SERN VG / C.B.

Cumulative Wells and System Operation										Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4			
Well ID: <u>MW 6</u>										<u>MW 6</u>															
DTW (ft):																									
Depth to FP (ft):																									
Screen Int. (ft):																									
Casing Diam. (in.):																									
DO (mg/L):																									
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	
11:30		920	370	24		1410		1				10													
12:00 AM		940	275	24		1400		1				10													
12:30		930	258	24		1400		1																	
1:00		930	254	24		1400		1																	
1:30		930	240	24		1400		1																	
2:00		980	240	24		1400		1																	
2:30		970	241	24		1400		1																	
3:00		940	241	24		1400		1																	
3:30		950	156	24		1400		1																	
4:00		940		24		1400		1																	
4:30		940		24		1410		1																	
5:00		950		24		1400		1																	
5:30		950	✓	24		1400		1																	
6:00		940																							
6:30		940																							
7:00		940																							
7:30		940																							
8:00		1040	162	24		1400		1																	
8:30		1040	162	24				1																	
9:00		1020	162	24				1																	
9:30		1020	162	24				1																	
10:00		1020	162	24				1																	
10:30		1040	162	24				1																	
11:00		1020	162	24				1																	
11:30		1010	162	24				1																	

Notes:

Dual-Phase Vacuum Extraction Field Sheet

Project No.: 41-0239-01
 Task No.: UA01
 Technician: Phin/Serv

Client: TDC
 Site: 5043
 Date: 11-22

Cumulative Wells and System Operation								Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4				
Well ID: <u>mwb</u>								<u>mwb</u>																
DTW (ft):																								
Depth to FP (ft):																								
Screen Int. (ft):																								
Casing Diam. (in):																								
DO (mg/L):																								
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)
1200		1020	24	162	1	1400		1				1024												
1300																								
1000		1040	24	163		1400																		
1100																								
2000		1090	24	163		1410																		
3000																								
3000		1010	24	163		1400																		
4000																								
4000		1100	24	163		1400																		
5000																								
5000		890	24	163		1405																		
6000																								
6000		790	24	163		1400																		
7000																								
7000		740	24	156		1400																		
8000																								
8000		710	24	159		1400																		
9000																								
9000		660	24	166		1410																		
10000																								
10000		640	24	166		1410																		
11000																								
11000		640	24	149		1400																		
12000																								
12000		620	24	169		1400																		

Notes:

Dual-Phase Vacuum Extraction Field Sheet

Client: Tosco
 Site: 5043
 Date: 11/23/97

Project No.: 41-0239-01
 Task No.: UFA01
 Technician: SEAN VG / COLIN B.

Cumulative Wells and System Operation								Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4				
Well ID: <u>MW</u>								<u>MW6</u>				<u>MW7</u>												
OTW (ft):												<u>PRGM 3:00 - 4:00 AM</u>												
Depth to FP (ft):																								
Screen Int. (ft):																								
Casing Diam. (in):																								
DO (mg/L):																								
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)
1:00 AM		580	22	150		1460		1	150	580	22	10 ft												
2:00		620	22	146		1405		1	146	620	22	10 ft												
2:30												10 ft												
3:00		910	22	150		1400		2				10 ft												
3:30		430	22	150		1400		2				10 ft												
4:00		300	22	159		1405		2																
5:00		400	24	156		1410		1																
6:00		350	24	140		1400		1																
7:00		370	24	140		1400		1																
8:00		340	24	140		1460		1																
9:00		340	24	140		1400		1																
10:00		320	24	140		1405		1				10 ft												
11:00		350	24	140		1400		1																
12:00 PM		340	24	140		1400		1																
1:00		340	24	140		1400		1																

Notes:

Dual-Phase Vacuum Extraction Field Sheet

Client: Tosco
 Site: 5043
 Date: 11-23 11-24

Project No.: 41-0239-01
 Task No.: UA01
 Technician: Sean / C. Brien

Cumulative Wells and System Operation								Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4				
Well ID: <u>mw 6</u>								<u>mw-6</u>																
DTW (ft):																								
Depth to FP (ft):																								
Screen Int. (ft):																								
Casing Diam. (in):																								
DO (mg/L):																								
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)
2:00pm	540	24	140			1400		1																
3:00pm	340	24	140					1																
4:00	340	24	140					1																
5:00	300	24	140					1																
6:00	290	24	138					1																
7:00	280	24	138			1400		1																
8:00	260	24	140					1																
9:00	260	24	140					1																
10:00	260	24	140					1																
11:00	260	24	140					1																
00:00	270	24	140			1400		1																
01:00	280	24	140					1																
02:00	280	24	150					1																
03:00	270	24	140					1																
04:00	260	24	140					1																
05:00	280	24	140			1400		1																
06:00	280	24	140					1																
07:00	760	24	140					1																
08:00	680	24	140			1400		1																
09:00	680	24	140			1400		1																

Notes:

Dual-Phase Vacuum Extraction Field Sheet

Project No.: 41-0239-01
 Task No.: VAD
 Technician: Sean V. Collins

Client: POSCO
 Site: 5043
 Date: 11-19-98

3
manully
 1
mon
 2
mon

Cumulative Wells and System Operation										Extraction Well # 1				Extraction Well # 2				Extraction Well # 3				Extraction Well # 4			
Well ID:										MW 7				MW 3				MW 10							
DTW (ft):										2.10				2.5				3.85							
Depth to FP (ft):										2.9 steerv															
Screen Int. (ft):																									
Casing Diam. (in):																									
DO (mg/L):																									
Time	Total Well Flow Rate (cfm)	Total Well Inf. Conc. (ppmv)	Total Well Vacuum (in. of Hg)	System Flowrate (cfm)	System Inf. Conc. (ppm)	System Temp (deg. F)	System Eff. Conc. (ppmv)	Extraction wells open:	MC Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Slinger Depth (ft)	MC Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Slinger Depth (ft)	MC Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Slinger Depth (ft)	Flow Rate (cfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Slinger Depth (ft)	
8:30									0.0			3.4	0.0			2.3	0.0			3.7					
10:00									0.0			3.4	0			2.3	0			3.7					
12:00									0.0			3.4	0			2.3	0			3.7					
2:00									0.0			3.3	0			2.3	0			3.7					
4:00									0.0			3.5	0			2.3	0			3.7					
6:00												3.5	0			2.3	0			3.7					
8:00												0				2.3	0			3.7					
10:00												0				2.3	0			3.7					
12:00												0				2.3	0			3.7					
2:00												0				2.3	0			3.7					
4:00												0				2.3	0			3.7					
6:00												0				2.25	0			3.8					

Notes:



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

7 December, 1999

Chris Smiga
Alton Geoscience - Concord
5052 Commercial Cirde
Concord, CA 94510

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 19-Nov-99 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Chris Smiga

Reported:
07-Dec-99 12:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	W911523-01	Air	19-Nov-99 08:30	19-Nov-99 17:25





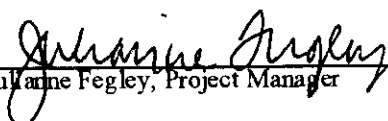
Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Chris Smiga

Reported:
07-Dec-99 12:32

**Total Purgeable Hydrocarbons (C6-C12) and BTEX in Air by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W911523-01) Air Sampled: 19-Nov-99 08:30 Received: 19-Nov-99 17:25									P-02
Purgeable Hydrocarbons	1300	2.4	ppmv	1	9K19011	20-Nov-99	20-Nov-99	DHS LUFT	
Benzene	36	0.016	"	"	"	"	"	"	
Toluene	97	0.013	"	"	"	"	"	"	
Ethylbenzene	44	0.012	"	"	"	"	"	"	
Xylenes (total)	230	0.012	"	"	"	"	"	"	
Methyl tert-butyl ether	33	0.69	"	"	"	"	"	"	


