

Bannsite Federal Complex - Validated Soil Vapor Results

CAS Number	Chemical	Result Unit	Industrial Air Screening Level (ug/m3) *	SVMP-01R	SVMP-02R	SVMP-03	SVMP-04R	SVMP-04R FD (Field Duplicate)	SVMP-05	SVMP-06R	SVMP-07	SVMP-08	SVMP-09
				10/10/2015	10/10/2015	9/19/2015	10/10/2015	10/10/2015	9/16/2015	10/14/2015	10/9/2015	10/9/2015	10/12/2015
630-20-6	1,1,1,2-Tetrachloroethane	ug/m3	1.7	1.4 U	1.4 U	2.7 UJ	14 U	1.4 U	1400 U	14 U	1.4 U	1.4 U	1.4 U
71-55-6	1,1,1-Trichloroethane	ug/m3	2200	1.1 U	1.1 U	2.2 UJ	14 J	19	1100 U	11 U	1.1 U	1.1 U	1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/m3	0.21	1.4 U	1.4 U	2.7 UJ	14 U	1.4 U	1400 U	14 U	1.4 U	1.4 U	1.4 U
79-00-5	1,1,2-Trichloroethane	ug/m3	0.088	1.1 U	1.1 U	2.2 UJ	11 U	1.1 U	1100 U	11 U	1.1 U	1.1 U	1.1 U
75-34-3	1,1-Dichloroethane	ug/m3	7.7	0.81 U	0.81 U	1.6 UJ	8.1 U	0.81 U	810 U	8.1 U	0.81 U	0.81 U	0.81 U
75-35-4	1,1-Dichloroethene	ug/m3	88	0.79 U	0.79 U	6.1 J	7.9 U	0.79 U	7100	27 J	0.79 U	0.79 U	0.79 U
96-18-4	1,2,3-Trichloropropane	ug/m3	0.13	1.2 U	1.2 U	3.4 J	12 U	1.2 U	1200 U	12 U	1.2 U	1.2 U	1.2 U
95-63-6	1,2,4-Trimethylbenzene	ug/m3	3.1	2.1 J	1 J	17 J	9.8 U	11	980 U	9.8 U	0.98 U	0.98 U	0.98 U
106-93-4	1,2-Dibromoethane	ug/m3	0.02	1.5 U	1.5 U	3.7 J	15 U	1.5 U	1500 U	15 U	1.5 U	1.5 U	1.5 U
95-50-1	1,2-Dichlorobenzene	ug/m3	88	1.2 U	1.2 U	5.9 J	12 U	1.2 U	1200 U	12 U	1.2 U	1.2 U	1.2 U
107-06-2	1,2-Dichloroethane	ug/m3	0.47	0.81 U	0.81 U	1.6 UJ	8.1 U	0.81 U	810 U	8.1 U	0.81 U	0.81 U	0.81 U
78-87-5	1,2-Dichloropropane	ug/m3	1.2	0.92 U	0.92 U	8.2 J	9.2 U	0.92 U	920 U	9.2 U	0.92 U	5	7.2
108-67-8	1,3,5-Trimethylbenzene	ug/m3	N/A	1.6 J	0.98 U	22 J	9.8 U	4.8 J	980 U	9.8 U	0.98 U	0.98 U	0.98 U
106-99-0	1,3-Butadiene	ug/m3	0.41	0.88 U	0.88 U	1.8 UJ	8.8 U	0.88 U	2200 J	27 J	0.88 U	0.88 U	0.88 U
541-73-1	1,3-Dichlorobenzene	ug/m3	N/A	1.2 U	1.2 U	5.4 J	12 U	1.2 U	1200 U	12 U	1.2 U	1.2 U	1.2 U
106-46-7	1,4-Dichlorobenzene	ug/m3	1.1	1.2 U	1.2 U	6.3 J	12 U	1.2 U	1200 U	12 U	1.2 U	1.2 U	1.2 U
78-93-3	2-Butanone	ug/m3	2200	17	6.1	12 J	15 U	15	1500 U	50 J	8.6	1.5 J	13
591-78-6	2-Hexanone	ug/m3	13	4 J	2 U	4.1 UJ	20 U	2 U	2000 U	20 U	2 U	2 U	2 U
