

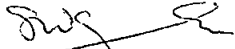


**Attachments:**

- Table 1 – Groundwater Sample Results
- Table 2 – Effluent Water Sample Results
- Table 3 – GW Extraction System Performance Data
- Table 4 – SVE System Performance Data
- Table 5 – SVE Well Performance Data
- Figure 1 – Vicinity Map
- Figure 2 – Site Plan
- Analytical Laboratory Reports (North Creek Analytical)

Signed by:

Title:

  
Associate

**TABLE 1  
GROUNDWATER SAMPLE RESULTS  
BROWN BEAR CAR WASH--15TH  
TOSCO SITE NO. 5516**

Sample Number	Date Sampled	WTPH-G <sup>a</sup> (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	DTW <sup>b</sup> (feet)	GW Elev. <sup>c</sup> (feet)
<b>MW-1 (Casing Elevation = 13.96 ft) - Installed 1/5/94, destroyed 1995</b>								
EMW1-GW	1/7/94	22,000	2,700	4,300	1,500	7,400	--	--
--	1/5/95	--	--	--	--	--	5.27	8.69
14880631	1/6/95	76,000	3,600	6,300	2,700	12,800	--	--
--	2/7/95	--	--	--	--	--	4.88	9.08
<b>MW-2 - Installed 1/5/94, destroyed 1995</b>								
EMW2-GW	1/7/94	1,900	190	48	85	241	--	--
<b>MW-3 - Installed 1/27/94, destroyed 1995</b>								
--	2/7/95	--	--	--	--	--	6.3	--
14880642	3/1/95	< 50	< 1.00	< 1.00	< 1.00	< 50	--	--
<b>MW-4 (Casing Elevation = 14.46 ft) - 12/23/94</b>								
14880625	1/5/95	< 300	< 1.00	< 1.00	< 1.00	< 1.00	5.68	8.78
165507	10/31/95	< 50	< 0.5	< 1	< 1	< 1	5.99	8.47
--	7/25/96	--	--	--	--	--	6.11	8.35
--	10/15/96	--	--	--	--	--	6.22	8.24
14881163	12/19/96	< 50	42.5	< 1	< 1	< 1	5.78	8.68
14881177	11/3/97	< 50	1.8	< 1	< 1	< 1	5.75	8.71
148811202	11/4/98	< 50	< 1	< 1	< 1	< 1	7.30	7.16
14811216	11/21/99	< 50	< 0.5	< 1	< 1	< 1	5.85	8.57
--	5/21/00	--	--	--	--	--	6.18	8.24
55160010	11/12/00	< 50	< 0.5	< 0.5	< 0.5	< 1	7.66	6.76
<b>MW-5 (Casing Elevation = 14.33 ft) - 12/23/94</b>								
14880626	1/5/95	< 300	< 1.00	< 1.00	< 1.00	< 1.00	5.45	8.88
165508	10/31/95	< 50	1.1	< 1	< 1	< 1	5.75	8.58
--	7/25/96	--	--	--	--	--	6.19	8.14
--	10/15/96	--	--	--	--	--	6.27	8.06
1481164	12/19/96	< 50	< 0.5	< 1	< 1	< 1	5.75	8.58
14881178	11/3/97	< 50	< 0.5	< 1	< 1	< 1	5.76	8.57
148811203	11/4/98	< 50	< 0.5	< 1	< 1	< 1	7.61	6.72
14811217	11/21/99	< 50	< 0.5	< 1	< 1	< 1	6.04	8.25
--	5/21/00	--	--	--	--	--	6.38	7.91
55160011	11/12/00	< 50	< 0.5	< 1	< 1	< 1	8.18	6.11
<b>MTCA Cleanup Levels<sup>d</sup></b>		1,000	5	40	30	20		

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BROWN BEAR CAR WASH--15TH  
TOSCO SITE NO. 5516**

Sample Number	Date Sampled	WTPH-G <sup>a</sup> (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	DTW <sup>b</sup> (feet)	GW Elev. <sup>c</sup> (feet)
<b>MW-6 (Casing Elevation = 14.16 ft) - 12/23/94</b>								
14880627	1/5/95	< 300	1.2	< 1.00	< 1.00	< 1.00	5.47	8.69
165509	10/31/95	<b>6,300</b>	<b>3,100</b>	< 1	<b>876</b>	<b>1,340</b>	5.57	8.59
14881146	3/19/96	<b>1,250</b>	<b>198</b>	< 1	<b>122</b>	9	5.81	8.35
14881149	6/18/96	250	< 0.5	< 1	26	1	6.11	8.05
--	7/25/96	--	--	--	--	--	6.43	7.73
14881160	9/25/96	130	< 0.5	< 1	7	< 1	6.70	7.46
--	10/15/96	--	--	--	--	--	6.43	7.73
14881165	12/19/96	< 50	< 0.5	< 1	1	< 1	5.85	8.31
14881169	4/21/97	< 50	< 0.5	< 1	< 1	< 1	5.43	8.73
14881173	8/21/97	90	< 0.5	< 1	< 1	< 1	7.41	6.75
14881179	11/3/97	110	< 0.5	< 1	< 1	< 1	5.86	8.30
14881184	2/24/98	< 250	< 0.5	< 1	< 1	< 1	6.26	7.90
14881190	5/15/98	55	< 0.5	< 1	< 1	< 1	8.19	5.97
14881197	7/30/98	< 50	< 1	< 1	< 1	< 1	8.99	5.17
14881204	11/4/98	< 50	< 0.5	< 1	< 1	< 1	7.85	6.31
14881208	2/2/99	< 50	< 0.5	< 1	< 1	< 1	6.20	7.96
14881218	11/21/99	< 50	< 0.5	< 1	< 1	< 1	6.25	7.90
55160002	5/21/00	< 50	< 0.5	0.626	< 0.5	1.87	6.56	7.59
55160012	11/12/00	< 50	< 0.5	< 0.5	< 0.5	< 1	8.57	5.58
<b>MW-7 (Casing Elevation = 14.06 ft) - installed 12/27/94</b>								
14880628	1/5/95	820	<b>13</b>	2.2	4.7	3.1	5.73	8.33
165510	10/31/95	<b>1,920</b>	<b>1,990</b>	3	<b>247</b>	<b>42</b>	5.50	8.56
14881147	3/19/96	<b>3,820</b>	<b>970</b>	29	<b>307</b>	<b>67</b>	6.09	7.97
14881150	6/18/96	<b>5,020</b>	<b>733</b>	16	<b>514</b>	<b>150</b>	6.45	7.61
--	7/25/96	--	--	--	--	--	6.80	7.26
14881161	9/25/96	<b>4,500</b>	<b>88</b>	< 5	<b>420</b>	<b>87</b>	7.03	7.03
--	10/15/96	--	--	--	--	--	6.70	7.36
14881166	12/19/96	970	<b>54</b>	2	9	18	6.06	8.00
14881170	4/21/97	<b>2,160</b>	<b>27</b>	< 1	<b>114</b>	8	5.70	8.36
14881174	8/21/97	<b>1,630</b>	<b>56</b>	1	<b>44</b>	8	7.71	6.35
14881180	11/3/97	<b>1,550</b>	<b>59</b>	1	23	6	6.08	7.98
14881185	2/24/98	<b>1,200</b>	<b>60</b>	1	11	4	6.51	7.55
14881191	5/15/98	<b>1,500</b>	<b>130</b>	1	17	13	8.17	5.89
14881198	7/30/98	560	<b>48</b>	1	4	3	9.20	4.86
14881205	11/4/98	<b>1,200</b>	<b>410</b>	5	<b>33</b>	9	8.06	6.00
14881209	2/2/99	< 50	< 0.5	< 1	< 1	< 1	6.55	7.51
14881212	5/6/99	<b>2,500</b>	<b>390</b>	< 10	<b>54</b>	<b>20</b>	7.09	6.97
14881214	8/13/99	340	<b>57</b>	2	4	3	6.74	7.32
14881219	11/21/99	<b>1,400</b>	<b>370</b>	10	16	15	6.27	7.71
55160003	5/21/00	<b>1,770</b>	<b>173</b>	8.04	27	<b>65.7</b>	6.62	7.36
55160013	11/12/00	<b>1,230</b>	<b>41</b>	< 6.69	8.08	14.8	8.31	5.67
<b>MTCA Cleanup Levels<sup>d</sup></b>		1,000	5	40	30	20		

**TABLE 1  
GROUNDWATER SAMPLE RESULTS  
BROWN BEAR CAR WASH--15TH  
TOSCO SITE NO. 5516**

Sample Number	Date Sampled	WTPH-G <sup>a</sup> (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	DTW <sup>b</sup> (feet)	GW Elev. <sup>c</sup> (feet)
<b>MW-8 (Casing Elevation = 13.83 ft) - installed 12/27/94</b>								
14880629	1/5/95	550	280	2.6	1.9	2.7	6.08	7.75
165511	10/31/95	330	355	1	2	4	6.00	7.83
14881148	3/19/96	610	1,340	5	2	3	6.29	7.54
14881151	6/18/96	1,160	4,400	42	56	42	6.69	7.14
--	7/25/96	--	--	--	--	--	7.05	6.78
14881162	9/25/96	1,440	2,200	13	152	96	7.24	6.59
--	10/15/96	--	--	--	--	--	6.90	6.93
14881167	12/19/96	2,040	1,410	3	231	175	6.34	7.49
14881171	4/21/97	1,380	257	< 1	81	41	5.95	7.88
14881175	8/21/97	910	39.0	< 1	19	13	7.45	6.38
14881181	11/3/97	980	19.3	1	8	9	6.22	7.61
14881186	2/24/98	1,000	2.9	< 1	< 1	7	6.41	7.42
14881192	5/15/98	640	29.0	1	1	7	7.57	6.26
14881199	7/30/98	420	3.0	< 1	< 1	5	8.60	5.23
14881206	11/4/98	230	1.8	< 1	< 1	2	8.03	5.80
14881210	2/2/99	< 50	< 0.5	< 1	< 1	< 1	6.50	7.33
14881220	11/21/99	170	0.9	< 1	< 1	< 1	6.19	7.65
55160004	5/21/00	58	< 0.5	< 0.5	< 0.5	< 1	6.74	7.10
55160014	11/12/00	99	0.7	< 0.5	< 0.5	< 1	8.01	5.83
<b>MW-9 (Casing Elevation = 14.95 ft) - installed 12/27/94</b>								
14880630	1/5/95	< 300	< 1.00	< 1.00	< 1.00	< 1.00	5.66	9.29
--	7/25/96	--	--	--	--	--	7.31	7.64
--	10/15/96	--	--	--	--	--	6.17	8.78
148811221	11/21/99	< 50	< 0.5	< 1	< 1	< 1	6.11	8.84
--	5/21/00	--	--	--	--	--	6.60	8.35
55160015	11/12/00	< 50	< 0.5	< 0.5	< 0.5	2.5	8.68	6.27
MTCA Cleanup Levels <sup>d</sup>		1,000	5	40	30	20		

**TABLE 1**  
**GROUNDWATER SAMPLE RESULTS**  
**BROWN BEAR CAR WASH--15TH**  
**TOSCO SITE NO. 5516**

Sample Number	Date Sampled	WTPH-G <sup>a</sup> (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	DTW <sup>b</sup> (feet)	GW Elev. <sup>c</sup> (feet)
<b>MW-10 (Casing Elevation = 15.08 ft)</b>								
--	7/25/96	--	--	--	--	--	5.96	9.12
--	10/15/96	--	--	--	--	--	6.17	8.91
14881168	12/19/96	230	<b>366</b>	<b>41</b>	1	3	5.80	9.28
14881172	4/21/97	< 50	<b>13.9</b>	< 1	< 1	< 1	4.88	10.20
14881176	8/21/97	50	<b>37.4</b>	2	< 1	< 1	6.08	9.00
14881182	11/3/97	< 50	<b>195.0</b>	< 1	1	< 1	5.74	9.34
14881183	2/24/98	< 250	<b>16.0</b>	< 1	< 1	< 1	6.01	9.07
14881193	5/15/98	< 50	<b>10.0</b>	< 1	< 1	1	6.63	8.45
148811100	7/30/98	< 50	<b>430.0</b>	< 1	< 1	< 1	6.51	8.57
148811207	11/4/98	< 50	< 0.5	< 1	< 1	< 1	6.93	8.15
148811211	2/2/99	< 50	<b>6.8</b>	< 1	< 1	< 1	5.65	9.43
148811213	5/6/99	< 50	<b>37.0</b>	2	< 1	< 1	6.57	8.51
14118811215	8/13/99	< 50	< 0.5	< 1	< 1	< 1	6.53	8.55
148811222	11/21/99	< 50	0.9	< 1	< 1	< 1	5.72	9.36
55160005	5/21/00	61.3	3.36	1.88	0.664	3.68	6.01	9.07
55160016	11/12/00	< 50	0.61	< 0.5	< 0.5	< 1	7.07	8.01
MTCA Cleanup Levels <sup>d</sup>		1,000	5	40	30	20		

## NOTES:

- <sup>a</sup> Washington Total Petroleum Hydrocarbons as Gasoline  
<sup>b</sup> Depth to water, measured from top of casing.  
<sup>c</sup> Groundwater elevation, relative to arbitrary site datum of 20 ft.  
<sup>d</sup> Washington Model Toxics Control Act (MTCA) Method A.

