TABLE 1 - SUMMARY OF DETECTED COMPOUNDS - DRAFT
FORMER REVERE COPPER AND BRASS
DETROIT, WAYNE COUNTY, MICHIGAN

							EPA RML (THQ 3.0)		EGLE Cleanup Criteria Requirements for Response Activity - Groundwater	EGLE Cleanup Criteria Requirements for Response Activity - Soil	
Sample ID	**Analysis**	**Analytical method**	**CAS No.**	**Analyte**	**Result**	**Units**	**Industrial Soil (µg/kg)**	**MCL (µg/L)**	**Nonresidential Drinking Water (µg/L)**	**Nonresidential Drinking water (µg/Kg)**	**Direct Contact (µg/Kg)**
RCB-Water-01	Metals	SW6020A	7440-38-2	Arsenic	0.65	µg/L	n/a	10	10 (A)	n/a	n/a
		SW6020A	7440-39-3	Barium	27	µg/L	n/a	2000	2,000 (A)	n/a	n/a
		SW6020A	7440-47-3	Chromium	0.88	µg/L	n/a	100	100 (A)	n/a	n/a
		SW6020A	7440-50-8	Copper (B)	6.6	µg/L	n/a	1300	1,000 (E)	n/a	n/a
		SW6020A	7782-49-2	Selenium (B)	0.64	µg/L	n/a	50	50 (A)	n/a	n/a
		SW6020A	7440-61-1	Uranium	16	µg/L	n/a	30	n/a	n/a	n/a
		SW6020A	7440-66-6	Zinc (B)	42	µg/L	n/a	n/a	5,000 (E)	n/a	n/a
	Cyanide, Total	SW9012B	57-12-5	Cyanide, Total (P,R)	3.7	µg/L	n/a	200	200 (A)	n/a	n/a
RCB-Water-02	Metals	SW6020A	7440-38-2	Arsenic	0.67	µg/L	n/a	n/a	10 (A)	n/a	n/a
		SW6020A	7440-39-3	Barium	26	µg/L	n/a	n/a	2,000 (A)	n/a	n/a
		SW6020A	7440-50-8	Copper (B)	8.1	µg/L	n/a	n/a	1,000 (E)	n/a	n/a
		SW6020A	7782-49-2	Selenium (B)	0.82	µg/L	n/a	50	50 (A)	n/a	n/a
		SW6020A	7440-61-1	Uranium	16	µg/L	n/a	30	n/a	n/a	n/a
		SW6020A	7440-66-6	Zinc (B)	50	µg/L	n/a	n/a	5,000 (E)	n/a	n/a
	Cyanide, Total	SW9012B	57-12-5	Cyanide, Total (P,R)	4.1	µg/L	n/a	n/a	200 (A)	n/a	n/a
RCB-Soil-01	Mercury	SW7471B	7439-97-6	Mercury (B,Z)	63	µg/Kg	140,000	n/a	n/a	1,700	580,000
	Metals	SW6020A	7440-38-2	Arsenic	**20,000**	µg/Kg	300,000	n/a	n/a	4,600	37,000
		SW6020A	7440-39-3	Barium (B)	310,000	µg/Kg	650,000,000	n/a	n/a	1,300,000	130,000,000
		SW6020A	7440-41-7	Beryllium	660	µg/Kg	6,900,000	n/a	n/a	51,000	1,600,000
		SW6020A	7440-43-9	Cadmium (B)	**42,000**	µg/Kg	2,900,000	n/a	n/a	6,000	2,100,000
		SW6020A	7440-47-3	Chromium	**95,000**	µg/Kg	n/a	n/a	n/a	30,000	9,200,000
		SW6020A	7440-50-8	Copper (B)	**11,000,000**	µg/Kg	140,000,000	n/a	n/a	5,800,000	73,000,000
		SW6020A	7439-92-1	Lead (B)	***1,400,000***	µg/Kg	800,000	n/a	n/a	700,000	900,000 (DD)
		SW6020A	7782-49-2	Selenium (B)	1,000	µg/Kg	18,000,000	n/a	n/a	4,000	9,600,000
		SW6020A	7440-22-4	Silver (B)	1,700	µg/Kg	18,000,000	n/a	n/a	13,000	9,000,000
		SW6020A	7440-61-1	Uranium	1,000	µg/Kg	700,000	n/a	n/a	n/a	n/a
		SW6020A	7440-66-6	Zinc (B)	**9,000,000**	µg/Kg	1,100,000,000	n/a	n/a	5,000,000	630,000,000
	PAHs	SW846 8270D	120-12-7	Anthracene	84	µg/Kg	680,000,000	n/a	n/a	41,000	730,000,000
		SW846 8270D	56-55-3	Benzo(a)anthracene (Q)	100	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	50-32-8	Benzo(a)pyrene (Q)	120	µg/Kg	210,000	n/a	n/a	NLL	8,000
		SW846 8270D	205-99-2	Benzo(b)fluoranthene (Q)	130	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	191-24-2	Benzo(g,h,i)perylene (Q)	150	µg/Kg	n/a	n/a	n/a	NLL	7,000,000
		SW846 8270D	207-08-9	Benzo(k)fluoranthene (Q)	41	µg/Kg	21,000,000	n/a	n/a	NLL	800,000
		SW846 8270D	218-01-9	Chrysene (Q)	170	µg/Kg	210,000,000	n/a	n/a	NLL	8,000,000
		SW846 8270D	206-44-0	Fluoranthene	370	µg/Kg	90,000,000	n/a	n/a	730,000	130,000,000
		SW846 8270D	193-39-5	Indeno(1,2,3n/acd)pyrene (Q)	52	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	85-01-8	Phenanthrene	340	µg/Kg	n/a	n/a	n/a	160,000	5,200,000
		SW846 8270D	129-00-0	Pyrene	190	µg/Kg	68,000,000	n/a	n/a	480,000	84,000,000
	Cyanide, Total	SW9012B	57-12-5	Cyanide, Total (P,R)	400	µg/Kg	440,000	n/a	n/a	4,000	250,000

