

Table 1
Summary of Soil Analytical Results '89-'95 4
 IB Property, Bay City, Mi
 AKT Peerless Project Number 3522F-2-20

Sample Identification and Date		IB-SB-27 (4-6)	IB-SB-28 (10-12)	IB-SB-28 (12-14)	IB-SB-28 (14-16)	IB-SB-29 (4-6)	IB-SB-29 (12-14)	IB-SB-30 (12-14)	IB-SB-31 (10-12)	IB-SB-32 (8-10)	IB-SB-33 (6-8)	IB-SB-33 (12-14)	IB-SB-34 (4-6)	IB-SB-35 (6-8)	IB-SB-36 (10-12)	IB-SB-38 (2-8)	MDEQ Generic Residential Drinking Water Protection Criteria α	MDEQ Generic Residential Groundwater Surface Water Interface Protection Criteria	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
Gasoline Parameters ($\mu\text{g}/\text{kg}$)	CAS#																				
Benzene	71432	ND	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	100	4,000	180,000	13,000	1,600
Ethylbenzene	100414	ND	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	1,500	360	140,000	9,500,000	140,000
Methylene chloride	75092	ND	200	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	100	19,000	1,300,000	210,000	45,000
Xylenes	1330207	ND	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	5,600	700	150,000	46,000,000	150,000
Other VOCs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan Metals ($\mu\text{g}/\text{kg}$)	CAS#																				
Arsenic	7440382	ND	NA	11,000	ND	19,000	16,000	ND	24000	8,000	ND	11,000	11,000	ND	ND	NA	23,000	70,000	7,600	NLV	NLV
Barium	7440393	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	140,000	87,000	ND	ND	NA	1,300,000	1,900	37,000,000	NLV	NLV
Cadmium	7440439	3000	NA	1400	1600	11,000	5,300	1400	1700	1800	2600	9700	9800	2000	4900	NA	6,000	G	550,000	NLV	NLV
Chromium (total)	18540229	ND	NA	ND	ND	36,000	ND	ND	ND	ND	ND	33,000	ND	ND	ND	NA	30,000	G	2,500,000	NLV	NLV
Copper	7440508	ND	NA	ND	ND	65,000	45,000	ND	ND	ND	ND	93,000	110,000	ND	74,000	NA	5,800,000	G	20,000,000	NLV	NLV
Lead	7439921	ND	NA	39,000	ND	31,000	29,000	ND	ND	ND	ND	180,000	110,000	ND	42,000	NA	700,000	G	400,000	NLV	NLV
Nickel	7440020	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	100,000	G	40,000,000	NLV	NLV
Mercury (inorganic)	7439976	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	300	ND	ND	300	NA	1,700	100	160,000	NLV	NLV
Selenium	7782492	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	1,800	ND	ND	ND	NA	4,000	400	2,600,000	NLV	NLV
Silver	7440224	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	4,500	500	2,500,000	NLV	NLV
Zinc	7440666	ND	NA	64,000	ND	95,000	53,000	ND	ND	ND	130,000	1,900,000	150,000	ND	120,000	NA	2,400,000	G	170,000,000	NLV	NLV
PNAs and PCBs ($\mu\text{g}/\text{kg}$)	CAS#																				
Phenanthrene	85018	ND	NA	9000	ND	23,000	800	ND	ND	ND	ND	14,000	24,000	ND	ND	800	56,000	2,300	1,600,000	9,300	1,800,000
Acenaphthylene	208968	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	800	ND	ND	ND	ND	5,900	ID	1,600,000	2,200,000	1,600,000
Naphthalene	91203	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35,000	870	16,000,000	300,000	250,000
Fluoranthene	206440	ND	NA	ND	ND	34,000	ND	ND	ND	ND	ND	ND	24,000	ND	ND	ND	730,000	5,500	46,000,000	740,000,000	1,000,000,000
Pyrene	206440	ND	NA	ND	ND	26,000	ND	ND	ND	ND	ND	17,000	20,000	ND	ND	ND	480,000	ID	29,000,000	650,000,000	1,000,000,000
Benzo(a)pyrene	50328	ND	NA	ND	ND	10,000	ND	ND	ND	ND	ND	8,400	9,000	ND	ND	ND	NLL	NLL	2,000	1,500,000	NLV
Dibenzo(a,h)anthracene	53703	ND	NA	ND	ND	2,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NLL	NLL	2,000	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