Julianne Fegley, Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Chris Smiga

Reported:
07-Dec-99 12:33

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

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

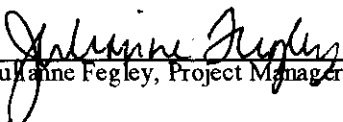
Batch 9K19011: Prepared 19-Nov-99 Using EPA 5030B [P/T]

LCS (9K19011-BS1)

Benzene	1.91	0.10	mg/m ³ Air	2.00		95.5	70-130			
Toluene	1.87	0.10	"	2.00		93.5	70-130			
Ethylbenzene	1.89	0.10	"	2.00		94.5	70-130			
Xylenes (total)	5.86	0.10	"	6.00		97.7	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	5.86		"	6.00		97.7	70-130			

LCS Dup (9K19011-BSD1)

Benzene	1.96	0.10	mg/m ³ Air	2.00		98.0	70-130	2.58	20	
Toluene	1.91	0.10	"	2.00		95.5	70-130	2.12	20	
Ethylbenzene	1.89	0.10	"	2.00		94.5	70-130	0	20	
Xylenes (total)	5.88	0.10	"	6.00		98.0	70-130	0.341	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	6.08		"	6.00		101	70-130			


Julianne Fegley, Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Chris Smiga

Reported:
07-Dec-99 12:32

Notes and Definitions

P-02 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons <C6
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



Ship To: Atton Geoscience
 Attn: Chris Smiga

W911523

CHAIN OF CUSTODY RECORD

Analysis

TPH-g	BTEX	MTBE																		
-------	------	------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

B/A

Remarks

Boring/ Well No.	Sample No.	Depth	Date	Time	Sample Type			Comp.	Grab.	Sample Containers											
					Water	Solid	Other			Vol.	No.	Type	Pres.								
MW-6	1	AWR	11-9-99	830m			X		X			1									

TUSCO 5043
 Standard T.A.T. Gas
 per Chris Smiga 11/22/99
gls

Total Number of Samples Shipped:		Shipper's Signature:		Company		Date	Time
		Signature					
Relinquished by: <u>Collin B...</u>		<u>Atton Geoscience</u>				11-19-99	2:15 pm
Received by: <u>Will R</u>		<u>Smiga, A</u>				11-19-99	
Relinquished by: <u>Will R</u>		<u>Lee, A</u>				11-19-99	17:25
Received by: <u>sa (ms)</u>		<u>SEA-WC</u>				11/19	17:25
Relinquished by:							
Received by:							

Special Instructions / Shipment / Handling / Storage Requirements:

TRC
 21 Technology Drive
 Irvine, California 92618

TRC
 5052 Commercial Circle
 Concord, California 92618

The material(s) listed are received for analysis and/or treatability evaluation and remain the property of the client and not TRC Environmental Solutions, Inc. At the conclusion of the test work, all remaining material(s) will be returned to the client for eventual disposal at a licensed facility.



Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

8 December, 1999

Tom Seeliger
Alton Geoscience - Concord
5052 Commercial Cirde
Concord, CA 94510

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 22-Nov-99 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager





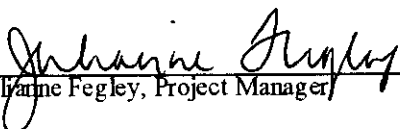
Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
08-Dec-99 17:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW6 (11/20)	W911556-01	Air	20-Nov-99 08:30	22-Nov-99 16:00
MW6 (11/21)	W911556-02	Air	21-Nov-99 08:30	22-Nov-99 16:00
MW6 (11/22)	W911556-03	Air	22-Nov-99 08:30	22-Nov-99 16:00