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DETROIT, WAYNE COUNTY, MICHIGAN

							EPA RML (THQ 3.0)		EGLE Cleanup Criteria Requirements for Response Activity - Groundwater	EGLE Cleanup Criteria Requirements for Response Activity - Soil	
Sample ID	**Analysis**	**Analytical method**	**CAS No.**	**Analyte**	**Result**	**Units**	**Industrial Soil (µg/kg)**	**MCL (µg/L)**	**Nonresidential Drinking Water (µg/L)**	**Nonresidential Drinking water (µg/Kg)**	**Direct Contact (µg/Kg)**
RCB-Soil-02	PCBs	SW8082	11097-69-1	Aroclor 1254	97	µg/Kg	44,000	n/a	n/a	n/a	n/a
		SW8082	PCBs, Total	PCBs, Total (J,T)	97	µg/Kg	n/a	n/a	n/a	NLL	(T)
	Mercury	SW7471B	7439-97-6	Mercury (B,Z)	20	µg/Kg	140,000	n/a	n/a	1,700	580,000
	Metals	SW6020A	7440-38-2	Arsenic	3,600	µg/Kg	300,000	n/a	n/a	4,600	37,000
		SW6020A	7440-39-3	Barium (B)	130,000	µg/Kg	650,000,000	n/a	n/a	1,300,000	130,000,000
		SW6020A	7440-41-7	Beryllium	1,800	µg/Kg	6,900,000	n/a	n/a	51,000	1,600,000
		SW6020A	7440-43-9	Cadmium (B)	**7,500**	µg/Kg	2,900,000	n/a	n/a	6,000	2,100,000
		SW6020A	7440-47-3	Chromium	**180,000**	µg/Kg	n/a	n/a	n/a	30,000	9,200,000
		SW6020A	7440-50-8	Copper (B)	250,000	µg/Kg	140,000,000	n/a	n/a	5,800,000	73,000,000
		SW6020A	7439-92-1	Lead (B)	34,000	µg/Kg	800,000	n/a	n/a	700,000	900,000 (DD)
		SW6020A	7782-49-2	Selenium (B)	700	µg/Kg	18,000,000	n/a	n/a	4,000	9,600,000
		SW6020A	7440-22-4	Silver (B)	63	µg/Kg	18,000,000	n/a	n/a	13,000	9,000,000
		SW6020A	7440-61-1	Uranium	1,300	µg/Kg	700,000	n/a	n/a	n/a	n/a
		SW6020A	7440-66-6	Zinc (B)	390,000	µg/Kg	1,100,000,000	n/a	n/a	5,000,000	630,000,000
	PAHs	SW846 8270D	208-96-8	Acenaphthylene	20	µg/Kg	n/a	n/a	n/a	17,000	5,200,000
		SW846 8270D	120-12-7	Anthracene	52	µg/Kg	680,000,000	n/a	n/a	41,000	730,000,000
		SW846 8270D	56-55-3	Benzo(a)anthracene (Q)	250	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	50-32-8	Benzo(a)pyrene (Q)	410	µg/Kg	210,000	n/a	n/a	NLL	8,000
		SW846 8270D	205-99-2	Benzo(b)fluoranthene (Q)	330	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	191-24-2	Benzo(g,h,i)perylene (Q)	240	µg/Kg	n/a	n/a	n/a	NLL	7,000,000
		SW846 8270D	207-08-9	Benzo(k)fluoranthene (Q)	290	µg/Kg	21,000,000	n/a	n/a	NLL	800,000
		SW846 8270D	218-01-9	Chrysene (Q)	270	µg/Kg	210,000,000	n/a	n/a	NLL	8,000,000
		SW846 8270D	206-44-0	Fluoranthene	150	µg/Kg	90,000,000	n/a	n/a	730,000	130,000,000
