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July 17, 2003

Mr. Kirk Pompillius
Sunoco, Inc. (R&M)
C/o GES
9436 Maltby Road
Brighton, MI 48116

**RE: Second Quarter 2003 Sampling Results
Sunoco Former Bulk Station
4764 420th Street SE, Iowa City, Iowa**

Dear Mr. Pompillius:

This letter report discusses the results of the groundwater sampling event at the above referenced site on May 7, 2003. Monitoring wells MW-2, MW-3, MW-4, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-17, MW-20, MW-21, MW-23, MW-24, MW-25, and the on-site water well (DWW) were included in this round of sampling.

Analytical results of groundwater from MW-2, MW-3, MW-4, MW-8, MW-10, MW-13, MW-15, and MW-17 indicated dissolved hydrocarbon levels above Iowa RBCA Tier 1 Standards, federal drinking water standards, and/or Iowa Land Recycling Program standards. Those wells that exceed the benzene action level of 5 ppb include MW-2 (774 ppb), MW-3 (4,500 ppb), MW-8 (2,680), MW-10 (17,500 ppb), MW-13 (58.0 ppb), MW-15 (10,500 ppb), and MW-17 (876 ppb). When these results are compared to the previous sampling results, benzene concentrations are observed to have decreased since the initial sampling event on April 2, 2001, for MW-2, MW-3, MW-10, MW-15, and MW-17.

Groundwater analytical results from MW-2, MW-3, MW-10, and MW-15 exceeded the toluene action level of 1,000 ppb (1,470 ppb, 4,490 ppb, 13,400 ppb, and 4,220 ppb respectively). All wells with the exception of MW-10 have shown a decrease in toluene concentration as compared with the initial sampling event.

Groundwater analytical results from MW-10 and MW-15 exceeded the ethyl benzene action level of 700 ppb (1,500 ppb and 1,670 ppb respectively).

Groundwater analytical results from MW-2, MW-3, MW-4, MW-10, MW-13 and MW-15 contained concentrations of TEH-Diesel components of 8,930 ppb, 15,400 ppb, 1,530 ppb, 3,110 ppb, 1,440 ppb, and 5,220 ppb, respectively which are above the

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established action level of 1,200 ppb (IA RBCA Tier I screening levels). Three wells (MW-2, MW-3 and MW-4) show an overall decrease in TEH-Diesel components since April 2001. MW-10, MW-13, and MW-15 exhibited an increase in TEH-Diesel components relative to initial sampling data.

Groundwater analytical results from MW-2, MW-3, MW-4, MW-10 and MW-15 contained concentrations above the established screening level of 400 ppb for TEH-Waste Oil (IA RBCA Tier 1 screening levels) with concentrations of 2,890 ppb, 6,920 ppb, 2,030 ppb, 1,070 ppb and 689 ppb respectively. Concentrations from MW-2, and MW-3 show a decreasing trend.

This round of sampling identified groundwater from MW-10 as having the highest dissolved phase concentrations of benzene and toluene and MW-15 as having the highest dissolved phase concentration of ethyl benzene. Groundwater collected from MW-3 contained the highest dissolved phase TEH-Diesel and TEH-Waste Oil levels.

All results have been compiled for your review in Table 1 (attached). Also enclosed is a site map for the property. Laboratory data sheets are included at the end of this report. Apex will continue to monitor wells at the site per IDNR protocol. Please contact me at (515) 727-8025 with any questions or comments. Apex Environmental, Inc. is pleased to have the opportunity to serve Sunoco in their environmental needs.

Sincerely,
Apex Environmental, Inc.