< = Not detected at the indicated concentration.

**Boldface** values indicate concentrations exceeding cleanup level.

**TABLE 2**  
**EFFLUENT SAMPLE RESULTS**  
**BROWN BEAR CAR WASH--15TH**  
**TOSCO SITE NO. 5516**

Sample Number	Date Sampled	Total Lead (ug/L)	WTPH-G (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
<b>Batch Tank (Pre-Treatment)</b>							
14881155	7/15/96	--	25,100	<b>668</b>	125	<b>1,450</b>	4,490
Calculated	1997	--	76,000	<b>1,000</b>	<b>7,000</b>	<b>3,000</b>	13,000
14881184	3/4/98	--	1,000	130	9	17	160
14881194	6/24/98	--	260	45	< 1	6	20
14881201	11/4/98	--	< 50	< 0.5	< 1	< 1	< 1
14881212	2/8/99	--	200	29	2	10	24
55160001	1/21/00	--	< 50	< 0.5	< 1	< 1	< 1
55160007	9/27/00	--	< 50	0.55	< 0.5	< 0.5	< 1
<b>Air Stripper Sump (Post-Treatment)</b>							
14881156	7/15/96	--	1,400	25	2	40	156
Calculated	1997	--	7,600	100	700	300	1,300
14881185	3/4/98	--	830	64	10	9	140
Discharge Limits <sup>a</sup>			100,000 <sup>b</sup>	130	1,500	1,400	-- <sup>c</sup>

**NOTES:**

<sup>a</sup> In accordance with Metro discharge authorization No. 524.

<sup>b</sup> Discharge limits are for nonpolar fats, oil & grease; WTPH-G is accepted substitute.

<sup>c</sup> No discharge limit prescribed for xylenes.

< = Not detected at indicated concentration.

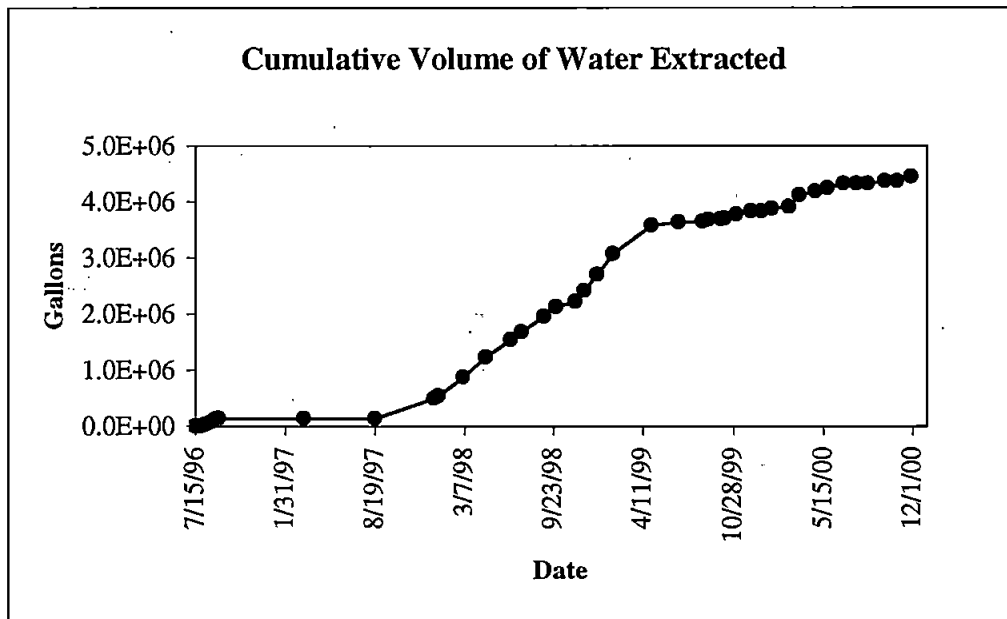
**Boldface** values exceed discharge limits.

**TABLE 3 - GW EXTRACTION SYSTEM PERFORMANCE DATA  
BROWN BEAR CAR WASH--15th  
TOSCO SITE NO. 5516**

Date	Flowmeter Reading (cubic feet)	Flowmeter Reading (gal)	Vol H <sub>2</sub> O Extracted (gal)	Flowrate (gpm)	Cum. Vol H <sub>2</sub> O Extr. (gal)
7/15/96		1,190	1,190	0.00	1,190
7/25/96		2,500	1,310	0.09	2,500
7/26/96		4,000	1,500	1.04	4,000
7/29/96		9,500	5,500	1.27	9,500
7/30/96		15,890	6,390	4.44	15,890
8/2/96		28,600	12,710	2.94	28,600
8/8/96		31,970	3,370	0.39	31,970
8/21/96		81,230	49,260	2.63	81,230
8/23/96		90,580	9,350	3.25	90,580
8/26/96		105,530	14,950	3.46	105,530
8/30/96		122,360	16,830	2.92	122,360
9/5/96		141,190	18,830	2.18	141,190
3/14/97		142,860	1,670	0.01	142,860
8/19/97		142,860	0	0.00	142,860
12/29/97	47190		352,981	1.86	495,841
1/7/98	52721		41,372	3.19	537,213
3/4/98	97963		338,410	4.20	875,623
4/24/98	146033		359,564	4.90	1,235,187
6/19/98	186804		304,967	3.78	1,540,154
7/14/98	205473		139,644	3.88	1,679,798
9/1/98	242617		277,837	3.94	1,957,635
9/29/98	264744		165,510	4.10	2,123,145
11/11/98	277999		99,147	1.60	2,222,293
11/11/98		142,860	0	0.00	2,222,293
11/30/98		333,230	190,370	6.96	2,412,663
12/29/98		619,810	286,580	6.86	2,699,243
2/3/99		988,040	368,230	7.10	3,067,473
4/29/99		1,495,270	507,230	4.14	3,574,703
6/29/99		1,557,558	62,288	0.71	3,636,991
8/21/99		1,566,799	9,241	0.12	3,646,232
9/2/99		1,595,290	28,491	1.65	3,674,723
9/30/99		1,611,340	16,050	0.40	3,690,773
10/8/99		1,621,993	10,653	0.92	3,701,426
11/3/99		1,693,115	71,122	1.90	3,772,548
12/6/99		1,749,257	56,142	1.18	3,828,690
12/29/99		1,749,257	0	0.00	3,828,690
1/21/00		1,791,320	42,063	1.27	3,870,753
2/28/00		1,833,410	42,090	0.77	3,912,843

**TABLE 3 - GW EXTRACTION SYSTEM PERFORMANCE DATA  
BROWN BEAR CAR WASH--15th  
TOSCO SITE NO. 5516**

Date	Flowmeter Reading (cubic feet)	Flowmeter Reading (gal)	Vol H <sub>2</sub> O Extracted (gal)	Flowrate (gpm)	Cum. Vol H <sub>2</sub> O Extr. (gal)
3/22/00		2,039,877	206,467	6.23	4,119,310
4/26/00		2,107,769	67,892	1.35	4,187,202
5/24/00		2,160,956	53,187	1.32	4,240,389
6/28/00		2,246,667	85,711	1.70	4,326,100
7/27/00		2,247,288	621	0.01	4,326,721
8/22/00		2,247,435	147	0.00	4,326,868
9/29/00		2,283,880	36,445	0.67	4,363,313
10/26/00		2,283,880	0	0.00	4,363,313
11/27/00		2,368,734	84,854	1.84	4,448,167



**NOTES:**

Sewer Discharge Flowmeter replaced on 8/19/97.  
Sewer Discharge Flowmeter replaced on 11/11/98.

**TABLE 4**  
**SVE SYSTEM PERFORMANCE DATA**  
**BROWN BEAR CAR WASH--15th**  
**TOSCO SITE NO. 5516**

Sample Date	Blower Inf PID (ppm)	Stack (in. H <sub>2</sub> O)	Stack Velocity fpm	Flow Rate (scfm)	Blower Vacuum (in. H <sub>2</sub> O or in. Hg)	Blower Inf Concentration (mg/m <sup>3</sup> )	Blower Inf Concentration (lb/ft <sup>3</sup> )	Mass Rem. (lbs/day)	Avg. Rem. per Sample Period (lbs/day)	Total Rem. per Sample Period (lbs)	Cumulative Mass Rem. (lbs)
7/15/96	3750	0.71	3400	167	19 in. H <sub>2</sub> O	15937.5	9.9E-04	239.09	--	--	--
8/23/96	948	1.18	4250	209	18 in. H <sub>2</sub> O	4029	2.5E-04	75.55	157.3	1573.2	1,573
9/5/96	1346		4250	209		5720.5	3.6E-04	107.27	91.4	1394.5	2,968
3/10/98	121.0			140	--	514.25	3.2E-05	6.47	6.5	64.7	3,032
4/24/98	101.0			113	5.5 in. Hg	429.25	2.7E-05	4.36	5.4	196.2	3,229
5/24/98	0.0			0	--	0	0.0E+00	0.00	2.2	0.0	3,229
6/24/98	65.2			145	6.5 in. Hg	277.1	1.7E-05	3.61	1.8	112.0	3,341
7/14/98	31.3			141	5.0 in. Hg	133.025	8.3E-06	1.69	2.6	33.7	3,374
9/1/98	35.1			138	6.0 in. Hg	149.175	9.3E-06	1.84	1.8	90.3	3,465
9/29/98	25.2			152	4.5 in. Hg	107.1	6.7E-06	1.46	1.7	41.0	3,506
11/11/98	20.6			164	4.5 in. Hg	87.55	5.5E-06	1.29	1.4	55.5	3,561
11/30/98	5			143	4.9 in. Hg	21.25	1.3E-06	0.27	0.8	5.2	3,566
12/29/98	1			151	6.0 in. Hg	4.25	2.7E-07	0.06	0.2	1.7	3,568
2/3/99	1.8			141	5.0 in. Hg	7.65	4.8E-07	0.10	0.1	3.5	3,571
3/1/99	0.9			131	6.0 in. Hg	3.825	2.4E-07	0.05	0.1	1.2	3,573
8/21/99	2.5			141	5.0 in. Hg	10.625	6.6E-07	0.13	0.1	23.3	3,596
9/2/99	2.5			141	5.0 in. Hg	10.625	6.6E-07	0.13	0.1	1.6	3,598
9/28/99	2.5			141	5.0 in. Hg	10.625	6.6E-07	0.13	0.1	3.5	3,601
10/8/99	30			136	5.5 in. Hg	127.5	8.0E-06	1.56	0.8	15.6	3,617
2/28/00	0			150	4.0 in. Hg	0	0.0E+00	0.00	0.8	0.0	3,617
3/22/00	415			150	4.0 in. Hg	1763.75	1.1E-04	23.78	11.9	546.9	4,164
4/26/00	9.2			150	4.0 in. Hg	39.1	2.4E-06	0.53	12.2	18.5	4,182
5/24/00	28			150	4.0 in. Hg	119	7.4E-06	1.60	1.1	44.9	4,227
6/28/00	0			150	4.0 in. Hg	0	0.0E+00	0.00	0.8	0.0	4,227
7/27/00	3			155	3.0 in. Hg	12.75	8.0E-07	0.18	0.1	5.2	4,232
8/22/00	5.2			155	3.0 in. Hg	22.1	1.4E-06	0.31	0.2	8.0	4,240
9/29/00	2.4			150	4.0 in. Hg	10.2	6.4E-07	0.14	0.2	5.2	4,245
10/26/00	5			150	4.0 in. Hg	21.25	1.3E-06	0.29	0.2	7.7	4,253
11/27/00	2.2			150	4.0 in. Hg	9.35	5.8E-07	0.13	0.2	4.0	4,257