Julianne Fegley, Project Manager





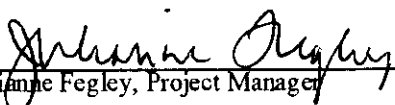
Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
08-Dec-99 17:07

Total Purgeable Hydrocarbons (C6-C12) and BTEX in Air by DHS LUFT
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW6 (11/20) (W911556-01) Air Sampled: 20-Nov-99 08:30 Received: 22-Nov-99 16:00									A-01,P-02
Purgeable Hydrocarbons	1000	2.4	ppmv	1	9K19011	23-Nov-99	23-Nov-99	DHS LUFT	
Benzene	12	0.016	"	"	"	"	"	"	
Toluene	75	0.013	"	"	"	"	"	"	
Ethylbenzene	25	0.012	"	"	"	"	"	"	
Xylenes (total)	150	0.012	"	"	"	"	"	"	
Methyl tert-butyl ether	20	1.4	"	"	"	"	"	"	
MW6 (11/21) (W911556-02) Air Sampled: 21-Nov-99 08:30 Received: 22-Nov-99 16:00									P-02
Purgeable Hydrocarbons	1100	2.4	ppmv	1	9K19011	23-Nov-99	23-Nov-99	DHS LUFT	
Benzene	11	0.016	"	"	"	"	"	"	
Toluene	60	0.013	"	"	"	"	"	"	
Ethylbenzene	20	0.012	"	"	"	"	"	"	
Xylenes (total)	120	0.012	"	"	"	"	"	"	
Methyl tert-butyl ether	7.6	1.4	"	"	"	"	"	"	
MW6 (11/22) (W911556-03) Air Sampled: 22-Nov-99 08:30 Received: 22-Nov-99 16:00									P-02
Purgeable Hydrocarbons	160	2.4	ppmv	1	9K19011	23-Nov-99	23-Nov-99	DHS LUFT	
Benzene	2.2	0.016	"	"	"	"	"	"	
Toluene	7.7	0.013	"	"	"	"	"	"	
Ethylbenzene	1.7	0.012	"	"	"	"	"	"	
Xylenes (total)	11	0.012	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	6.9	"	"	"	"	"	"	


Julianne Fegley, Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
08-Dec-99 17:10

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K19011: Prepared 19-Nov-99 Using EPA 5030B [P/T]										
LCS (9K19011-BS1)										
Benzene	1.91	0.10	mg/m ³ Air	2.00		95.5	70-130			
Toluene	1.87	0.10	"	2.00		93.5	70-130			
Ethylbenzene	1.89	0.10	"	2.00		94.5	70-130			
Xylenes (total)	5.86	0.10	"	6.00		97.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	5.86		"	6.00		97.7	70-130			
LCS Dup (9K19011-BSD1)										
Benzene	1.96	0.10	mg/m ³ Air	2.00		98.0	70-130	2.58	20	
Toluene	1.91	0.10	"	2.00		95.5	70-130	2.12	20	
Ethylbenzene	1.89	0.10	"	2.00		94.5	70-130	0	20	
Xylenes (total)	5.88	0.10	"	6.00		98.0	70-130	0.341	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.08		"	6.00		101	70-130			

Julianne Fegley, Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
08-Dec-99 17:07

Notes and Definitions

A-01 The Hold Time violation is the difference between 72 HR and 3 days ok per Alan
P-02 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons <C6
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


Julianne Fegley, Project Manager



Ship To: AITM Geosciences

Attn: Tom Seibert

CHAIN OF CUSTODY RECORD

Analysis

W911556

Tesco 5043

Boring/ Well No.	Sample No.	Depth	Date	Time	Sample Type			Comp.	Grab.	Sample Containers				Remarks
					Water	Solid	Other			Vol.	No.	Type	Pres.	
MWB	1		11-20	830m			X							-01
MWB	2		11-21	830m			X							-02
MWB	3		11-22	830m			X							-03

