

EPA Sample ID	03030101	03030102	03030104	03030105	03030107	03030108	03030110	03030111	03030112	03030114	03030115	MTCA Method A Cleanup Levels ^a	EPA Region 9 Industrial Soil PRGs
Station ID													
Sample Depth (feet bgs)													
Description													
TAL Metals													
Silver	0.500 U	0.500 U	0.500 U	0.588 U	0.500 U	0.500 U	NA	NA	NA	0.178 U	0.152 U	--	5,100
Aluminum	9840	11400	9880	10500	13300	17100	NA	NA	NA	19500	16300	--	100,000
Arsenic	2.27	2.26	2.29	2.18	4.42	2.89	NA	NA	NA	0.178 U	0.152 U	20	1.6
Barium	35.9	36.2	38.5	37.1	64.2	42.9	NA	NA	NA	6.40	13.0	--	67,000
Beryllium	0.500 U	0.500 U	0.500 U	0.588 U	0.500 U	0.500 U	NA	NA	NA	0.178 U	0.152 U	--	1,900
Calcium	4200	4740	4160	4420	5130	5730	NA	NA	NA	179000	192000	--	--
Cadmium	0.909	0.500 U	0.500 U	7.16	0.500 U	0.500 U	NA	NA	NA	0.178 U	0.152 U	2	450
Cobalt	4.38	4.14	4.44	4.15	6.00	4.63	NA	NA	NA	0.178 U	0.152 U	--	1,900
Chromium	11.0	9.35	10.1	10.3	14.9	10.6	NA	NA	NA	17.9	50.8	19 ^b	64 ^c
Copper	14.9	14.6	14.9	13.6	28.4	16.2	NA	NA	NA	1.89	4.72	--	41,000
Iron	12800	14200	12600	13100	15600	18800	NA	NA	NA	124000	84500	--	100,000
Potassium	617	749	614	666	607	718	NA	NA	NA	132	71.5	--	--
Magnesium	2620	2850	2500	2660	3370	4020	NA	NA	NA	35100	32300	--	--
Manganese	172	146	153	146	217	174	NA	NA	NA	243	640	--	19,000
Sodium	536	662	577	640	610	708	NA	NA	NA	672	500	--	--
Nickel	9.25	8.11	9.04	8.51	13.2	9.48	NA	NA	NA	0.533	1.38	--	20,000
Lead	2.00	2.00	2.08	1.86	9.25	3.07	NA	NA	NA	1.50	2.65	1,000	750
Selenium	0.500 U	0.500 U	0.500 U	0.588 U	0.500 U	0.500 U	NA	NA	NA	0.178 U	0.152 U	--	5,100
Thallium	0.500 U	0.500 U	0.500 U	0.588 U	0.500 U	0.500 U	NA	NA	NA	0.178 U	0.152 U	--	67
Vanadium	32.8	29.8	32.5	32.6	40.0	34.1	NA	NA	NA	3.31	7.88	--	7,200
Zinc	22.0	20.9	23.1	22.0	34.9	25.6	NA	NA	NA	5.65	14.4	--	100,000
NWTPH-Gx													
Gasoline Range Hydrocarbons	NA	NA	NA	NA	NA	NA	22.2	561	5.00 U	NA	NA	30	--
Volatile Organic Compounds													
1,2,4-Trimethylbenzene	382	471	0.110	174	0.100 U	0.100 U	0.100 U	22.8	0.100 U	NA	NA	--	170
1,3,5-Trimethylbenzene	102	130	0.122	43.0	0.100 U	0.100 U	0.100 U	6.46	0.100 U	NA	NA	--	70
Benzene	68.1	63.7	0.100 U	13.1	0.100 U	0.100 U	0.100 U	0.169	0.100 U	NA	NA	0.03	1.3
Ethylbenzene	222	240	0.100 U	93.7	0.100 U	0.100 U	0.100 U	5.12	0.100 U	NA	NA	6	20
Isopropylbenzene	14.4	14.1	0.100 U	6.20	0.100 U	0.100 U	0.100 U	0.784	0.100 U	NA	NA	--	--
Naphthalene	30.9	311	0.100 U	15.6	0.100 U	0.100 U	0.100 U	5.03	0.100 U	NA	NA	5	190
m,p-Xylene	829	918	0.260	340	0.200 U	0.200 U	0.200 U	22.9	0.200 U	NA	NA	9	420
n-Butylbenzene	27.8	79.4	0.100 U	12.3	0.100 U	0.100 U	0.100 U	3.50	0.100 U	NA	NA	--	240
