

Table 4
Summary of Soil Analytical Results AKT Peerless
 Fisher Brothers, Bay City, Mi
 AKT Peerless Project Number 3522F-2-20

Sample Identification and Date		B-1 (1-2) 3-5-02	B-2 (4-5) 3-5-02	B-3 (3-4) 3-5-02	B-4 (1-2) 3-5-02	B-5 (3-4) 3-5-02	B-6 (3-4) 3-5-02	B-7 (3-4) 3-5-02	B-8 (2-4) 3-5-02	B-9 (2-3) 3-5-02	B-10 (7-8) 3-5-02	MDEQ Generic Residential Drinking Water Protection Criteria α	MDEQ Generic Residential Soil Direct Contact Criteria α	MDEQ Generic Residential Soil Volatilization to Ambient Air Inhalation Criteria α	MDEQ Generic Residential Soil Volatilization to Indoor Air Inhalation Criteria α	MDEQ Generic Industrial Soil Direct Contact Value a	MDEQ Generic Industrial Soil Volatilization to Ambient Air Inhalation Criteria a	MDEQ Generic Industrial Soil Volatilization to Indoor Air Inhalation Criteria a
Gasoline Parameters ($\mu\text{g}/\text{kg}$)	CAS#																	
Benzene	71432	<50	<50	<50	150	<50	<50	<50	<50	<50	<50	100	180,000	13,000	1,600	400,000	45,000	8,400
Toluene	108883	270	<50	<50	1,900	<50	120	<50	<50	<50	<50	16,000	250,000	2,800,000	250,000	250,000	3.3E+06	250,000
Ethylbenzene	100414	<50	<50	<50	500	<50	<50	<50	<50	<50	<50	1,500	140,000	9,500,000	140,000	140,000	11,000,000	140,000
Tetrachloroethylene	127184	<50	<50	<50	<50	<50	620	<50	<50	<50	<50	100	88,000	180,000	11,000	88,000	600,000	60,000
n-Propylbenzene	103651	<100	NA	NA	290	<100	<100	<100	<100	<100	<100	1,600	2,500,000	ID	ID	10,000,000	ID	ID
Xylenes	1330207	420	<150	<150	6,200	<150	230	<150	<150	<150	<150	5,600	150,000	46,000,000	150,000	150,000	54,000,000	150,000
n-Butylbenzene	104518	<50	NA	NA	260	<50	<50	<50	<50	<50	<50	1,600	2,500,000	ID	ID	10,000,000	ID	ID
sec-Butylbenzene	135998	<50	NA	NA	69	<50	<50	<50	<50	<50	<50	1,600	2,500,000	ID	ID	10,000,000	ID	ID
1,2,4-Trimethylbenzene	95636	110	<100	<100	3,100	<100	110	<100	<100	<100	<100	2,100	110,000	21,000,000	110,000	110,000	25,000,000	110,000
1,3,5-Trimethylbenzene	108678	<100	<100	<100	1,400	<100	<100	<100	<100	<100	<100	1,800	94,000	16,000,000	94,000	94,000	19,000,000	94,000
Other VOCs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan Metals ($\mu\text{g}/\text{kg}$)	CAS#																	
Cadmium	7440439	350	NA	NA	230	1,100	3,100	990	490	310	370	6,000	550,000	1,700,000	NLV	4,100,000	NLV	NLV
Chromium (total)	18540229	9,300	NA	NA	13,000	19,000	27,000	12,000	24,000	9,300	8,800	30,000	2,500,000	260,000	NLV	17,000,000	240,000	NLV
Lead	7439921	1,600,000	NA	NA	84,000	350,000	790,000	290,000	780,000	130,000	120,000	700,000	400,000	100,000,000	NLV	900,000	NLV	NLV
PNAs and PCBs ($\mu\text{g}/\text{kg}$)	CAS#																	
Phenanthrene	85018	<330	<330	<1,700*	490	5,500	13,000	340	4,900	2,700	420,000	56,000	1,600,000	9,300	1,800,000	8,000,000	11,000	3,300,000