## NOTE:

PID = photoionization detector  
 ppm = parts per million  
 scfm = standard cubic feet per minute  
 lbs = pounds  
 in. Hg = inches of mercury

**TABLE 5**  
**SVE WELL PERFORMANCE DATA**  
**BROWN BEAR CAR WASH--15TH**  
**TOSCO SITE NO. 5516**

Sample Date	R-1			R-2			R-3		
	FID (ppm)	PID (ppm)	Vacuum (in. H <sub>2</sub> O)	FID (ppm)	PID (ppm)	Vacuum (in. H <sub>2</sub> O)	FID (ppm)	PID (ppm)	Vacuum (in. H <sub>2</sub> O)
3/4/98	> 1000	271	--	> 1000	232	--	> 1000	280	--
4/24/98	> 1000	344	--	> 1000	260	--	> 1000	310	--
6/24/98	> 1000	315	--	820	126	--	860	106	--
7/14/98	> 1000	137.7	--	> 1000	101.3	--	> 1000	100.7	--
9/1/98	> 1000	125	--	> 1000	98	--	> 1000	88.1	--
9/29/98	--	310.2	36	--	135.9	35	--	167.1	35
11/11/98	--	110	41	--	87.4	40	--	90.1	40
11/30/98	--	39.9	47	--	17.5	43	--	20	45
12/29/98	--	11.6	44	--	1.5	45	--	1.8	42
2/3/99	--	8.3	57	--	2.5	57	--	0	41
3/1/99	--	7.1	57	--	1.1	57	--	0	40
8/21/99	--	--	75	--	--	400	--	--	204
9/2/99	--	10.1	59	--	5.5	59	--	2	45
9/28/99	--	18.9	385	--	0	400	--	0	405
10/8/99	--	--	75	--	--	231	--	--	272
2/28/00	--	2.2	45	--	0	45	--	0	40
3/22/00	--	--	73	--	--	182	--	--	344
4/26/00	--	--	73	--	--	286	--	--	358
6/28/00	--	2.3	387	--	0	316	--	0	302
7/27/00	--	--	--	--	--	--	--	--	--
8/22/00	--	5.5	328	--	0	323	--	0	277
9/29/00	--	--	81	--	--	311	--	--	243
10/26/00	--	--	74	--	--	311	--	--	189
11/27/00	--	--	68	--	--	324	--	--	351

**TABLE 5  
SVE WELL PERFORMANCE DATA  
BROWN BEAR CAR WASH--15TH  
TOSCO SITE NO. 5516**

Sample Date	R-4			R-5			R-6		
	FID (ppm)	PID (ppm)	Vacuum (in. H <sub>2</sub> O)	FID (ppm)	PID (ppm)	Vacuum (in. H <sub>2</sub> O)	FID (ppm)	PID (ppm)	Vacuum (in. H <sub>2</sub> O)
3/4/98	> 1000	248	--	> 1000	159	--	320	30	--
4/24/98	> 1000	397	--	480	147	--	360	73	--
6/24/98	> 1000	267	--	400	96.8	--	320	45.2	--
7/14/98	> 1000	135.9	--	480	71.9	--	850	70.9	--
9/1/98	> 1000	121.5	--	500	81	--	835	88	--
9/29/98	--	253.4	36	--	68.8	35	--	34.3	34
11/11/98	--	129	41	--	50.6	41	--	32.1	37
11/30/98	--	38.8	47	--	19.8	47	--	24.6	43
12/29/98	--	3.1	44	--	1.7	39	--	37.5	41
2/3/99	--	7.9	41	--	1.6	43	--	5.4	42
3/1/99	--	6.5	42	--	0.7	43	--	4.1	43
8/21/99	--	--	115	--	--	175	--	--	0
9/2/99	--	7.4	43	--	1.9	44	--	5.9	45
9/28/99	--	0	418	--	0	385	--	0	400
10/8/99	--	--	0	--	--	150	--	--	0
2/28/00	--	2.1	43	--	0	42	--	1	41
3/22/00	--	--	0	--	--	129	--	--	325
4/26/00	--	--	0	--	--	122	--	--	351
6/28/00	--	0	292	--	0	279	--	0	301
7/27/00	--	--	--	--	--	--	--	--	--
8/22/00	--	4.3	273	--	0	292	--	0	277
9/29/00	--	--	0	--	--	95	--	--	358
10/26/00	--	--	0	--	--	108	--	--	378
11/27/00	--	--	0	--	--	203	--	--	351

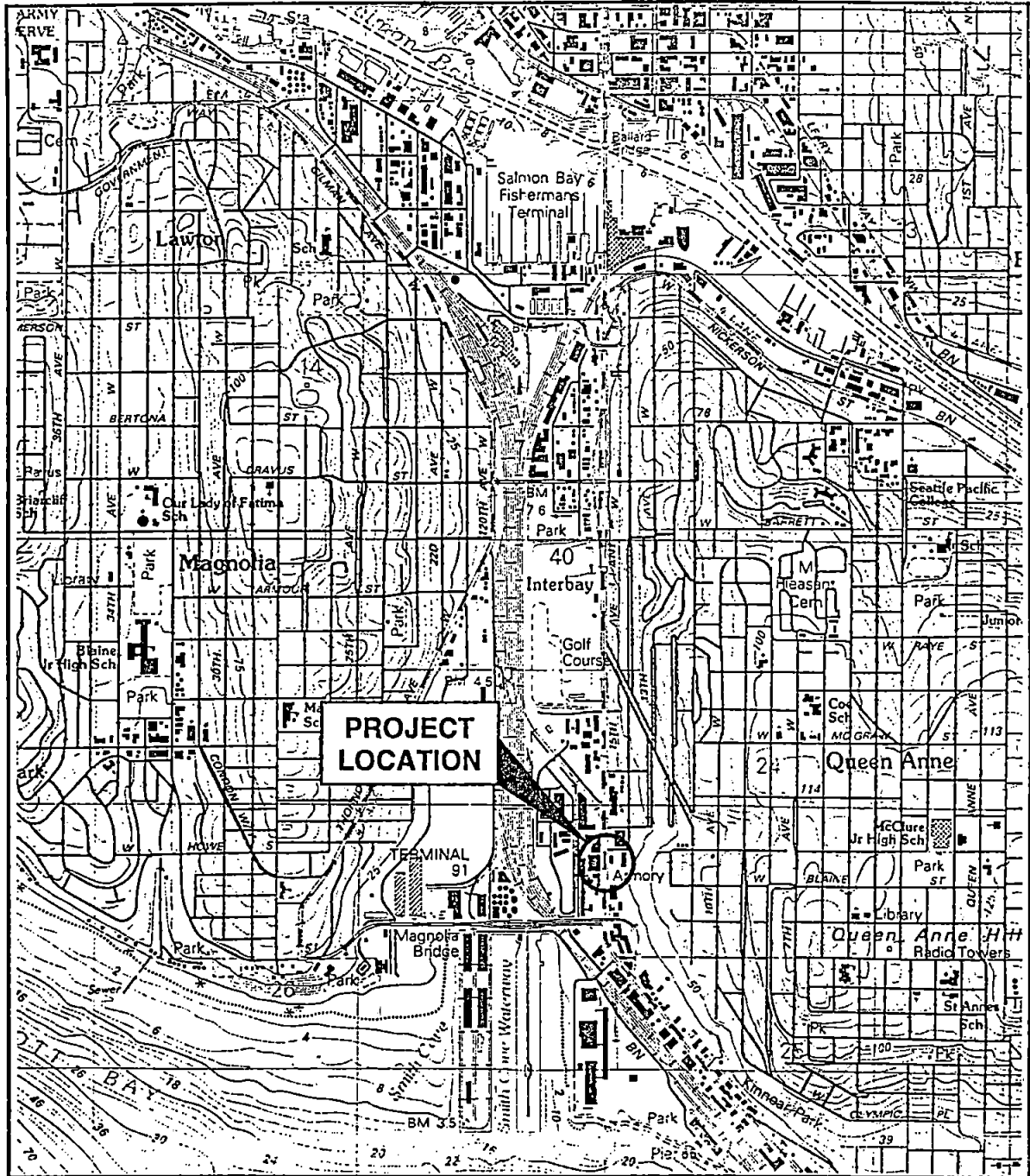
## NOTE:

PID = photoionization detector

FID = flame ionization detector

ppm = parts per million

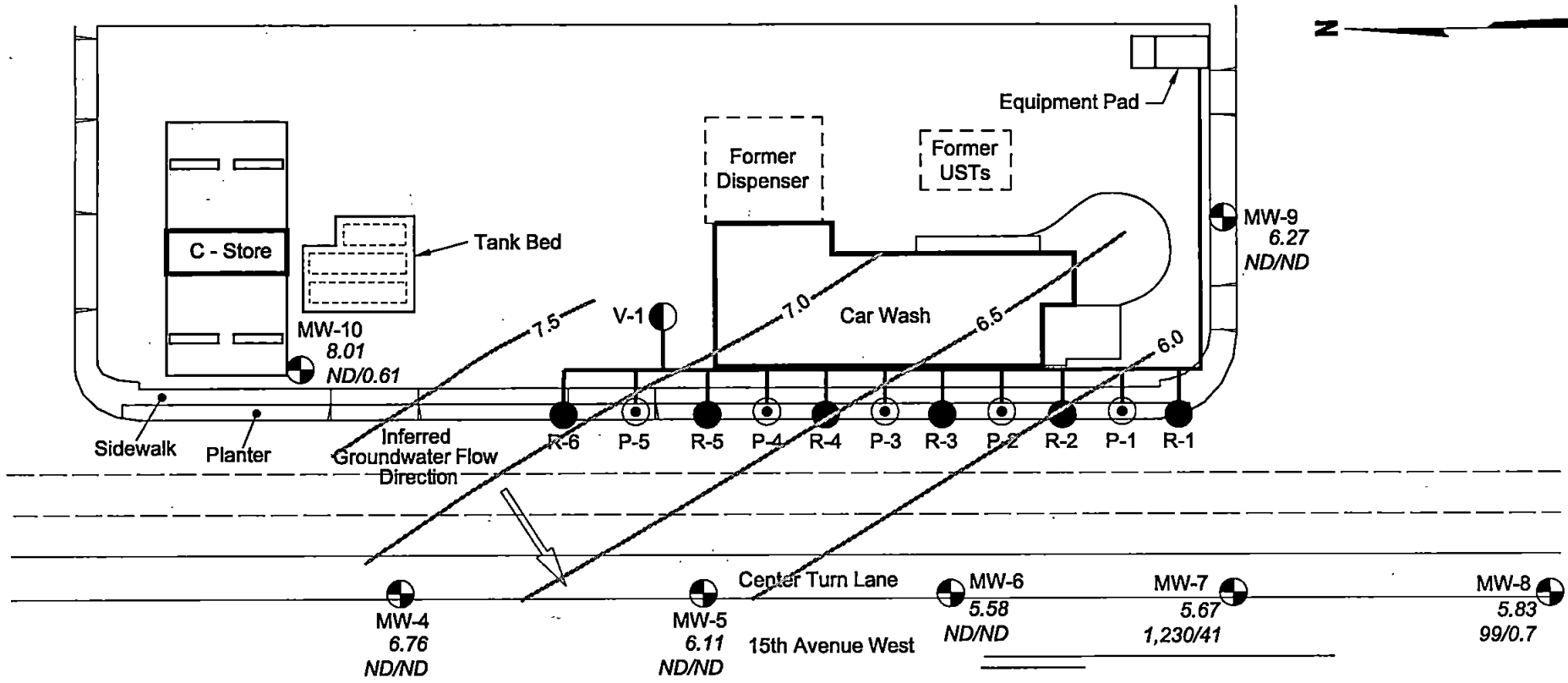
in. H<sub>2</sub>O = inches of water



**NOTE**

Map adapted from USGS metric topographic map of Seattle North, WA quadrangle, dated 1983.