		SW846 8270D	86-73-7	Fluorene	11	µg/Kg	90,000,000	n/a	n/a	890,000	87,000,000
		SW846 8270D	193-39-5	Indeno(1,2,3n/acd)pyrene (Q)	94	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	85-01-8	Phenanthrene	72	µg/Kg	n/a	n/a	n/a	160,000	5,200,000
		SW846 8270D	129-00-0	Pyrene	79	µg/Kg	68,000,000	n/a	n/a	480,000	84,000,000
	Cyanide, Total	SW9012B	57-12-5	Cyanide, Total (P,R)	450	µg/Kg	440,000	n/a	n/a	4,000	250,000
RCB-Soil-03	PCBs	SW8082	11097-69-1	Aroclor 1254	280	µg/Kg	44,000	n/a	n/a	n/a	n/a
		SW8082	PCBs, Total	PCBs, Total (J,T)	280	µg/Kg	n/a	n/a	n/a	NLL	(T)
	Metals	SW7471B	7439-97-6	Mercury (B,Z)	140	µg/Kg	140,000	n/a	n/a	1,700	580,000
		SW6020A	7440-38-2	Arsenic	**7,900**	µg/Kg	300,000	n/a	n/a	4,600	37,000
		SW6020A	7440-39-3	Barium (B)	320,000	µg/Kg	650,000,000	n/a	n/a	1,300,000	130,000,000
		SW6020A	7440-41-7	Beryllium	5,000	µg/Kg	6,900,000	n/a	n/a	51,000	1,600,000
		SW6020A	7440-43-9	Cadmium (B)	**9,600**	µg/Kg	2,900,000	n/a	n/a	6,000	2,100,000
		SW6020A	7440-47-3	Chromium	**94,000**	µg/Kg	n/a	n/a	n/a	30,000	9,200,000
		SW6020A	7440-50-8	Copper (B)	1,300,000	µg/Kg	140,000,000	n/a	n/a	5,800,000	73,000,000
		SW6020A	7439-92-1	Lead (B)	190,000	µg/Kg	800,000	n/a	n/a	700,000	900,000 (DD)
		SW6020A	7782-49-2	Selenium (B)	2,000	µg/Kg	18,000,000	n/a	n/a	4,000	9,600,000
		SW6020A	7440-22-4	Silver (B)	1,700	µg/Kg	18,000,000	n/a	n/a	13,000	9,000,000
		SW6020A	7440-61-1	Uranium	2,800	µg/Kg	700,000	n/a	n/a	n/a	n/a
		SW6020A	7440-66-6	Zinc (B)	2,800,000	µg/Kg	1,100,000,000	n/a	n/a	5,000,000	630,000,000
	PAHs	SW846 8270D	90-12-0	1-Methylnaphthalene	34	µg/Kg	7,300,000	n/a	n/a	n/a	n/a
		SW846 8270D	91-57-6	2-Methylnaphthalene	38	µg/Kg	9,000,000	n/a	n/a	170,000	26,000,000
		SW846 8270D	50-32-8	Benzo(a)pyrene (Q)	20	µg/Kg	210,000	n/a	n/a	NLL	8,000
		SW846 8270D	205-99-2	Benzo(b)fluoranthene (Q)	65	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	207-08-9	Benzo(k)fluoranthene (Q)	16	µg/Kg	21,000,000	n/a	n/a	NLL	800,000
		SW846 8270D	218-01-9	Chrysene (Q)	68	µg/Kg	210,000,000	n/a	n/a	NLL	8,000,000
		SW846 8270D	206-44-0	Fluoranthene	85	µg/Kg	90,000,000	n/a	n/a	730,000	130,000,000
		SW846 8270D	85-01-8	Phenanthrene	88	µg/Kg	n/a	n/a	n/a	160,000	5,200,000
		SW846 8270D	129-00-0	Pyrene	50	µg/Kg	68,000,000	n/a	n/a	480,000	84,000,000
	Cyanide, Total	SW9012B	57-12-5	Cyanide, Total (P,R)	980	µg/Kg	440,000	n/a	n/a	4,000	250,000