319-648-4065

Julie Richardson, ICGP 1703
Sr. Project Manager

Attachments

Cc: Mr. Dan Cook, IDNR Contaminated Sites

Table 1: Laboratory Analytical Data for Groundwater

**Former Sunoco Bulk Station
Iowa City, Iowa**

Sampling Location	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	TEH-Diesel (ug/L)	TEH-Waste Oil (ug/L)	MTBE (ug/L)
MW-1	04/02/2001	372	222	34.0	181	1,000	<380	<5.0
MW-1	04/23/2002	47.6	10.2	2.9	36.5	812	1350	<1.0
MW-1	07/11/2002	61.7	10.3	5.3	28.3	509	446	<1.0
MW-1	05/07/2003	NS	NS	NS	NS	NS	NS	NS
MW-2	04/02/2001	1,060	2,100	462	3,100	25,100	9,100	194
MW-2	04/23/2002	310	200	70	1,180	6,470	6,890	37
MW-2	07/11/2002	354	68.8	15.7	241	2,180	4,650	4.7
MW-2	10/01/2002	444	189	47	635	5,680	4,150	<10
MW-2	02/11/2003	337	590	39	1,380	3,860	1,330	<20
MW-2	05/07/2003	774	1,470	253	2,260	8,930	2,890	261
MW-3	04/02/2001	5,760	9,290	1,040	7,240	18,500	31,200	<50
MW-3	04/23/2002	3,660	3,880	325	2,930	28,700	34,300	<10
MW-3	07/11/2002	3,660	3,130	437	2,850	7,680	10,100	<20
MW-3	05/07/2003	4,500	4,490	387	3,310	15,400	6,920	<20
MW-4	04/02/2001	<1.0	<1.0	3.4	10.8	1,600	2,310	<1.0
MW-4	04/23/2002	3.0	6.4	23.0	120	1,910	12,700	<1.0
MW-4	10/01/2002	3	5	23	81.2	393	987	<1
MW-4	02/11/2003	1.9	6.8	14.6	53.0	836	519	<1.0
MW-4	05/07/2003	<5.0	18.0	76.0	304	1,530	2,030	<5.0
MW-5	04/02/2001	3.2	<1.0	<1.0	<3.0	489	462	<1.0
MW-5	05/07/2003	NS	NS	NS	NS	NS	NS	NS
MW-6	05/01/2001	40.3	<5.0	<5.0	94.0	1,050	<380	<5.0
MW-6	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-6	05/07/2003	NS	NS	NS	NS	NS	NS	NS
MW-7	05/01/2001	<1.0	<1.0	<1.0	<3.0	<380	<380	20.6
MW-7	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	4.2
MW-7	05/07/2003	NS	NS	NS	NS	NS	NS	NS
MW-8	05/01/2001	213	48.4	25.3	<15	415	<380	1650
MW-8	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	160
MW-8	07/11/2002	41.6	<1.0	<1.0	<3.0	<380	<380	284
MW-8	10/01/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	188
MW-8	02/11/2003	3.5	<1.0	<1.0	<3.0	<380	<380	352
MW-8	05/07/2003	2,680	225	193	50	540	<380	1,100
MW-9	05/01/2001	213	<5.0	25	<15	415	<380	7.7
MW-9	04/23/2002	76.8	<1.0	19.8	4.7	<380	<380	3.1
MW-9	05/07/2003	NS	NS	NS	NS	NS	NS	NS
MW-10	05/01/2001	18,000	12,500	2,020	4,180	1,770	<380	182
MW-10	04/23/2002	20,400	14,500	1,450	3,170	2,850	400	56.5
MW-10	10/01/2002	15,000	437	1,390	1,490	3,780	<380	283
MW-10	02/11/2003	12,000	2,280	716	1,460	3,340	506	129
MW-10	05/07/2003	17,500	13,400	1,500	3,270	3,110	1,070	<50

Table 1: Laboratory Analytical Data for Groundwater**Former Sunoco Bulk Station
Iowa City, Iowa**

Sampling Location	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	TEH-Diesel (ug/L)	TEH-Waste Oil (ug/L)	MTBE (ug/L)
MW-11	05/01/2001	39.0	31.1	8.3	16.6	<380	<380	<1.0
MW-11	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-11	10/01/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-11	02/11/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-11	05/07/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-12	05/01/2001	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-12	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-12	07/11/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-12	10/01/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-12	02/11/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-12	05/07/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-13	05/01/2001	46.3	17.0	28.4	5.1	1,010	<380	1.6
MW-13	04/23/2002	3.9	<1.0	11.6	<3.0	526	<380	<1.0
MW-13	10/01/2002	50.5	<1	416	316	1,870	<380	<1.0
MW-13	02/11/2003	66.8	<5.0	195	<15	2,360	<380	<5.0
MW-13	05/07/2003	58.0	<5.0	67.0	32	1,440	<380	<5.0
MW-14	05/01/2001	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-14	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-14	10/01/2002	<1.0	<1.0	2.2	<3.0	<380	<380	<1.0
MW-14	02/11/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-14	05/07/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-15	05/01/2001	17,800	7,640	2,630	5,550	5,790	<380	197
MW-15	04/23/2002	11,300	3,890	1,440	2,820	3,660	<380	36
MW-15	07/11/2002	9,950	4,570	1,400	2,680	4,440	383	<50
MW-15	10/01/2002	9,870	6,800	1,840	3,350	4,450	<383	<25
MW-15	02/11/2003	10,400	5,100	1,960	3,490	4,590	712	<25
MW-15	05/07/2003	10,500	4,220	1,670	3,290	5,220	689	<100
MW-16	09/12/2001	2.0	<1.0	<1.0	<3.0	<380	<380	1.3
MW-16	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-16	05/07/2003	NS	NS	NS	NS	NS	NS	NS
MW-17	09/12/2001	3,030	380	252	104	1,280	<380	1390
MW-17	04/23/2002	94.3	3.8	<1.0	6.2	<380	<380	350
MW-17	07/11/2002	320	7.4	4.4	4.2	<380	<380	202
MW-17	10/01/2002	108	<1.0	<1.0	<3.0	<380	<380	302
MW-17	02/11/2003	<1.0	<1.0	<1.0	<3.0	4,500	523	1,520
MW-17	05/07/2003	876	376	84.6	65	925	<380	964
MW-18	09/12/2001	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-18	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-18	05/07/2003	NS	NS	NS	NS	NS	NS	NS
MW-19	09/12/2001	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-19	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0