<p>Tosco Site No. 5516 Brown Bear Car Wash - 15th Seattle, Washington</p>	
<p><b>VICINITY MAP</b></p>	
<p>May 2000</p>	<p>21-1-11873-005</p>
<p><b>SHANNON &amp; WILSON, INC.</b> Geotechnical and Environmental Consultants</p>	<p><b>FIG. 1</b></p>

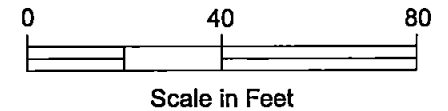


**NOTES**

1. This figure is adapted from a drawing provided by Lovell-Sauerland & Associates, Inc. dated 9-16-92, revised 3-3-95.
2. Groundwater elevations are relative to arbitrary site datum.

**LEGEND**

- 7.5 — Groundwater Surface Elevation Contour  
Contour Interval = 0.5 Feet
- R-1 ● Groundwater/Vapor Extraction Well
- V-1 ◐ Vapor Extraction Well
- P-1 ⊙ Passive Venting Well
- MW-7 ◐ Monitoring Well Location and Groundwater  
Elevation with TPH-Gasoline/Benzene  
Concentrations in  $\mu\text{g/L}$  (11-12-00)  
5.67  
1,230/41
- ND Not Detected
- NS Not Sampled



Tosco Site No. 5516  
Brown Bear Car Wash  
Seattle, Washington

**SITE PLAN**

November 2000

21-1-11873-005

**SHANNON & WILSON, INC.**  
Geotechnical and Environmental Consultants

**FIG. 2**

**FIG. 2**



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Shannon and Wilson - Seattle  
400 N. 34th Street, Ste 100  
Seattle WA, 98103

Project: TOSCO #5516  
Project Number: 21-1-11873-005  
Project Manager: Stephen Dailey


Reported:  
11/29/00 12:37

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
55160010	B0K0313-01	Water	11/12/00 08:25	11/13/00 13:30
55160011	B0K0313-02	Water	11/12/00 08:50	11/13/00 13:30
55160012	B0K0313-03	Water	11/12/00 09:15	11/13/00 13:30
55160013	B0K0313-04	Water	11/12/00 09:40	11/13/00 13:30
55160014	B0K0313-05	Water	11/12/00 10:05	11/13/00 13:30
55160015	B0K0313-06	Water	11/12/00 11:20	11/13/00 13:30
55160016	B0K0313-07	Water	11/12/00 11:50	11/13/00 13:30

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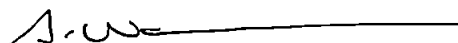
Shannon and Wilson - Seattle 400 N. 34th Street, Ste 100 Seattle WA, 98103	Project: TOSCO #5516 Project Number: 21-1-11873-005 Project Manager: Stephen Dailey	Reported: 11/29/00 12:37
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**Gasoline Range Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>55160010 (B0K0313-01) Water</b> Sampled: 11/12/00 08:25    Received: 11/13/00 13:30 <span style="float:right">Q-24</span>										
Gasoline Range Hydrocarbons	ND	50.0		ug/l	1	0K24006	11/24/00	11/24/00	WTPH-G/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	115 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	50-150				"	"	"	"	
<b>55160011 (B0K0313-02) Water</b> Sampled: 11/12/00 08:50    Received: 11/13/00 13:30 <span style="float:right">Q-24</span>										
Gasoline Range Hydrocarbons	ND	50.0		ug/l	1	0K24006	11/24/00	11/24/00	WTPH-G/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	114 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	105 %	50-150				"	"	"	"	
<b>55160012 (B0K0313-03) Water</b> Sampled: 11/12/00 09:15    Received: 11/13/00 13:30 <span style="float:right">Q-24</span>										
Gasoline Range Hydrocarbons	ND	50.0		ug/l	1	0K24006	11/24/00	11/24/00	WTPH-G/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	112 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	104 %	50-150				"	"	"	"	

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Project: TOSCO #5516  
 Project Number: 21-1-11873-005  
 Project Manager: Stephen Dailey

Reported:  
 11/29/00 12:37

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
55160013 (B0K0313-04) Water Sampled: 11/12/00 09:40 Received: 11/13/00 13:30 <span style="float:right">Q-24</span>										
Gasoline Range Hydrocarbons	1230	50.0		ug/l	1	0K24006	11/24/00	11/24/00	WTPH-G/8021B	
Benzene	40.5	0.500		"	"	"	"	"	"	
Toluene	ND	6.69		"	"	"	"	"	"	R-03
Ethylbenzene	8.08	0.500		"	"	"	"	"	"	
Xylenes (total)	14.8	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	%	50-150				"	"	"	"	S-01
Surrogate: 4-BFB (PID)	158 %	50-150				"	"	"	"	S-02
55160014 (B0K0313-05) Water Sampled: 11/12/00 10:05 Received: 11/13/00 13:30 <span style="float:right">Q-24</span>										
Gasoline Range Hydrocarbons	98.5	50.0		ug/l	1	0K24006	11/24/00	11/24/00	WTPH-G/8021B	
Benzene	0.745	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	123 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	50-150				"	"	"	"	
55160015 (B0K0313-06) Water Sampled: 11/12/00 11:20 Received: 11/13/00 13:30 <span style="float:right">Q-24</span>										
Gasoline Range Hydrocarbons	ND	50.0		ug/l	1	0K24006	11/24/00	11/24/00	WTPH-G/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	2.51	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	107 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	108 %	50-150				"	"	"	"	

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Project: TOSCO #5516  
 Project Number: 21-1-11873-005  
 Project Manager: Stephen Dailey

Reported:  
 11/29/00 12:37

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
55160016 (BOK0313-07) Water Sampled: 11/12/00 11:50 Received: 11/13/00 13:30 <span style="float:right">Q-24</span>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	OK24006	11/24/00	11/25/00	WTPH-G/8021B	
Benzene	0.613	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.0 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	103 %	50-150			"	"	"	"	

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Shannon and Wilson - Seattle 400 N. 34th Street, Ste 100 Seattle WA, 98103	Project: TOSCO #5516 Project Number: 21-1-11873-005 Project Manager: Stephen Dailey	Reported: 11/29/00 12:37
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**Gasoline Range Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 0K24006: Prepared 11/24/00 Using EPA 5030B (P/T)</b>										
<b>Blank (0K24006-BLK1)</b>										
Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	53.0		"	48.0		110	50-150			
Surrogate: 4-BFB (PID)	49.8		"	48.0		104	50-150			
<b>Blank (0K24006-BLK2)</b>										
Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	50.4		"	48.0		105	50-150			
Surrogate: 4-BFB (PID)	50.7		"	48.0		106	50-150			
<b>LCS (0K24006-BS1)</b>										
Gasoline Range Hydrocarbons	486	50.0	ug/l	500		97.2	70-130			
Surrogate: 4-BFB (FID)	56.0		"	48.0		117	50-150			
<b>LCS (0K24006-BS3)</b>										
Gasoline Range Hydrocarbons	468	50.0	ug/l	500		93.6	70-130			
Surrogate: 4-BFB (FID)	54.6		"	48.0		114	50-150			
<b>Duplicate (0K24006-DUP1) Source: B0K0327-04</b>										
Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND			111	25	Q-05
Surrogate: 4-BFB (FID)	46.9		"	48.0		97.7	50-150			

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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7583


Shannon and Wilson - Seattle 400 N. 34th Street, Ste 100 Seattle WA, 98103	Project: TOSCO #5516 Project Number: 21-1-11873-005 Project Manager: Stephen Dailey	Reported: 11/29/00 12:37
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**Gasoline Range Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 0K24006: Prepared 11/24/00 Using EPA 5030B (P/T)</b>										
<b>Duplicate (0K24006-DUP2) Source: B0K0327-01</b>										
Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND				25	
Surrogate: 4-BFB (FID)	41.9		"	48.0		87.3	50-150			
<b>Matrix Spike (0K24006-MS1) Source: B0K0327-03</b>										
Benzene	10.5	0.500	ug/l	10.0	ND	103	70-130			
Toluene	10.6	0.500	"	10.0	ND	102	70-130			
Ethylbenzene	10.8	0.500	"	10.0	ND	108	70-130			
Xylenes (total)	32.4	1.00	"	30.0	ND	108	70-130			
Surrogate: 4-BFB (PID)	51.4		"	48.0		107	50-150			
<b>Matrix Spike Dup (0K24006-MSD1) Source: B0K0327-03</b>										
Benzene	10.5	0.500	ug/l	10.0	ND	103	70-130	0	15	
Toluene	10.4	0.500	"	10.0	ND	100	70-130	1.90	15	
Ethylbenzene	10.5	0.500	"	10.0	ND	105	70-130	2.82	15	
Xylenes (total)	31.4	1.00	"	30.0	ND	105	70-130	3.13	15	
Surrogate: 4-BFB (PID)	51.2		"	48.0		107	50-150			

North Creek Analytical - Bothell

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.

  
 Scott A. Woerman, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Shannon and Wilson - Seattle 400 N. 34th Street, Ste 100 Seattle WA, 98103	Project: TOSCO #5516 Project Number: 21-1-11873-005 Project Manager: Stephen Dailey	Reported: 11/29/00 12:37
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### Notes and Definitions

- Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
- Q-24 This sample was recieved unpreserved and analyzed outside of the EPA 624 holding time of seven days for unpreserved samples.
- R-03 The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- 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