Total Number of Samples Shipped: 3 Shipper's Signature: _____

Signature	Company	Date	Time
Inquired by: <u>CB</u>	AITM Geosciences	11-22-99	
Received by: <u>will</u>	Sigwin Analytical	11-22-99	11:25
Relinquished by: <u>will</u>	Sigwin Analytical	11-22-99	16:00
Received by: <u>no</u>	SEOWC	11/22	16:00
Relinquished by:			
Received by:			

Special Instructions / Shipment / Handling / Storage Requirements:

TRC
21 Technology Drive
Irvine, California 92618

TRC
5052 Commercial Circle
Concord, California 92618

The material(s) listed are received for analysis and/or treatability evaluation and remain the property of the client and not TRC Environmental Solutions, Inc. At the conclusion of the test work, all remaining material(s) will be returned to the client for eventual disposal at a licensed facility.



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

10 December, 1999

Tom Seeliger
Alton Geoscience - Concord
5052 Commercial Cirde
Concord, CA 94510

RE: No Project

Enclosed are the results of analyses for samples received by the laboratory on 23-Nov-99 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager

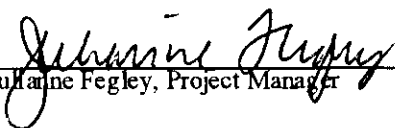




Alton Geoscience - Concord 5052 Commercial Circle Concord CA, 94510	Project: No Project Project Number: Tosco 5043 Project Manager: Tom Seeliger	Reported: 10-Dec-99 09:04
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	W911597-01	Air	23-Nov-99 08:30	23-Nov-99 17:35


Julianne Fegley, Project Manager





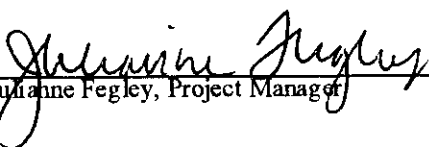
Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: No Project
Project Number: Tosco 5043
Project Manager: Tom Seeliger

Reported:
10-Dec-99 09:04

**Total Purgeable Hydrocarbons (C6-C12) and BTEX in Air by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W911597-01) Air	Sampled: 23-Nov-99 08:30		Received: 23-Nov-99 17:35						P-02
Purgeable Hydrocarbons	180	2.4	ppmv	1	9K19011	24-Nov-99	24-Nov-99	DHS LUFT	
Benzene	3.0	0.016	"	"	"	"	"	"	
Toluene	12	0.013	"	"	"	"	"	"	
Ethylbenzene	3.2	0.012	"	"	"	"	"	"	
Xylenes (total)	19	0.012	"	"	"	"	"	"	
Methyl tert-butyl ether	3.0	1.4	"	"	"	"	"	"	


Julianne Fegley, Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: No Project
Project Number: Tosco 5043
Project Manager: Tom Seeliger

Reported:
10-Dec-99 09:05

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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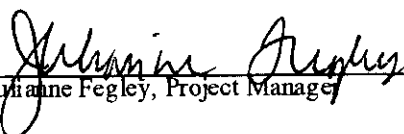
Batch 9K19011: Prepared 19-Nov-99 Using EPA 5030B [P/T]

LCS (9K19011-BS1)

Benzene	1.91	0.10	mg/m ³ Air	2.00		95.5	70-130			
Toluene	1.87	0.10	"	2.00		93.5	70-130			
Ethylbenzene	1.89	0.10	"	2.00		94.5	70-130			
Xylenes (total)	5.86	0.10	"	6.00		97.7	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	5.86		"	6.00		97.7	70-130			

LCS Dup (9K19011-BSD1)

Benzene	1.96	0.10	mg/m ³ Air	2.00		98.0	70-130	2.58	20	
Toluene	1.91	0.10	"	2.00		95.5	70-130	2.12	20	
Ethylbenzene	1.89	0.10	"	2.00		94.5	70-130	0	20	
Xylenes (total)	5.88	0.10	"	6.00		98.0	70-130	0.341	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	6.08		"	6.00		101	70-130			