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Sample ID	**Analysis**	**Analytical method**	**CAS No.**	**Analyte**	**Result**	**Units**	**Industrial Soil (µg/kg)**	**MCL (µg/L)**	**Nonresidential Drinking Water (µg/L)**	**Nonresidential Drinking water (µg/Kg)**	**Direct Contact (µg/Kg)**
RCB-Soil-04	PCBs	SW8082	11097-69-1	Aroclor 1254	410	µg/Kg	44,000	n/a	n/a	n/a	n/a
		SW8082	PCBs, Total	PCBs, Total (J,T)	410	µg/Kg	n/a	n/a	n/a	NLL	(T)
	Mercury	SW7471B	7439-97-6	Mercury (B,Z)	180	µg/Kg	140,000	n/a	n/a	1,700	580,000
	Metals	SW6020A	7440-38-2	Arsenic	**7,200**	µg/Kg	300,000	n/a	n/a	4,600	37,000
		SW6020A	7440-39-3	Barium (B)	150,000	µg/Kg	650,000,000	n/a	n/a	1,300,000	130,000,000
		SW6020A	7440-41-7	Beryllium	570	µg/Kg	6,900,000	n/a	n/a	51,000	1,600,000
		SW6020A	7440-43-9	Cadmium (B)	**12,000**	µg/Kg	2,900,000	n/a	n/a	6,000	2,100,000
		SW6020A	7440-47-3	Chromium	**25,000**	µg/Kg	n/a	n/a	n/a	30,000	9,200,000
		SW6020A	7440-50-8	Copper (B)	**14,000,000**	µg/Kg	140,000,000	n/a	n/a	5,800,000	73,000,000
		SW6020A	7439-92-1	Lead (B)	330,000	µg/Kg	800,000	n/a	n/a	700,000	900,000 (DD)
		SW6020A	7782-49-2	Selenium (B)	1,300	µg/Kg	18,000,000	n/a	n/a	4,000	9,600,000
		SW6020A	7440-22-4	Silver (B)	3,000	µg/Kg	18,000,000	n/a	n/a	13,000	9,000,000
		SW6020A	7440-61-1	Uranium	150,000	µg/Kg	700,000	n/a	n/a	n/a	n/a
		SW6020A	7440-66-6	Zinc (B)	3,400,000	µg/Kg	1,100,000,000	n/a	n/a	5,000,000	630,000,000
	PAHs	SW846 8270D	90-12-0	1-Methylnaphthalene	18	µg/Kg	7,300,000	n/a	n/a	n/a	n/a
		SW846 8270D	91-57-6	2-Methylnaphthalene	17	µg/Kg	9,000,000	n/a	n/a	170,000	26,000,000
		SW846 8270D	83-32-9	Acenaphthene	42	µg/Kg	140,000,000	n/a	n/a	880,000	130,000,000
		SW846 8270D	208-96-8	Acenaphthylene	39	µg/Kg	n/a	n/a	n/a	17,000	5,200,000
		SW846 8270D	120-12-7	Anthracene	370	µg/Kg	680,000,000	n/a	n/a	41,000	730,000,000
		SW846 8270D	56-55-3	Benzo(a)anthracene (Q)	1,200	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	50-32-8	Benzo(a)pyrene (Q)	920	µg/Kg	210,000	n/a	n/a	NLL	8,000
		SW846 8270D	205-99-2	Benzo(b)fluoranthene (Q)	1,900	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	191-24-2	Benzo(g,h,i)perylene (Q)	460	µg/Kg	n/a	n/a	n/a	NLL	7,000,000
		SW846 8270D	207-08-9	Benzo(k)fluoranthene (Q)	1,600	µg/Kg	21,000,000	n/a	n/a	NLL	800,000
		SW846 8270D	218-01-9	Chrysene (Q)	1,100	µg/Kg	210,000,000	n/a	n/a	NLL	8,000,000
		SW846 8270D	53-70-3	Dibenzo(a,h)anthracene (Q)	52	µg/Kg	210,000	n/a	n/a	NLL	8,000
		SW846 8270D	206-44-0	Fluoranthene	3,100	µg/Kg	90,000,000	n/a	n/a	730,000	130,000,000
		SW846 8270D	86-73-7	Fluorene	35	µg/Kg	90,000,000	n/a	n/a	890,000	87,000,000
		SW846 8270D	193-39-5	Indeno(1,2,3-cd)pyrene (Q)	480	µg/Kg	2,100,000	n/a	n/a	NLL	80,000
		SW846 8270D	85-01-8	Phenanthrene	1,200	µg/Kg	n/a	n/a	n/a	160,000	5,200,000
		SW846 8270D	129-00-0	Pyrene	1,200	µg/Kg	68,000,000	n/a	n/a	480,000	84,000,000
	Cyanide, Total	SW9012B	57-12-5	Cyanide, Total (P,R)	450	µg/Kg	440,000	n/a	n/a	4,000	250,000