n-Propylbenzene	53.3	50.6	0.100 U	25.7	0.100 U	0.100 U	0.100 U	3.73	0.100 U	NA	NN	--	240
o-Xylene	291	35.9	0.363	132	0.100 U	0.100 U	0.100 U	9.94	0.100 U	NA	NA	9	420
p-Isopropyltoluene	8.70	4.16	0.100 U	3.86	0.100 U	0.100 U	0.100 U	0.319	0.100 U	NA	NA	--	--
sec-Butylbenzene	4.90	7.95	0.100 U	1.00	0.100 U	0.100 U	0.100 U	0.553	0.100 U	NA	NA	--	220
Tetrachloroethylene	1.00 U	0.100 U	0.100 U	1.00 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	NA	NA	0.05	3.4
Toluene	769	755	0.319	254	0.100 U	0.100 U	0.100 U	6.21	0.100 U	NA	NA	7	520
Trichlorofluoromethane	1.00 U	0.100 U	0.100 U	1.00 U	0.100 U	0.100 U	0.100 U	0.307	0.100 U	NA	NA	--	2,000
Semivolatile Organic Compounds													
2-Methylnaphthalene	38.9	67.1	0.330 U	0.891	0.330 U	0.330 U	NA	NA	NA	NA	NA	--	--
3 & 4-Methylphenol	0.330 U	16.5 U	0.330 U	0.330 U	0.330 U	0.330 U	NA	NA	NA	NA	NA	--	3,100
Bis(2-ethylhexyl)phthalate	0.441	R	0.330 U	0.463	0.330 U	0.330 U	NA	NA	NA	NA	NA	--	120
Naphthalene	29.6	67.2	0.330 U	0.466	0.330 U	0.330 U	NA	NA	NA	NA	NA	5	190
Phenanthrene	0.396	R	0.330 U	0.330 U	0.330 U	0.330 U	NA	NA	NA	NA	NA	--	--
Phenol	0.606	R	0.330 U	0.330 U	0.330 U	0.330 U	NA	NA	NA	NA	NA	--	100,000
Organochlorine Pesticides													
4,4'-DDT	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00289	0.00200 U	NA	NA	NA	NA	NA	4	7
Note:													
All units are mg/kg													
Bold type indicates sample concentration is greater than the detection limit.													
Underlined, highlighted cells indicate results greater than the listed MTCA Method A cleanup level or EPA Region 9 PRGs.													
Reporting limits for benzene and tetrachloroethylene were greater than Method A cleanup level.													
a = Method A levels from Table 745-1, cleanup levels for industrial properties.													
b = Value is for hexavalent chromium; Cleanup level for trivalent chromium = 2,000 mg/kg.													
c = Value is for hexavalent chromium; PRG for trivalent chromium = 100,000 mg/kg.													
Key:													
bgs													
J													
MTCA													
mg/kg													
NA													
PRGs													
R													
TAL													
U													
VOCs													
= below ground surface													
= The analyte was positively identified, but the result is estimated.													
= Model Toxics Control Act													
= Milligrams per kilogram.													
= Not analyzed for.													
= Preliminary Remedial Goals.													
= The data are unusable for all purposes.													
= Target Analyte List.													
= The analyte was not detected. The associated numerical value is the sample detection/quantitation limit.													
= Volatile organic compounds.													