107-05-1	3-Chloropropene	ug/m3	0.44	0.63 U	0.63 U	1.3 UJ	6.3 U	0.63 U	630 U	6.3 U	0.63 U	0.63 U	0.63 U
622-96-8	4-Ethyltoluene	ug/m3	N/A	0.98 U	1.4 J	10 J	9.8 U	3.8 J	980 U	9.8 U	0.98 U	0.98 U	0.98 U
108-10-1	4-Methyl-2-pentanone	ug/m3	1300	2 U	2 U	4.1 UJ	20 U	3.3 J	2000 U	36 J	2 U	2 U	2 U
67-64-1	Acetone	ug/m3	14000	81	40	48 J	38 J	83	1200 U	210	25	7.4	30
71-43-2	Benzene	ug/m3	1.6	1.2 J	0.64 U	64 J	6.4 U	1.9 J	640 U	860	1.5 J	0.64 U	0.9 J
108-86-1	Bromobenzene	ug/m3	26	1.3 U	1.3 U	2.6 UJ	13 U	1.3 U	1300 U	13 U	1.3 U	1.3 U	1.3 U
75-27-4	Bromodichloromethane	ug/m3	0.33	1.3 U	1.3 U	2.7 UJ	13 U	1.3 U	1300 U	13 U	1.3 U	1.3 U	1.3 U
75-25-2	Bromoform	ug/m3	11	2.1 U	2.1 U	4.8 J	21 U	2.1 U	2100 U	21 U	2.1 U	2.1 U	2.1 U
74-83-9	Bromomethane	ug/m3	2.2	0.78 U	0.78 U	1.6 UJ	7.8 U	0.78 U	780 U	7.8 U	0.78 U	0.78 U	0.78 U
75-15-0	Carbon Disulfide	ug/m3	310	1.6 U	1.6 U	15 J	16 U	1.6 U	1600 U	1200	1.6 J	1.6 U	1.8 J
56-23-5	Carbon Tetrachloride	ug/m3	2	1.3 U	1.3 U	2.5 UJ	13 U	1.3 U	1300 U	13 U	1.3 U	1.3 U	1.3 U
108-90-7	Chlorobenzene	ug/m3	22	0.92 U	0.92 U	1.9 J	9.2 U	0.92 U	920 U	9.2 U	0.92 U	0.92 U	0.92 U
75-45-6	Chlorodifluoromethane	ug/m3	22000	0.71 U	0.71 U	1.4 UJ	7.1 U	3.4 J	710 U	14 J	0.71 U	1.9 J	0.71 U
75-00-3	Chloroethane	ug/m3	4400	0.53 U	0.53 U	1.1 UJ	5.3 U	0.53 U	530 U	5.3 U	0.53 U	0.53 U	0.53 U
67-66-3	Chloroform	ug/m3	0.53	3.1 J	0.98 U	2 UJ	9.8 U	1.7 J	980 U	24 J	0.98 U	2.5 J	1.1 J
74-87-3	Chloromethane	ug/m3	39	0.41 U	0.41 U	0.83 UJ	4.1 U	0.41 U	410 U	4.1 U	0.41 U	0.41 U	0.41 U
156-59-2	cis-1,2-Dichloroethene	ug/m3	N/A	0.79 U	0.79 U	520 J	7.9 U	0.79 U	1300000	3200	22	0.79 U	0.79 U
10061-01-5	cis-1,3-Dichloropropene	ug/m3	N/A	0.91 U	0.91 U	1.8 UJ	9.1 U	0.91 U	910 U	9.1 U	0.91 U	0.91 U	0.91 U
98-82-8	Cumene	ug/m3	180	1.1 J	2.9 J	4.9 J	9.8 U	5.6	980 U	27 J	0.98 U	0.98 U	0.98 U
124-48-1	Dibromochloromethane	ug/m3	0.45	1.7 U	1.7 U	3.4 UJ	17 U	1.7 U	1700 U	17 U	1.7 U	1.7 U	1.7 U
74-95-3	Dibromomethane	ug/m3	1.8	1.4 U	1.4 U	2.8 UJ	14 U	1.4 U	1400 U	14 U	1.4 U	1.4 U	1.4 U
75-71-8	Dichlorodifluoromethane	ug/m3	44	2.3 J	2.7 J	2 UJ	9.9 U	2.8 J	990 U	9.9 U	0.99 U	1.5 J	0.99 U