Julianne Fegley, Project Manager





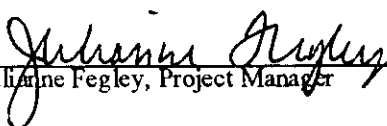
Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: No Project
Project Number: Tosco 5043
Project Manager: Tom Seeliger

Reported:
10-Dec-99 09:04

Notes and Definitions

P-02 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons <C6
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


Julianne Fegley, Project Manager



Ship To: Altan Geo Science
 Attn: Tom Seeger

CHAIN OF CUSTODY RECORD

Analysis

TPH 6
DETA
VAIBS

W911597

Boring/ Well No.	Sample No.	Depth	Date	Time	Sample Type			Comp.	Grab.	Sample Containers				Remarks
					Water	Solid	Other			Vol.	No.	Type	Pres.	
<i>MW-6</i>	<i>1</i>		<i>11-23-99</i>	<i>8:30AM</i>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<i>O/A</i>

Total Number of Samples Shipped:	Shipper's Signature:	Company	Date	Time
	<i>Collin B...</i>	<i>Altan Geo Science</i>	<i>11-23-99</i>	
Relinquished by:	<i>Collin B...</i>	<i>Altan Geo Science</i>	<i>11-23-99</i>	<i>15:25</i>
Received by:	<i>Tom Seeger</i>	<i>Altan Geo Science</i>	<i>11-23-99</i>	<i>17:35</i>
Relinquished by:	<i>Tom Seeger</i>	<i>Altan Geo Science</i>	<i>11/23</i>	<i>17:35</i>
Received by:				
Relinquished by:				
Received by:				

Special Instructions / Shipment / Handling / Storage Requirements:

The material(s) listed are received for analysis and/or treatability evaluation and remain the property of the client and not TRC Environmental Solutions, Inc. At the conclusion of the test work, all remaining material(s) will be returned to the client for eventual disposal at a licensed facility.

- TRC
21 Technology Drive
Irvine, California 92618
- TRC
5052 Commercial Circle
Concord, California 92618



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Tom Seeliger
Alton Geoscience - Concord
5052 Commercial Cirde
Concord, CA 94510

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 24-Nov-99 12:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
27-Dec-99 12:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	W911615-01	Water	24-Nov-99 08:30	24-Nov-99 12:05
MW-6	W911615-02	Air	24-Nov-99 08:00	24-Nov-99 12:05





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
27-Dec-99 12:22

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W911615-01) Water Sampled: 24-Nov-99 08:30 Received: 24-Nov-99 12:05 P-01									
Purgeable Hydrocarbons	650000	500000	ug/l	10000	9K30001	30-Nov-99	30-Nov-99	EPA	
Benzene	9500	5000	"	"	"	"	"	8015M/8020	
Toluene	47000	5000	"	"	"	"	"	"	
Ethylbenzene	29000	5000	"	"	"	"	"	"	
Xylenes (total)	310000	5000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25000	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	70-130						
MW-6 (W911615-02) Air Sampled: 24-Nov-99 08:00 Received: 24-Nov-99 12:05 P-02									
Purgeable Hydrocarbons	1200	50	mg/m ³ Air	1	9K19011	24-Nov-99	24-Nov-99	DHS LUFT	
Benzene	13	0.50	"	"	"	"	"	"	
Toluene	61	0.50	"	"	"	"	"	"	
Ethylbenzene	20	0.50	"	"	"	"	"	"	
Xylenes (total)	140	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	13	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		717 %	70-130						S-04

Julianne Pegley, Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
27-Dec-99 12:22