notes:

*** Analytical data has not been validated**

(A) = Criterion is the state of Michigan drinking water standard established pursuant toSection 5 of 1976 PA 399, MCL 325.1005.

(B) = Background, as defined in R 299.1(b), may be substituted if higher than thecalculated cleanup criterion. Background levels may be less than criteria for someinorganic compounds.

(DD) = Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor

(E) = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) ofthe Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

EGLE = Michigan Department of Environment, Great Lakes, and Energy

EPA RML = United States Environmental Protection Agency Regional Removal Management Levels for Chemicals

(J) = Hazardous substance may be present in several isomer forms. Isomern/a specific concentrations shall be added together for comparison to criteria

MCL = Maximum Contaminant Level

n/a = not applicable

NLL = hazardous substance is not likely to leach under most soil conditions

PAHs = Polycyclic Aromatic Hydrocarbons

PCBs = Polychlorinated biphenyls

(Q) = Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed usingrelative potential potencies to benzo(a)pyrene.

(R) = Hazardous substance may exhibit the characteristic of reactivity as defined in 40C.F.R. §261.23 (revised as of July 1, 2001).

(T) = Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, SubpartD and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards.

THQ = target hazard quotient

µg/Kg = micrograms per kilogram

µg/L = micrograms per liter

Bold Box - Result above EPA RML for industrial soil

Result above EPA MCL

Result above EGLE - Non residential drinking water

Italics - Result above EGLE - Direct Contact