Quantitation Report

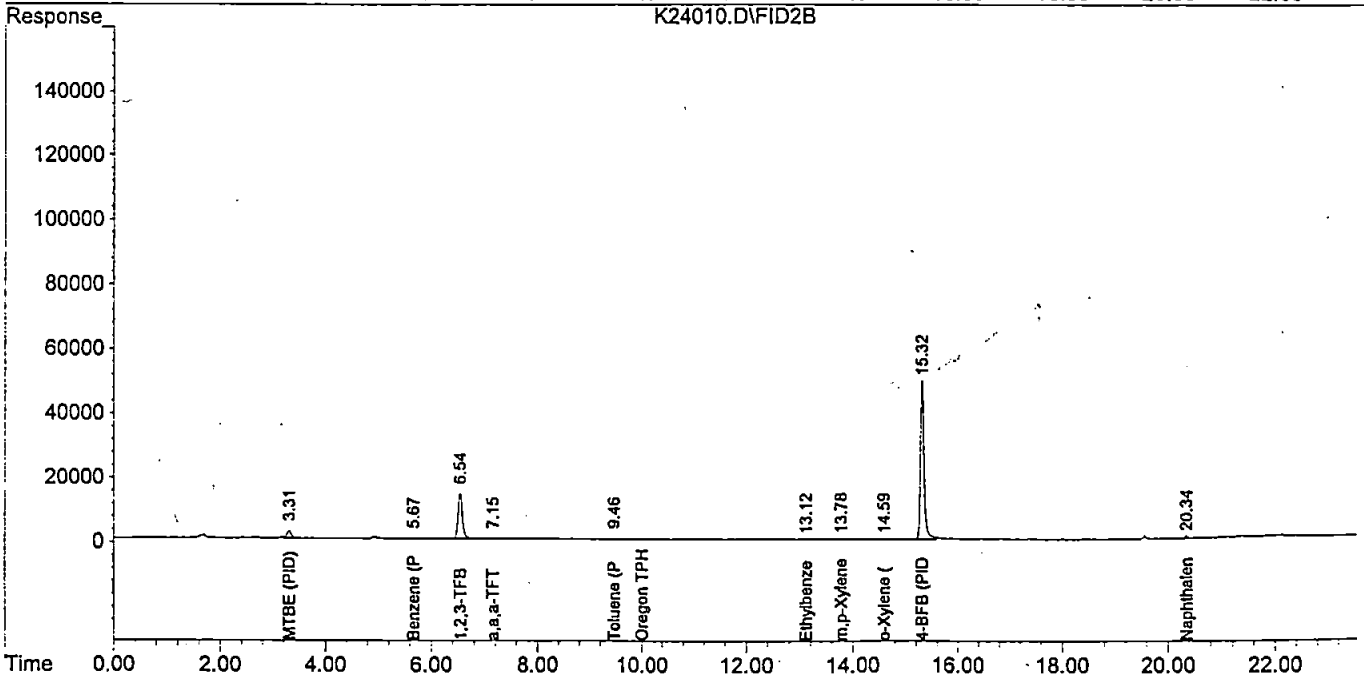
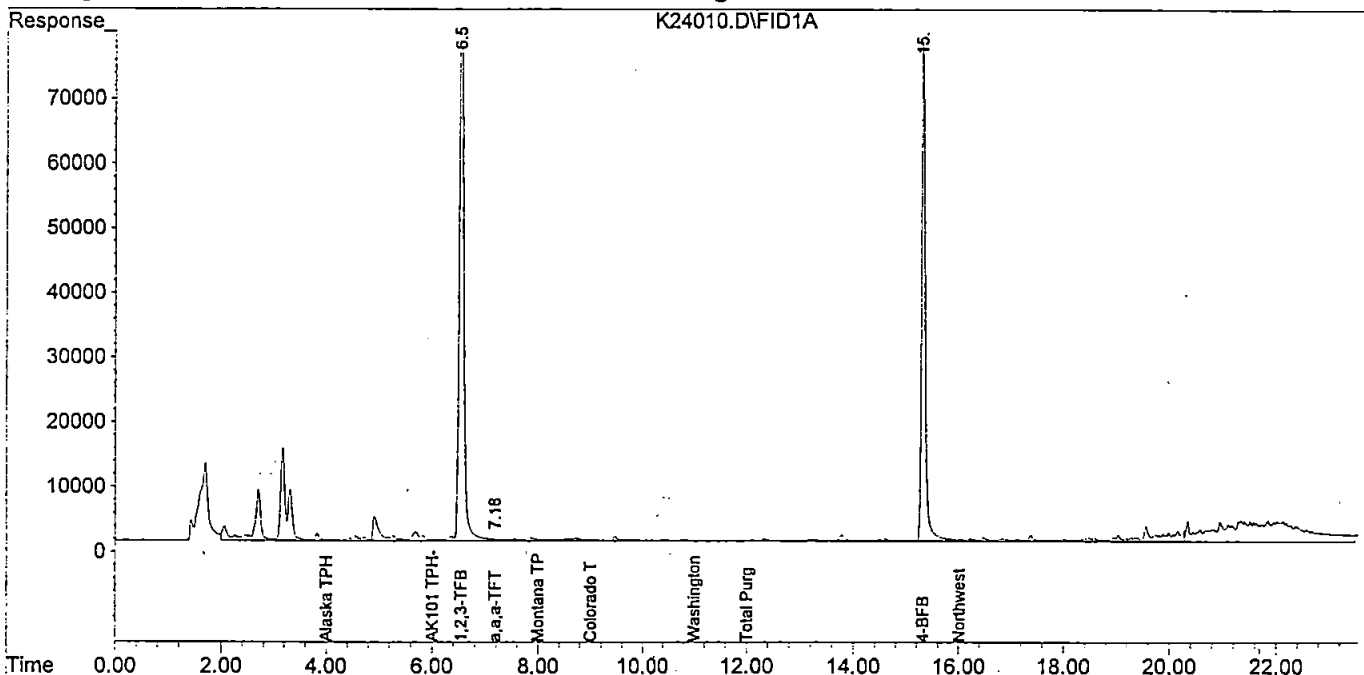
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Signal #2 : D:\HPCHEM\3\DATA\112400\K24010.D\FID2B.CH  
Acq On : 24 Nov 2000 2:41 pm Operator: GAP  
Sample : b0k0313-01 Inst : GC #6  
Misc : 5 mL Multiplr: 1.00  
Sample Amount: 0.00

IntFile Signal #1: SURR.E IntFile Signal #2: SURR2.E

Quant Time: Nov 24 15:05 2000 Quant Results File: TPHG0800.RES

Quant Method : D:\HPCHEM\3\METHODS\TPHG0800.M (Chemstation Integrator)  
Title : TPH-G Water Method  
Last Update : Wed Nov 22 11:10:31 2000  
Response via : Multiple Level Calibration  
DataAcq Meth : TPHG0800.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report

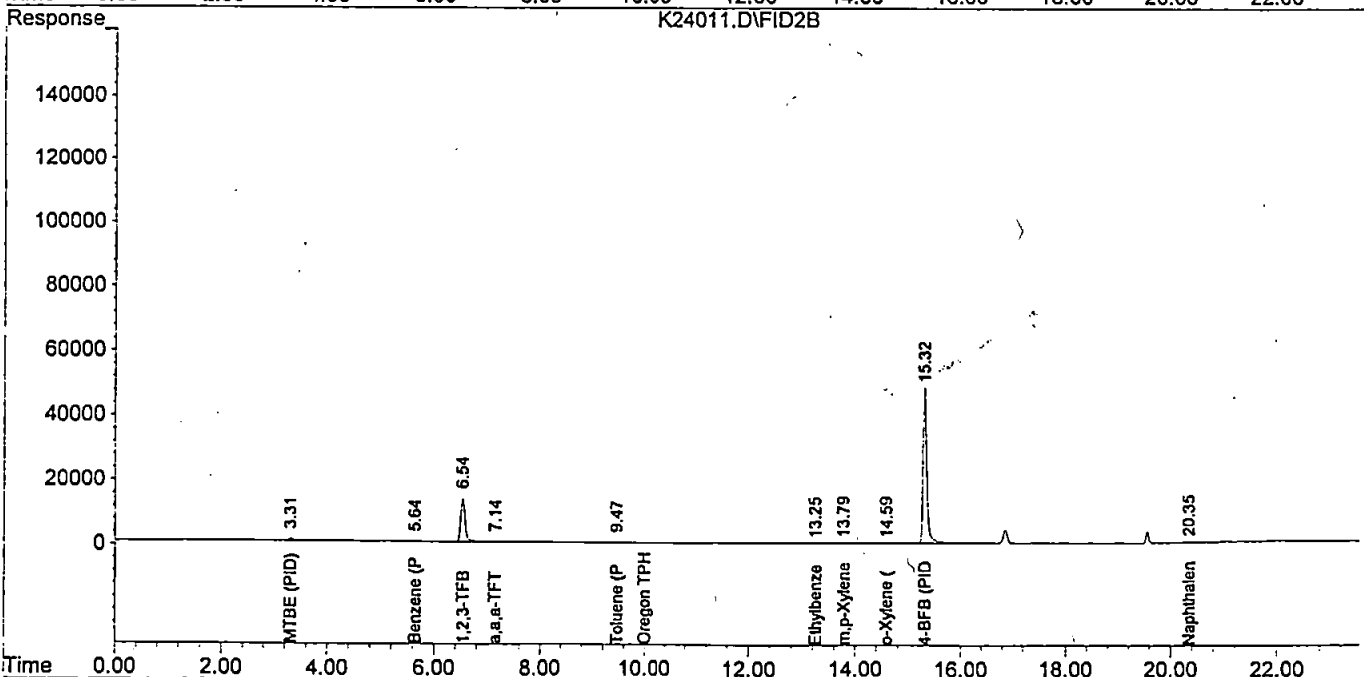
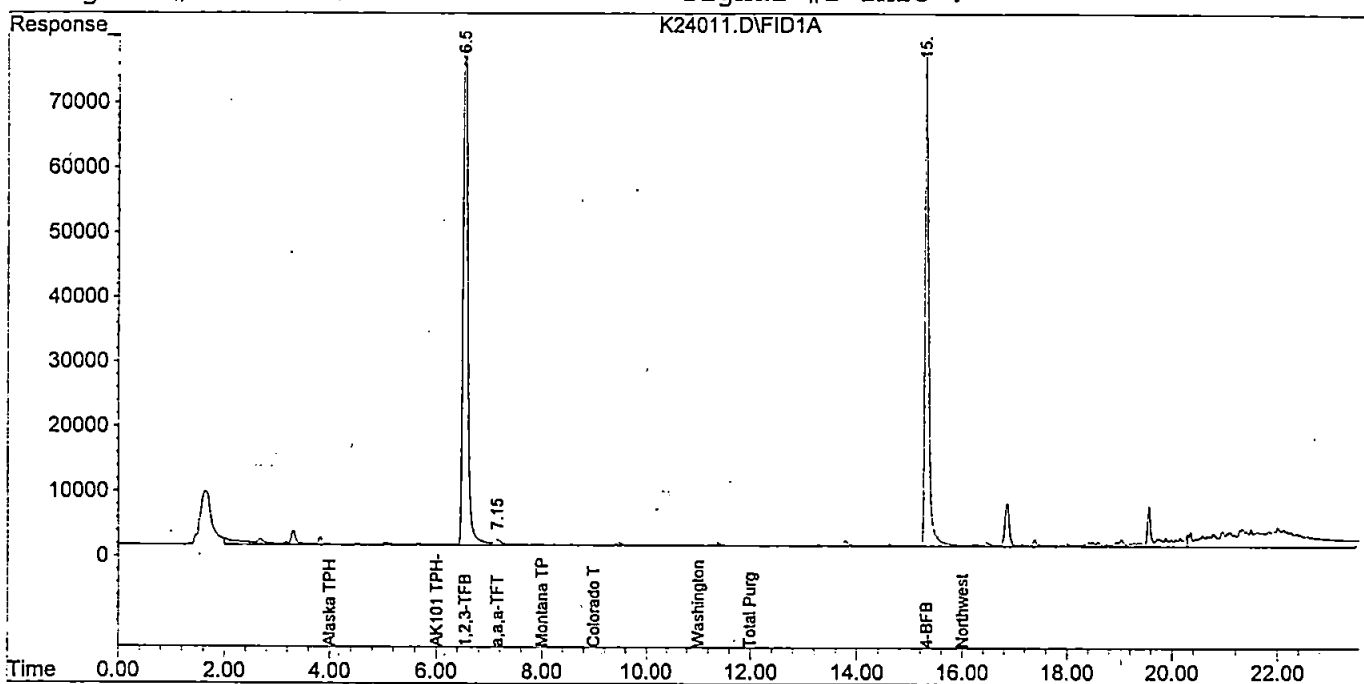
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Signal #2 : D:\HPCHEM\3\DATA\112400\K24011.D\FID2B.CH  
Acq On : 24 Nov 2000 3:11 pm Operator: GAP  
Sample : b0k0313-02 Inst : GC #6  
Misc : 5 mL Multiplr: 1.00  
Sample Amount: 0.00

IntFile Signal #1: SURR.E IntFile Signal #2: SURR2.E

Quant Time: Nov 24 15:35 2000 Quant Results File: TPHG0800.RES

Quant Method : D:\HPCHEM\3\METHODS\TPHG0800.M (Chemstation Integrator)  
Title : TPH-G Water Method  
Last Update : Wed Nov 22 11:10:31 2000  
Response via : Multiple Level Calibration  
DataAcq Meth : TPHG0800.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report