Table 2 – Groundwater Data

EPA Sample ID	03030103	03030106	03030109	03030116	03030117	MTCA Method A Cleanup Levels ^a	EPA Region 9 Tap Water PRGs
Station ID				Rinsate	Trip		
Sample Depth (feet bgs)							
Description							
TAL Metals							
Silver	2.08	NA	NA	1.00 U	NA	--	
Aluminum	145000	NA	NA	250 U	NA	--	36,000
Arsenic	51.9	NA	NA	1.00 U	NA	5	0.045
Barium	656 J	NA	NA	10.0 U	NA	--	2,600
Beryllium	3.97	NA	NA	1.00 U	NA	--	73
Calcium	85900	NA	NA	250 U	NA	--	--
Cadmium	1.50	NA	NA	1.00 U	NA	5	18
Cobalt	62.3	NA	NA	1.00 U	NA	--	730
Chromium	524	NA	NA	1.00 U	NA	50	110 ^b
Copper	378	NA	NA	1.00 U	NA	--	1,500
Iron	150 U	NA	NA	150 U	NA	--	11,000
Potassium	21400 J	NA	NA	2000 U	NA	--	--
Magnesium	43700	NA	NA	500 U	NA	--	--
Manganese	2280	NA	NA	10.0 U	NA	--	880
Sodium	50300	NA	NA	250 UJ	NA	--	--
Nickel	334	NA	NA	1.00 U	NA	--	730
Lead	221	NA	NA	1.00 U	NA	15	--
Selenium	3.45	NA	NA	1.00 U	NA	--	180
Thallium	1.15	NA	NA	1.00 U	NA	--	2.4
Vanadium	338	NA	NA	1.00 U	NA	--	260
Zinc	918	NA	NA	10.0 U	NA	--	11,000
NWTPH-Gx							
Gasoline Range Hydrocarbons	12,900	151,000	121	50.0 U	50.0 U	800	---
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	228	801	3.66	1.00 U	1.00 U	---	12
1,3,5-Trimethylbenzene	165 J	220	1.00 U	1.00 U	1.00 U	---	12
Benzene	1,170	19,000	5.48	1.00 U	1.00 U	5	0.34
Ethylbenzene	498	1,190	2.45	1.00 U	1.00 U	700	2.9
Isopropylbenzene	45.8	37.0	1.00 U	1.00 U	1.00 U	--	--
Naphthalene	133 J	97.4 J	1.00 U	1.00 U	1.00 U	160	6.2
m,p-Xylene	605	6,150	9.86	2.00 U	2.00 U	1,000	210
n-Butylbenzene	52.3 J	1.00 U	1.00 U	1.00 U	1.00 U	--	240
n-Propylbenzene	115	68.1 J	1.00 U	1.00 U	1.00 U	--	240
o-Xylene	901	3,150	4.45	2.00 U	2.00 U	1,000	210
p-Isopropyltoluene	6.44	8.57	1.00 U	1.00 U	1.00 U	--	6.2
sec-Butylbenzene	11.9	1.00 U	1.00 U	1.00 U	1.00 U	1,000	240
Tetrachloroethylene	1.00 U	3.36	1.00 U	1.00 U	1.00 U	5	0.66
Toluene	1800	32400	18.3	1.00 U	1.00 U	5	720
Trichlorofluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	1,300
Semivolatile Organic Compounds							
2-Methylnaphthalene	14.1 U	NA	NA	22.1	NA	--	--
3 & 4-Methylphenol	14.1 U	NA	NA	28.6	NA	--	1,800
Bis(2-ethylhexyl)phthalate	70.4 UJ	NA	NA	50.0 U	NA	--	4.8
Naphthalene	14.1 U	NA	NA	50.2	NA	160	6.2
Phenanthrene	14.1 U	NA	NA	10.0 U	NA	--	--
Phenol	14.1 U	NA	NA	79.2	NA	--	22,000
Organochlorine Pesticides							
4,4'-DDT	NA	NA	NA	0.0800 U	NA	0.3	0.2

Note:

All units are ug/L.

Bold type indicates sample concentration is greater than the detection limit.

Underlined, highlighted cell indicates results greater than the listed MTCA cleanup level or PRGs.

Detection limits were greater than cleanup levels or PRGs for benzene, arsenic, tetrachloroethylene.

a = Method A levels from Table 720-1, cleanup levels groundwater.

b = Value is for hexavalent chromium; PRG for trivalent chromium = 55,000 ug/L.

Key:

bgs

J

MTCA

mg/kg

NA

PRGs

R

TAL

U

UJ

VOCs

= below ground surface

= The analyte was positively identified, but the result is estimated.

= Model Toxics Control Act

= Milligrams per kilogram.

= Not analyzed for.

= Preliminary Remedial Goals.

= The data are unusable for all purposes.

= Target Analyte List.

= The analyte was not detected. The associated numerical value is the sample detection/quantitation limit.

= The analyte was not detected t or above the reported estimated result. The numerical value is an estimate of the quantitation limit.

= Volatile organic compounds.