Table 1: Laboratory Analytical Data for Groundwater

**Former Sunoco Bulk Station
Iowa City, Iowa**

Sampling Location	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	TEH-Diesel (ug/L)	TEH-Waste Oil (ug/L)	MTBE (ug/L)
MW-19	05/07/2003	NS	NS	NS	NS	NS	NS	NS
MW-20	09/12/2001	24.9	<1.0	<1.0	<3.0	<380	<380	63
MW-20	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	60.3
MW-20	07/11/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	60.2
MW-20	10/01/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-20	02/11/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	16.3
MW-20	05/07/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-21	09/12/2001	57	3	24	20	<380	<380	<1.0
MW-21	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-21	07/11/2002	1.2	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-21	10/01/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	1.8
MW-21	02/11/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-21	05/07/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-22	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-22	05/07/2003	NS	NS	NS	NS	NS	NS	NS
MW-23	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	23.8
MW-23	10/01/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-23	05/07/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-24	04/23/2002	11.0	<1.0	<1.0	<3.0	<380	<380	146
MW-24	07/11/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-24	10/01/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-24	02/11/2003	<5.0	<5.0	<5.0	<15	<566	<566	168
MW-24	05/07/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-25	04/23/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-25	07/11/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-25	10/01/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
MW-25	02/11/2003	<1.0	<1.0	2.4	13.3	985	<380	<1.0
MW-25	05/07/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
DWW	06/04/2002	<1	<1.0	<1.0	<3.0	<380	<380	<1.0
DWW	07/11/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
DWW	10/01/2002	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
DWW	02/11/2003	<1.0	2.6	<1.0	<3.0	<380	<380	<1.0
DWW	05/19/2003	<1.0	<1.0	<1.0	<3.0	<380	<380	<1.0
ILRP Standards		5	1,000	700	10,000	**	**	**
Federal SDWA Standards		5	1,000	700	10,000	**	**	20
IA RBCA Tier 1 Levels		5	1,000	700	10,000	1,200	400	**
Bold values indicate concentration exceeds action level ** Action level not defined.								

Note: ug/L = parts per billion (ppb)

**Former Sunoco Bulk Station
Iowa City, Iowa**

Sampling Location	Date	Depth of Sample	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	TEH-Diesel (mg/Kg)	TEH-Waste Oil (mg/Kg)	MTBE (mg/Kg)
MW-6	04/26/2001		<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-7	04/26/2001	8'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-8	04/26/2001	8'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-9	04/26/2001	9'	0.01	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-10	04/26/2001	7'	1.51	0.076	0.977	1.04	<10	<10	0.136
MW-11	04/26/2001	7'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-12	04/26/2001	5'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-13	04/26/2001	7'	0.013	<0.005	1.2	0.058	30.3	<10	<0.015
MW-14	04/26/2001	5'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-15	04/26/2001	7'	0.729	0.544	1.56	3.03	153	<10	<0.015
MW-16	09/10/2001	8'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-17	09/10/2001	14'	0.304	0.008	0.038	<0.015	<10	<10	0.175
MW-18	09/11/2001	8'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-19	09/11/2001	8'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-20	09/11/2001	12'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-21	09/11/2001	8'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-22	04/22/2002	4'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-23	04/22/2002	4'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-24	04/22/2002	4'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
MW-25	04/22/2002	4'	<0.005	<0.005	<0.005	<0.015	<10	<10	<0.015
B-1	09/11/2001	8'	<0.1	<0.1	3.2	3.93	64	<10	<0.38
B-2	09/11/2001	8'	0.517	0.005	0.734	<0.015	26	<10	<0.015
B-3	09/11/2001	8'	8.6	43.2	15.1	65.6	121	<10	<0.34
B-4	09/11/2001	10'	0.7	0.2	0.8	1.21	15	<10	<0.37
ILRP Standards			73	16,000	7,800	160,000	**	**	2,300
IA RBCA Tier 1 Levels			0.54	42	15	**	3,800	**	**

mg/Kg = parts per million (ppm); **Bold** values indicate concentration exceeds action level;
 ** Action Level not yet defined