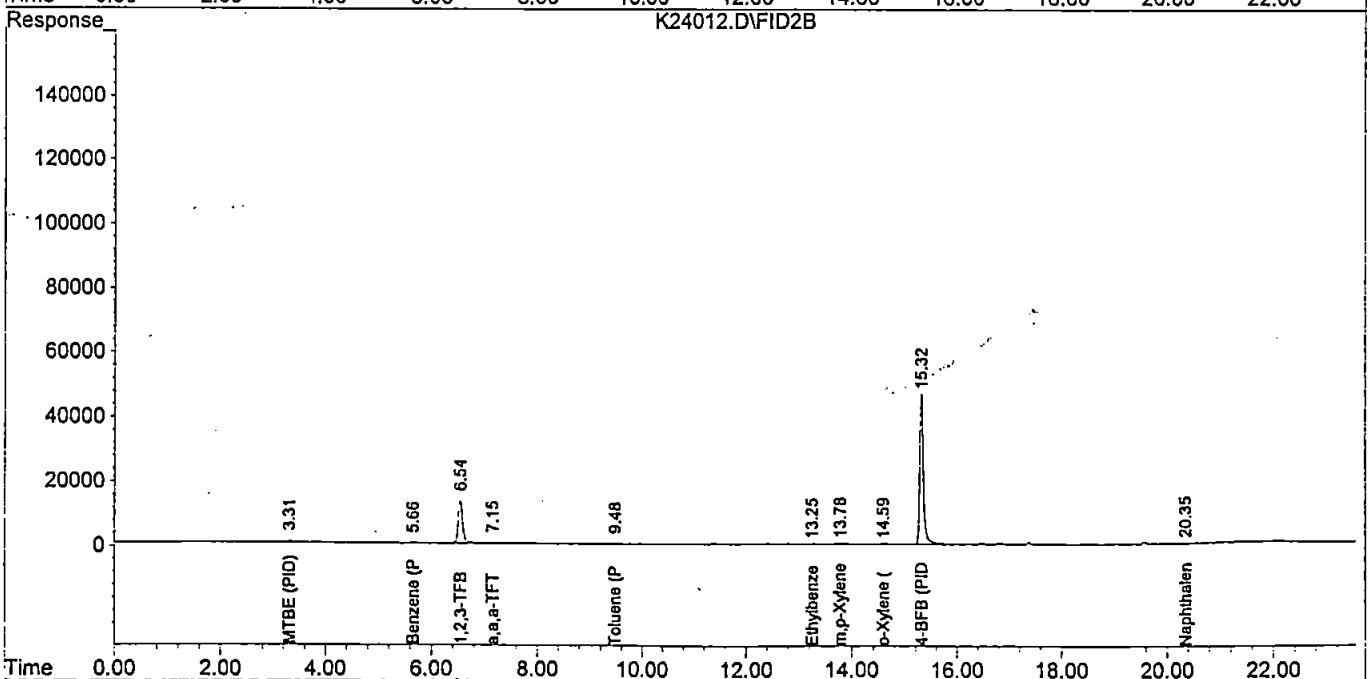
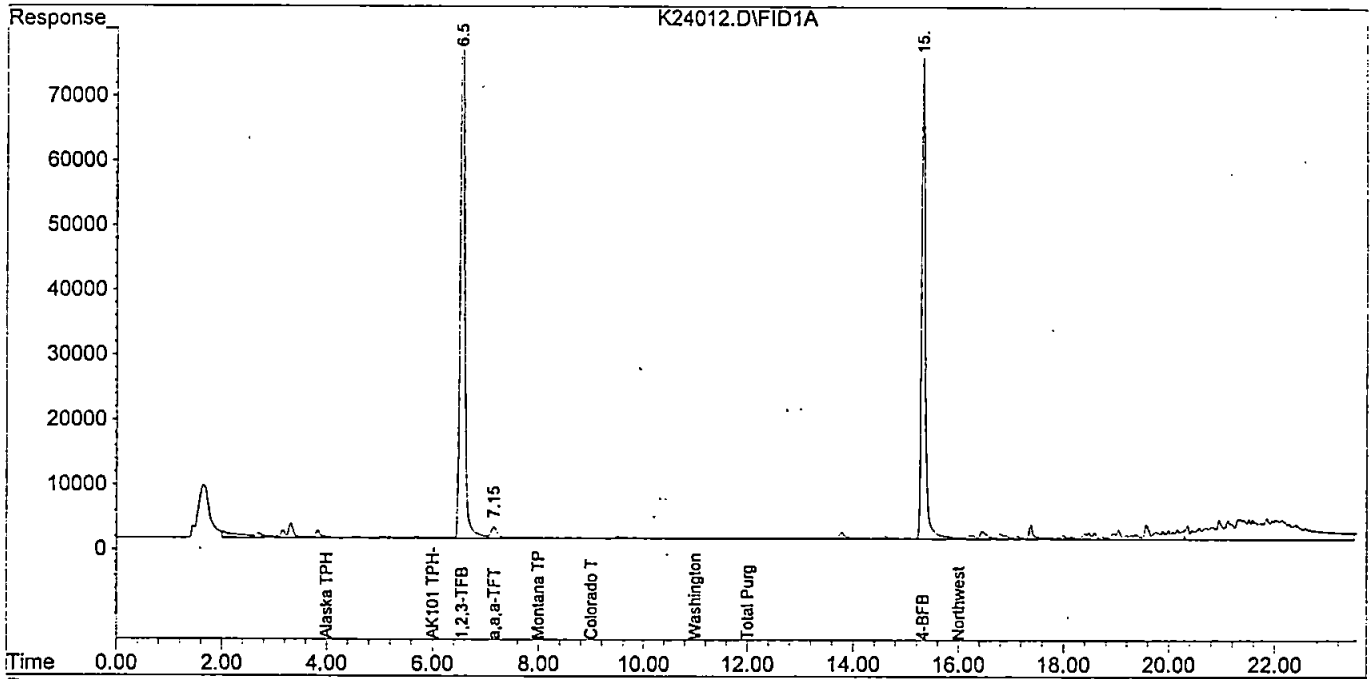
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Signal #2 : D:\HPCHEM\3\DATA\112400\K24012.D\FID2B.CH  
Acq On : 24 Nov 2000 3:41 pm Operator: GAP  
Sample : b0k0313-03 Inst : GC #6  
Misc : 5 mL Multiplr: 1.00  
Sample Amount: 0.00

IntFile Signal #1: SURR.E IntFile Signal #2: SURR2.E

Quant Time: Nov 24 16:05 2000 Quant Results File: TPHG0800.RES

Quant Method : D:\HPCHEM\3\METHODS\TPHG0800.M (Chemstation Integrator)  
Title : TPH-G Water Method  
Last Update : Wed Nov 22 11:10:31 2000  
Response via : Multiple Level Calibration  
DataAcq Meth : TPHG0800.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\112400\K24013.D\FID1A.CH Vial: 13  
Signal #2 : D:\HPCHEM\3\DATA\112400\K24013.D\FID2B.CH  
Acq On : 24 Nov 2000 4:11 pm Operator: GAP  
Sample : b0k0313-04 Inst : GC #6  
Misc : 5 mL Multiplr: 1.00  
Sample Amount: 0.00

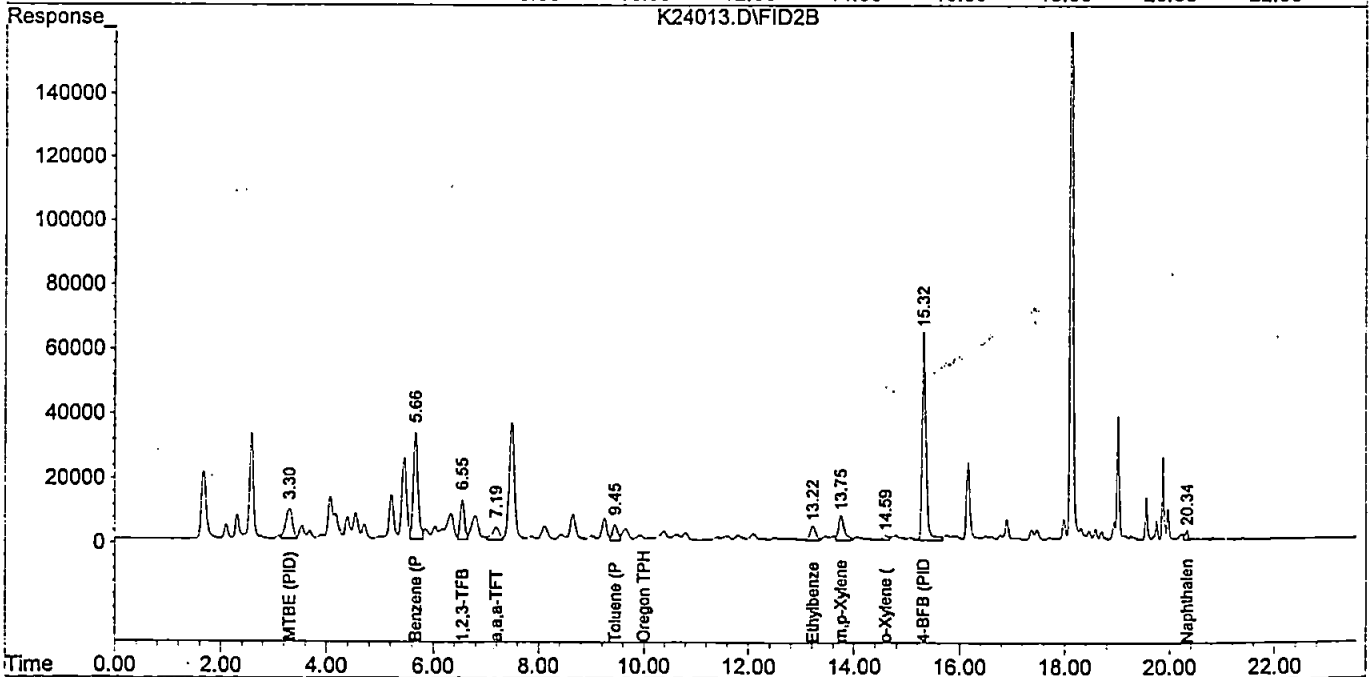
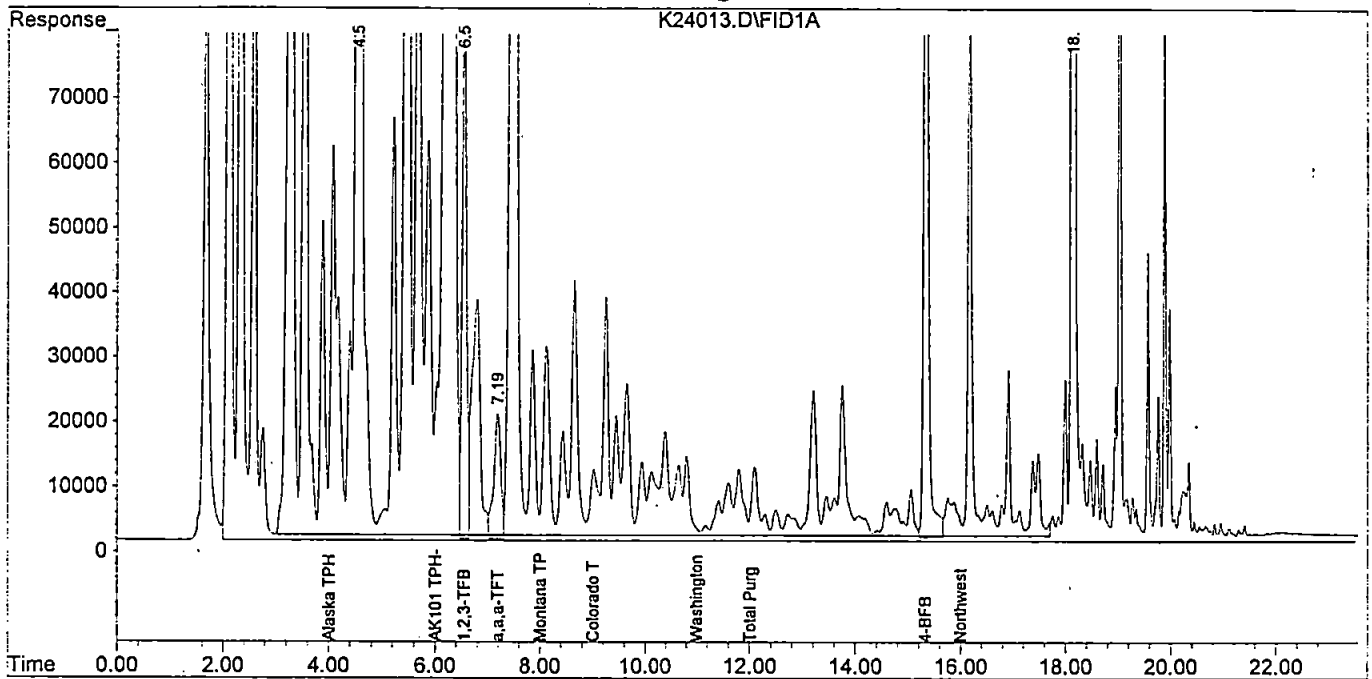
IntFile Signal #1: SURR.E