Total Purgeable Hydrocarbons (C6-C12) and BTEX in Air by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W911615-02) Air									
Sampled: 24-Nov-99 08:00 Received: 24-Nov-99 12:05 P-02									
Purgeable Hydrocarbons	300	2.4	ppmv	1	9K19011	24-Nov-99	24-Nov-99	DHS LUFT	
Benzene	4.1	0.016	"	"	"	"	"	"	
Toluene	16	0.013	"	"	"	"	"	"	
Ethylbenzene	4.7	0.012	"	"	"	"	"	"	
Xylenes (total)	32	0.012	"	"	"	"	"	"	
Methyl tert-butyl ether	3.5	0.69	"	"	"	"	"	"	


Jillianne Fegley, Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
27-Dec-99 12:22

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9K19011: Prepared 19-Nov-99 Using EPA 5030B [P/T]

Blank (9K19011-BLK1)

Purgeable Hydrocarbons	ND	10	mg/m ³ Air							
Benzene	ND	0.10	"							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
Xylenes (total)	ND	0.10	"							
Methyl tert-butyl ether	ND	0.50	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	5.76		"	6.00		96.0	70-130			

Blank (9K19011-BLK2)

Purgeable Hydrocarbons	ND	10	mg/m ³ Air							
Benzene	ND	0.10	"							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
Xylenes (total)	ND	0.10	"							
Methyl tert-butyl ether	ND	0.50	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	5.80		"	6.00		96.7	70-130			

Blank (9K19011-BLK3)

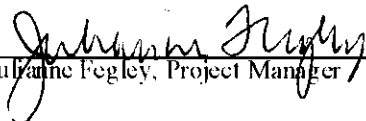
Purgeable Hydrocarbons	ND	10	mg/m ³ Air							
Benzene	ND	0.10	"							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
Xylenes (total)	ND	0.10	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	5.72		"	6.00		95.3	70-130			

Blank (9K19011-BLK4)

Purgeable Hydrocarbons	ND	10	mg/m ³ Air							
Benzene	ND	0.10	"							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
Xylenes (total)	ND	0.10	"							

Sequoia Analytical - Walnut Creek

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.


Julianne Fogley, Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
27-Dec-99 12:22

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9K19011: Prepared 24-Nov-99 Using EPA 5030B [P/T]

Blank (9K19011-BLK4)

Methyl tert-butyl ether	ND	1.0	mg/m ³ Air							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	5.36		"	6.00		89.3	70-130			

LCS (9K19011-BS1)

Benzene	1.91	0.10	mg/m ³ Air	2.00		95.5	70-130			
Toluene	1.87	0.10	"	2.00		93.5	70-130			
Ethylbenzene	1.89	0.10	"	2.00		94.5	70-130			
Xylenes (total)	5.86	0.10	"	6.00		97.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	5.86		"	6.00		97.7	70-130			

LCS (9K19011-BS2)

Benzene	4.32	0.10	mg/m ³ Air	4.00		108	70-130			
Toluene	4.38	0.10	"	4.00		110	70-130			
Ethylbenzene	4.52	0.10	"	4.00		113	70-130			
Xylenes (total)	13.7	0.10	"	12.0		114	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.28		"	6.00		105	70-130			

LCS (9K19011-BS3)

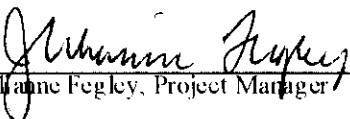
Benzene	4.00	0.10	mg/m ³ Air	4.00		100	70-130			
Toluene	4.00	0.10	"	4.00		100	70-130			
Ethylbenzene	3.88	0.10	"	4.00		97.0	70-130			
Xylenes (total)	12.0	0.10	"	12.0		100	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.22		"	6.00		104	70-130			

LCS (9K19011-BS4)

Benzene	4.24	0.10	mg/m ³ Air	4.00		106	70-130			
Toluene	4.24	0.10	"	4.00		106	70-130			
Ethylbenzene	4.16	0.10	"	4.00		104	70-130			
Xylenes (total)	12.8	0.10	"	12.0		107	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.14		"	6.00		102	70-130			

Sequoia Analytical - Walnut Creek

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.