Acenaphthene	83329	<330	<330	<1,700*	<330	<330	1,000	<330	<330	<330	34,000	300,000	41,000,000	81,000,000	190,000,000	200,000,000	97,000,000	350,000,000
Acenaphthylene	208968	<330	<330	<1,700*	<330	<330	<330	<330	<330	<330	21,000	5,900	1,600,000	2,200,000	1,600,000	8,000,000	2,700,000	3,000,000
Anthracene	120127	<330	<330	<1,700*	<330	1,300	3,400	<330	1,300	<1,700*	120,000	41,000	230,000,000	1,400,000,000	1,000,000,000	1,000,000,000	1,600,000,000	1,000,000,000
Naphthalene	91203	<330	<330	<1,700*	380	<330	1,100	<330	<330	<330	27,000	35,000	16,000,000	300,000	250,000	80,000,000	350,000	470,000
2-Methylnaphthalene	91576	<330	<330	<1,700*	720	<330	510	<330	<330	<330	31,000	57,000	8,100,000	ID	ID	40,000,000	ID	ID
Fluoranthene	206440	<330	<330	<1,700*	1,000	8,100	14,000	680	8,900	4,600	320,000	730,000	46,000,000	740,000,000	1,000,000,000	180,000,000	890,000,000	1,000,000,000
Fluorene	86737	<330	<330	<1,700*	<330	350	960	<330	420	<330	78,000	390,000	27,000,000	130,000,000	580,000,000	130,000,000	150,000,000	1,000,000,000
Pyrene	206440	<330	<330	<1,700*	900	6,100	12,000	610	7,900	4,100	240,000	480,000	29,000,000	650,000,000	1,000,000,000	110,000,000	780,000,000	1,000,000,000
Benzo(a)anthracene	56553	<330	<330	<1,700*	640	3,200	6,000	360	3,700	2,400	120,000	NLL	20,000	NLV	NLV	100,000	NLV	NLV
Chrysene	218019	<330	<330	<1,700*	770	3,400	5,300	410	4,200	2,700	120,000	NLL	2,000,000	ID	ID	10,000,000	ID	ID
Benzo(b)fluoranthene	205992	<330	<330	<1,700*	710	2,900	4,500	350	3,500	2,200	69,000	NLL	20,000	NLV	NLV	100,000	NLV	NLV
Benzo(k)fluoranthene	207089	<330	<330	<1,700*	580	1,800	3,900	<330	3,000	1,700	81,000	NLL	200,000	NLV	NLV	1,000,000	NLV	NLV
Benzo(a)pyrene	50328	<330	<330	<1,700*	700	2,900	5,300	<330	4,300	2,500	96,000	NLL	2,000	1,500,000	NLV	10,000	NLV	NLV
Dibenzo(a,h)anthracene	53703	<330	<330	<1,700*	<330	<330	<1,700*	<330	<1,700*	<1,700*	<33,000*	NLL	2,000	NLV	NLV	10,000	NLV	NLV
Indeno(1,2,3-cd)pyrene	193395	<330	<330	<1,700*	530	1,600	3,400	<330	2,700	<1,700*	51,000	NLL	20,000	NLV	NLV	100,000	NLV	NLV
Benzo(g,h,i)perylene	191242	<330	<330	<1,700*	510	1,500	3,300	<330	2,700	<1,700*	45,000	NLL	2,500,000	800,000,000	NLV	9,100,000	NLV	NLV
Other PNAs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note:

- ($\mu\text{g}/\text{kg}$) - Micrograms per kilogram
- "<" - Less than the laboratory method detection limit
- NA - Not analyzed
- ND - Not detected above laboratory method detection limits
- NLV - Not likely to volatilize
- ID - Inadequate data to develop criteria
- IP - Development in process
- NLL - Not likely to leach
- NA - Not available
- α - MDEQ Operational Memorandum #18: Part 201 Generic Cleanup Criteria and Screening Levels, June 7, 2000
- β - MDEQ Operational Memorandum #4: Part 213 Tier I Risk-Based Screening Levels (RBSLs), June 2000
- bold** - concentration exceeds MDEQ Criteria