IntFile Signal #2: SURR2.E

Quant Time: Nov 24 16:35 2000 Quant Results File: TPHG0800.RES

Quant Method : D:\HPCHEM\3\METHODS\TPHG0800.M (Chemstation Integrator)  
Title : TPH-G Water Method  
Last Update : Wed Nov 22 11:10:31 2000  
Response via : Multiple Level Calibration  
DataAcq Meth : TPHG0800.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report

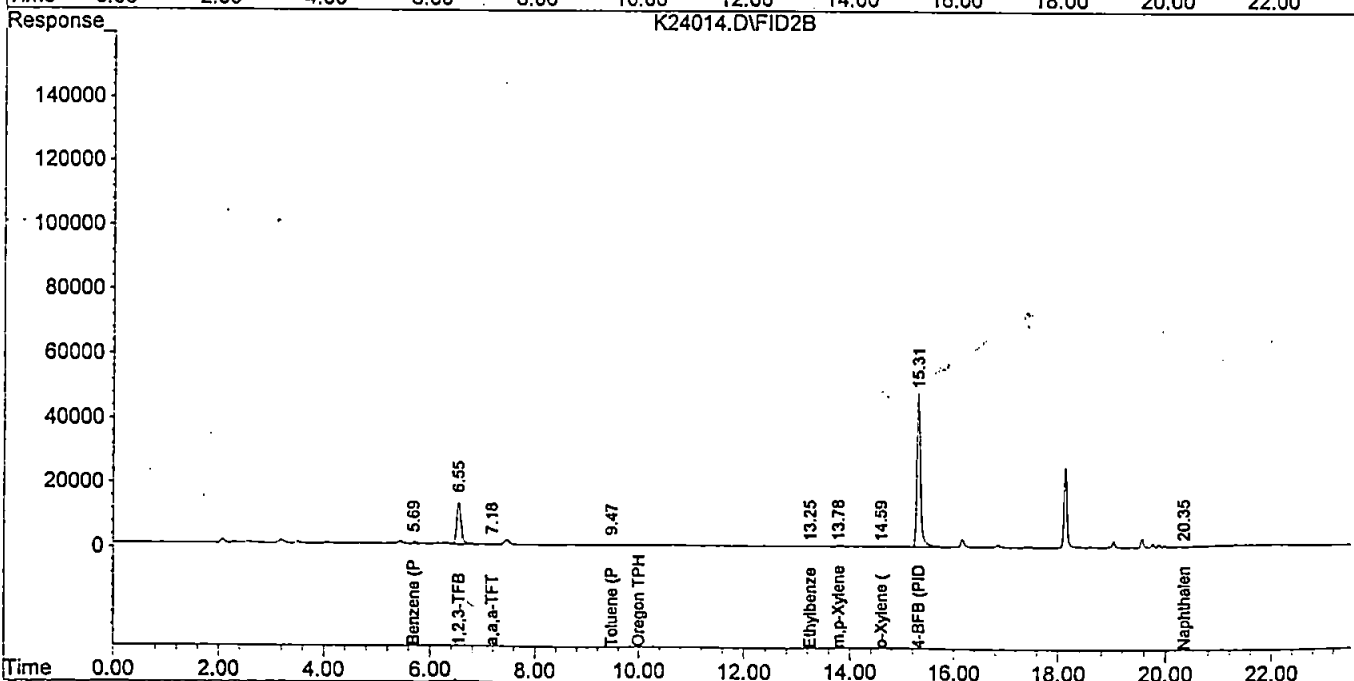
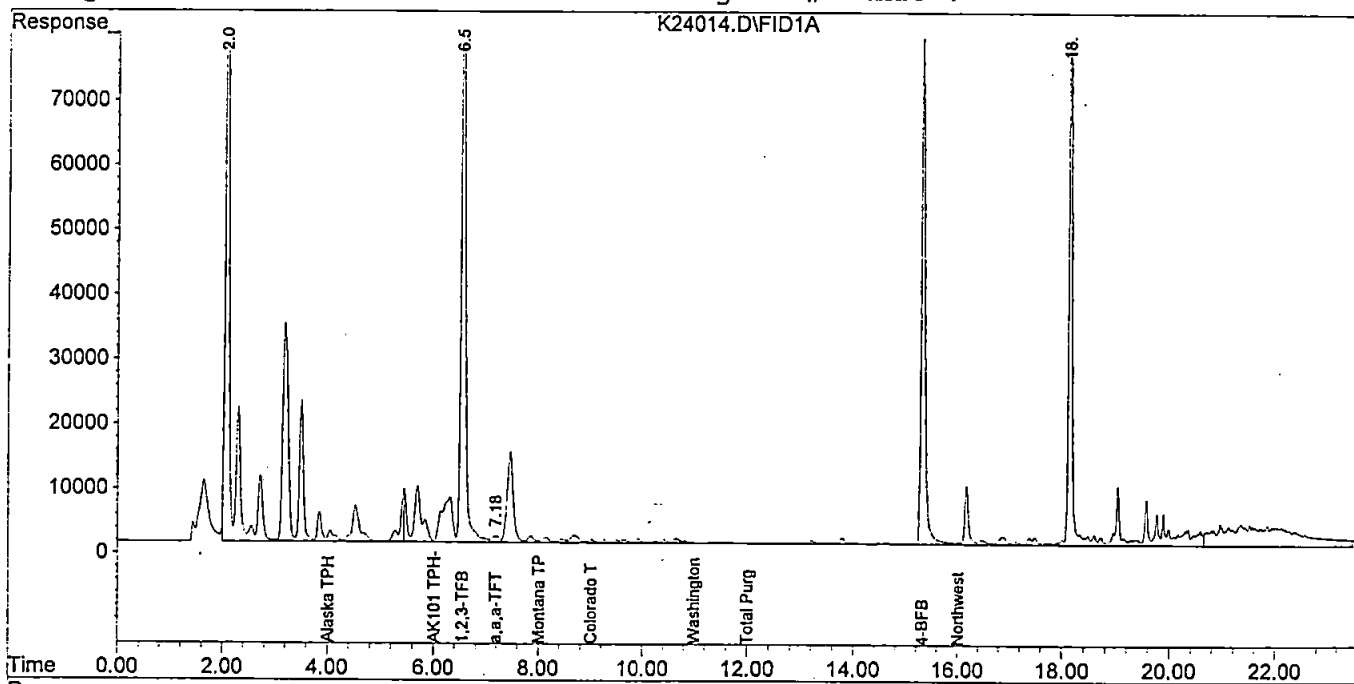
Signal #1 : D:\HPCHEM\3\DATA\112400\K24014.D\FID1A.CH Vial: 14  
Signal #2 : D:\HPCHEM\3\DATA\112400\K24014.D\FID2B.CH  
Acq On : 24 Nov 2000 4:40 pm Operator: GAP  
Sample : b0k0313-05 Inst : GC #6  
Misc : 5 mL Multiplr: 1.00  
Sample Amount: 0.00

IntFile Signal #1: SURR.E IntFile Signal #2: SURR2.E

Quant Time: Nov 24 17:04 2000 Quant Results File: TPHG0800.RES

Quant Method : D:\HPCHEM\3\METHODS\TPHG0800.M (Chemstation Integrator)  
Title : TPH-G Water Method  
Last Update : Wed Nov 22 11:10:31 2000  
Response via : Multiple Level Calibration  
DataAcq Meth : TPHG0800.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



QUANTIFICATION REPORT

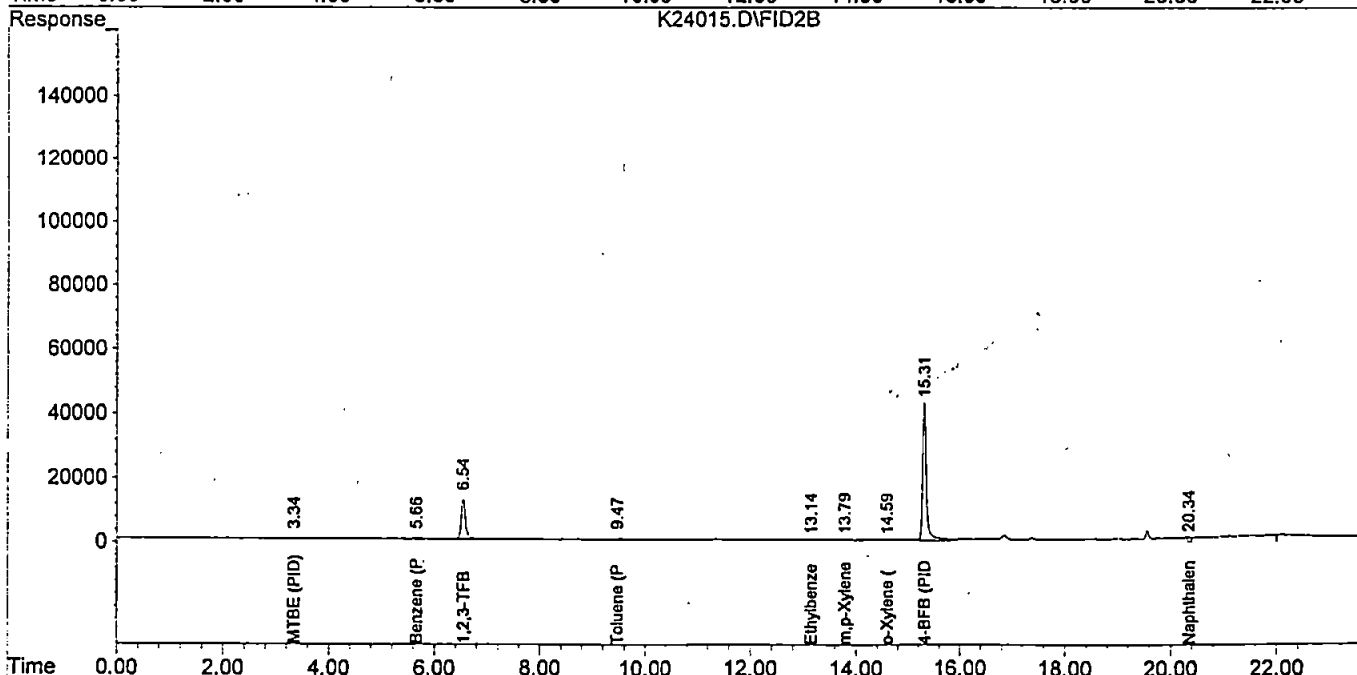
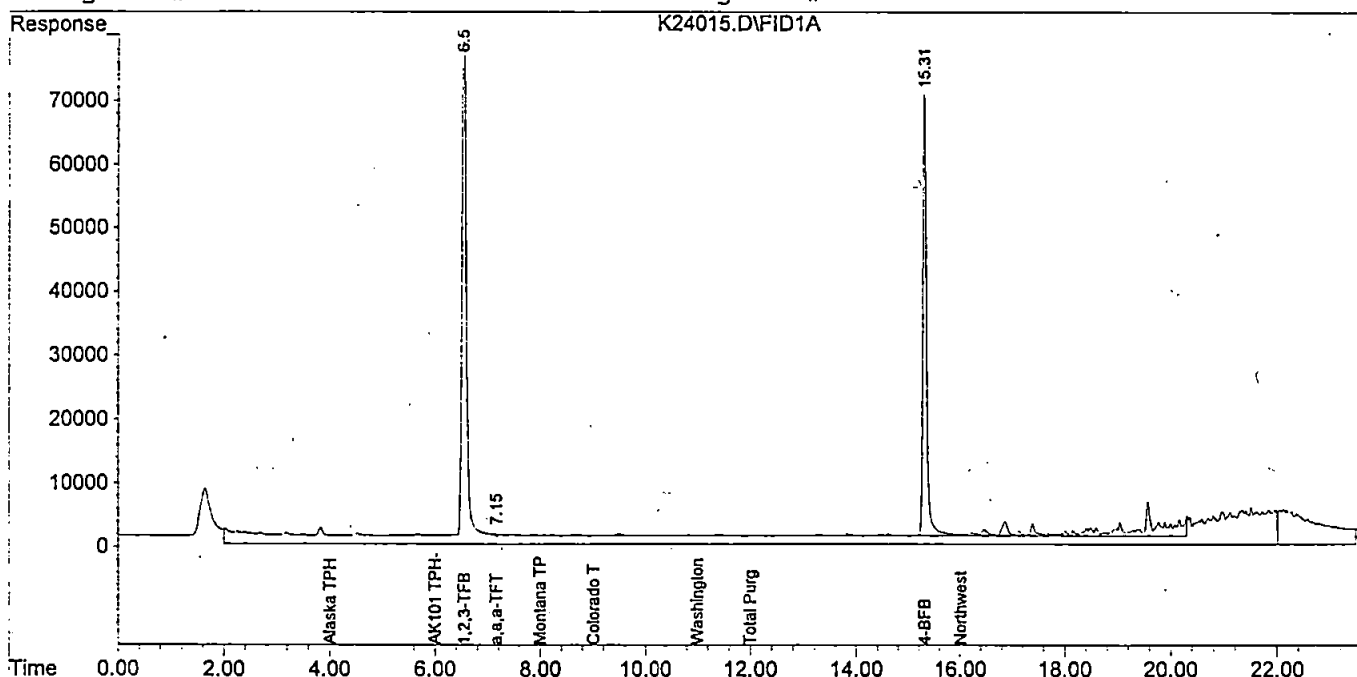
Signal #1 : D:\HPCHEM\3\DATA\112400\K24015.D\FID1A.CH Vial: 15  
Signal #2 : D:\HPCHEM\3\DATA\112400\K24015.D\FID2B.CH  
Acq On : 24 Nov 2000 5:10 pm Operator: GAP  
Sample : b0k0313-06 Inst : GC #6  
Misc : 5 mL Multiplr: 1.00  
Sample Amount: 0.00