Julianne Fegley, Project Manager





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
27-Dec-99 12:22

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9K19011: Prepared 19-Nov-99 Using EPA 5030B [P/T]

LCS Dup (9K19011-BSD1)

Benzene	1.96	0.10	mg/m ³ Air	2.00		98.0	70-130	2.58	20	
Toluene	1.91	0.10	"	2.00		95.5	70-130	2.12	20	
Ethylbenzene	1.89	0.10	"	2.00		94.5	70-130	0	20	
Xylenes (total)	5.88	0.10	"	6.00		98.0	70-130	0.341	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	6.08		"	6.00		101	70-130			

Batch 9K30001: Prepared 30-Nov-99 Using EPA 5030B [P/T]

Blank (9K30001-BLK1)

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	31.3		"	30.0		104	70-130			

LCS (9K30001-BS1)

Benzene	20.0	0.50	ug/l	20.0		100	70-130			
Toluene	20.1	0.50	"	20.0		101	70-130			
Ethylbenzene	19.9	0.50	"	20.0		99.5	70-130			
Xylenes (total)	62.0	0.50	"	60.0		103	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.4		"	30.0		101	70-130			

Matrix Spike (9K30001-MS1)

Source: W911614-08

Benzene	19.6	0.50	ug/l	20.0	ND	98.0	70-130			
Toluene	20.0	0.50	"	20.0	ND	100	70-130			
Ethylbenzene	17.7	0.50	"	20.0	ND	88.5	70-130			
Xylenes (total)	61.2	0.50	"	60.0	ND	102	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	29.6		"	30.0		98.7	70-130			





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
27-Dec-99 12:22

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9K30001: Prepared 30-Nov-99 Using EPA 5030B [P/T]

Matrix Spike Dup (9K30001-MSD1)

Source: W911614-08

Benzene	19.7	0.50	ug/l	20.0	ND	98.5	70-130	0.509	20	
Toluene	20.1	0.50	"	20.0	ND	101	70-130	0.499	20	
Ethylbenzene	20.3	0.50	"	20.0	ND	101	70-130	13.7	20	
Xylenes (total)	62.3	0.50	"	60.0	ND	104	70-130	1.78	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>30.6</i>		<i>"</i>	<i>30.0</i>		<i>102</i>	<i>70-130</i>			





Alton Geoscience - Concord
5052 Commercial Circle
Concord CA, 94510

Project: Tosco
Project Number: Tosco # 5043
Project Manager: Tom Seeliger

Reported:
27-Dec-99 12:22

Notes and Definitions

- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-02 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons <C6
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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





819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Mr. Allen Jackson Project Name: Tosco Service Station No. 1043
 Address: 5052 Commercial Circle TOSCO Engineer (required) Dave DeLuitt
 City: Concord State: CA Zip Code: 94520
 Telephone: 925-688-1200 FAX #: 925-688-0388 Site #, City, State: 1043, Oakland, CA
 Report To: Tom Seeliger Sampler: Collin Bruce QC Data: Level D (Standard) Level C Level B Level A

Turnaround Time: 10 Work Days 5 Work Days 3 Work Days Drinking Water
 2 Work Days 1 Work Day 2-8 Hours Waste Water
 CODE: Misc. Detect. Eval. Remed. Demol. Closure Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested							Comments	
						TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)			
1. MW 4	11-24-99 / 5:30 AM	1120	4	VOC	01	X	X	X						
2. MW 6	11-24-99 / 5:00 AM	Air	1	Talor	02	X	X	X						
3.														
4.														
5.														
6.														
7.														
8.														
9.														
10.														

Relinquished By: <u>[Signature]</u>	Date: <u>11-24-99</u>	Time: <u>12:55 PM</u>	Received By: <u>[Signature]</u>	Date: <u>11-24-99</u>	Time: <u>12:05</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:
 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Sequoia

White - Sequoia