IntFile Signal #1: SURR.E IntFile Signal #2: SURR2.E

Quant Time: Nov 24 17:34 2000 Quant Results File: TPHG0800.RES

Quant Method : D:\HPCHEM\3\METHODS\TPHG0800.M (Chemstation Integrator)  
Title : TPH-G Water Method  
Last Update : Wed Nov 22 11:10:31 2000  
Response via : Multiple Level Calibration  
DataAcq Meth : TPHG0800.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report

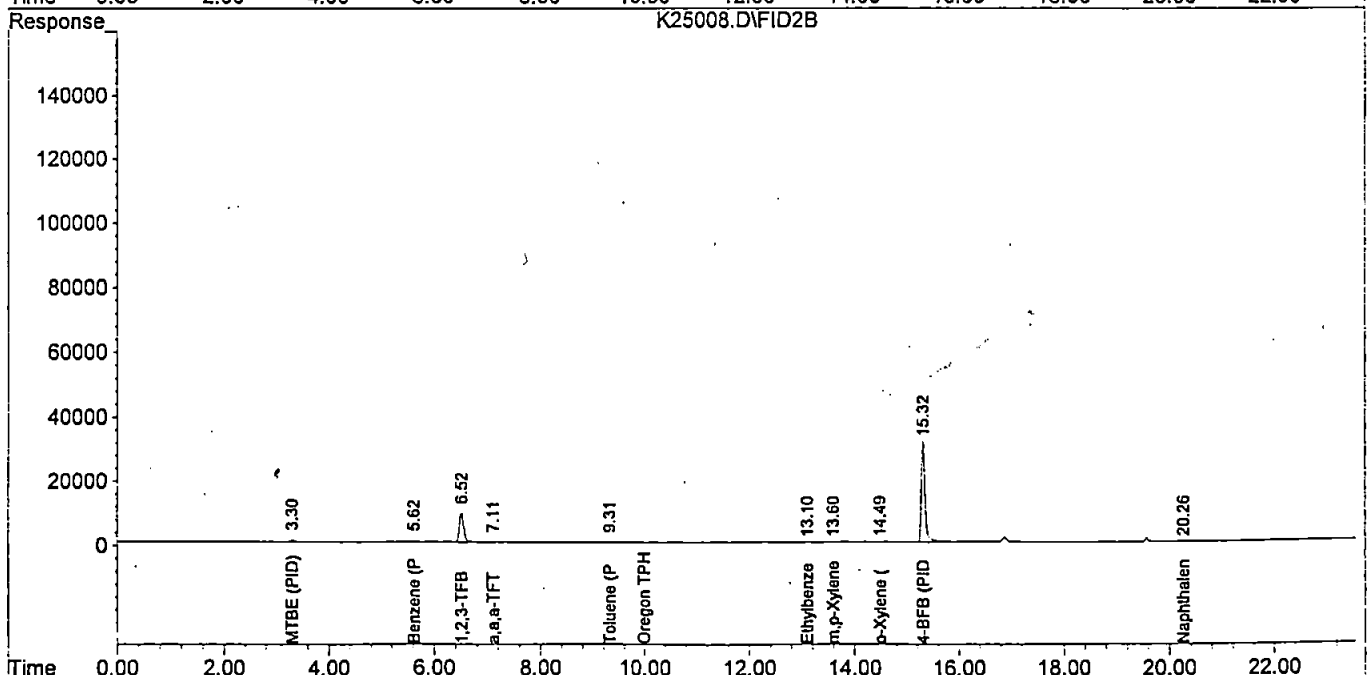
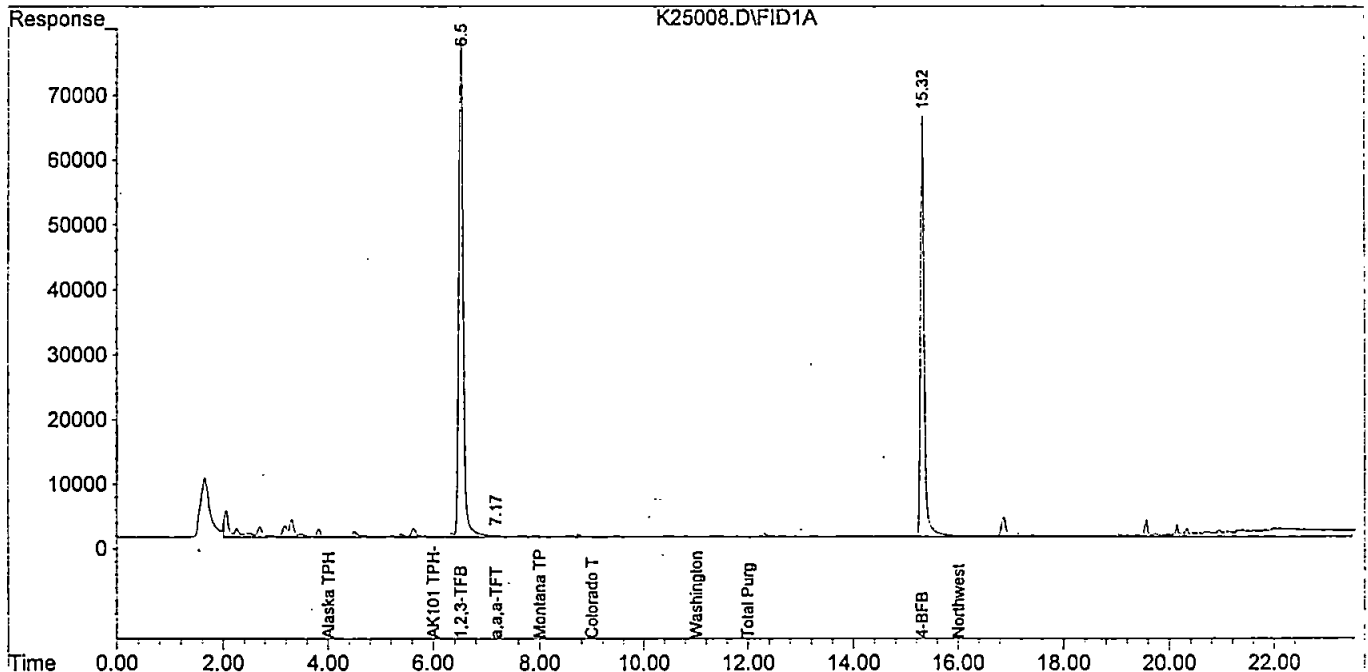
Signal #1 : D:\HPCHEM\3\DATA\112500\K25008.D\FID1A.CH Vial: 8  
Signal #2 : D:\HPCHEM\3\DATA\112500\K25008.D\FID2B.CH  
Acq On : 25 Nov 2000 12:24 pm Operator: GAP  
Sample : b0k0313-07 r1 Inst : GC #6  
Misc : 5 mL Multiplr: 1.00  
Sample Amount: 0.00

IntFile Signal #1: SURR.E IntFile Signal #2: SURR2.E

Quant Time: Nov 25 12:48 2000 Quant Results File: TPHG0800.RES

Quant Method : D:\HPCHEM\3\METHODS\TPHG0800.M (Chemstation Integrator)  
Title : TPH-G Water Method  
Last Update : Wed Nov 22 11:10:31 2000  
Response via : Multiple Level Calibration  
DataAcq Meth : TPHG0800.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :





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 (509) 924-9200 FAX 924-9290  
 (503) 906-9200 FAX 906-9210  
 (541) 383-9310 FAX 382-7588

# TOSCO CHAIN OF CUSTODY REPORT

BOK0313

**TOSCO INFORMATION**

Facility Number: 5516

Site Address: 1800 15th Ave - W.  
 City, State, ZIP: Seattle, WA

Project/AWO Code

Tosco Manager: Timothy D. Johnson

FACILITY TYPE: (check one)  BP/☉  Terminal/Bulk Plant  
 Brown Bear  Former 76 Site  Other

**CONSULTANT INFORMATION**

Firm: Shannon & Wilson Project# 21-1-11673-005

Address: 400 N - 34th St #100  
 Seattle, WA 98103

Phone: 206-632-8020 Fax: 206-495-6777

Project Manager: Stephen Dailey E-mail: smd@shanwil.com

Sample Collection by: SMO

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

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

SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W,S,O)	# OF CONTAINERS
1. 55160010	11/12/00, 0825	W	2
2. 55160011	11/12/00, 0850	W	2
3. 55160012	11/12/00, 0915	W	2
4. 55160013	11/12/00, 0940	W	2
5. 55160014	11/12/00, 1005	W	2
6. 55160015	11/12/00, 1120	W	2
7. 55160016	11/12/00, 1150	W	2
8.			
9.			
10.			

○ OR ○ WA ○ AK ○ NW Series ○ ID													
TPH-HCID	TPH-Gas	BTEX EPA 8021 Mod.	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-Diesel-Ext. w/SG Cleanup	Halogen, Volatiles EPA 8021	Pesticides/PCBs or PCBs Only	GC/MS Volatiles EPA 8260	GC/MS SemiVol. EPA 8270	PAH's: 8270 SIM or 8310	Lead:	Total or Dissolved TCLP or RCRA Metals (6)
			✓										
			✓										
			✓										
			✓										
			✓										
			✓										

NCA SAMPLE NUMBER

BOK0313-01  
 02  
 03  
 04  
 05  
 06  
 07

1. Relinquished by: <u>[Signature]</u> Firm: <u>SW</u> Date & Time: <u>11/13/00, 0825</u>	Received by: <u>[Signature]</u> Firm: <u>NCA</u> Date & Time: <u>11/13/00 13:30</u>
2.	
3.	

Comments:

6.0°  
 0/0