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75-43-4	Dichlorofluoromethane	ug/m3	N/A	0.84 U	0.84 U	1.7 UJ	8.4 U	0.84 U	840 U	8.4 U	0.84 U	0.84 U	0.84 U
100-41-4	Ethylbenzene	ug/m3	4.9	50	220	52 J	67	160	870 U	1100	0.87 U	1.6 J	7.8
76-13-1	Freon 113	ug/m3	13000	3.8 U	35	7.7 UJ	38 U	5.8 J	3800 U	38 U	3.8 U	3.8 U	3.8 U
76-14-2	Freon 114	ug/m3	N/A	1.4 U	1.4 U	2.8 UJ	14 U	1.4 U	1400 U	14 U	1.4 U	1.4 U	1.4 U
142-82-5	Heptane	ug/m3	N/A	2.6 J	0.82 U	2.6 J	8.2 U	2.6 J	820 U	160	1.6 J	0.82 U	2.9 J
67-72-1	Hexachloroethane	ug/m3	1.1	1.9 U	1.9 U	3.9 UJ	19 U	1.9 U	1900 U	19 U	1.9 U	1.9 U	1.9 U
110-54-3	Hexane	ug/m3	310	0.7 U	0.7 U	6.3 J	7 U	0.7 U	700 U	290	2.7 J	0.7 U	10
540-84-1	Isooctane	ug/m3	N/A	0.93 U	0.93 U	5.8 J	9.3 U	0.93 U	930 U	240	0.93 U	0.93 U	0.93 U
179601-23-1	m/p-Xylene	ug/m3	N/A	200	200	120 J	530	490	870 U	2100	1 J	15	68
1634-04-4	Methyl t-Butyl Ether	ug/m3	47	0.72 U	0.72 U	25 J	7.2 U	0.72 U	720 U	40	0.72 U	0.72 U	0.72 U
75-09-2	Methylene Chloride	ug/m3	260	0.69 U	0.69 U	1.4 UJ	6.9 U	0.69 U	690 U	6.9 U	0.69 U	0.69 U	0.69 U
111-65-9	Octane	ug/m3	N/A	2.6 J	0.93 U	14 J	9.3 U	0.93 U	930 U	210	0.93 U	0.93 U	0.93 U
95-47-6	o-Xylene	ug/m3	44	71	230	80 J	140	140	870 U	1400	0.87 U	3.7 J	11
109-66-0	Pentane	ug/m3	440	1.5 J	0.59 U	97 J	5.9 U	0.7 J	590 U	920	21	0.59 U	34
100-42-5	Styrene	ug/m3	440	0.85 U	0.85 U	1.7 UJ	8.5 U	0.85 U	850 U	8.5 U	0.85 U	0.85 U	0.85 U
127-18-4	Tetrachloroethene	ug/m3	18	1.4 U	55	7.9 J	130	210	1400 U	39 J	3.7 J	3.6 J	1.4 U
108-88-3	Toluene	ug/m3	2200	7.2	9.2	110 J	31 J	61	750 U	550	0.9 J	1.1 J	11
156-60-5	trans-1,2-Dichloroethene	ug/m3	N/A	0.79 U	0.79 U	19 J	7.9 U	0.79 U	44000	240	0.79 U	0.79 U	0.79 U
10061-02-6	trans-1,3-Dichloropropene	ug/m3	N/A	0.91 U	0.91 U	1.8 UJ	9.1 U	0.91 U	910 U	9.1 U	0.91 U	0.91 U	0.91 U
79-01-6	Trichloroethene	ug/m3	0.88	11	48	230 J	77	100	63000	140	5 J	35	190
75-69-4	Trichlorofluoromethane	ug/m3	310	1.1 U	1.7 J	2.2 UJ	11 U	1.4 J	1100 U	11 U	1.1 U	1.1 U	1.6 J
75-01-4	Vinyl Chloride	ug/m3	2.8	0.51 U	0.51 U	1 UJ	5.1 U	0.51 U	23000	16000	0.51 U	0.51 U	0.51 U

Detections in bold with gray highlighting

"U" Flag - non-detect

"J" Flag - estimated value

* Use of screening levels for comparison of subsurface vapor to indoor air requires application of attenuation factor

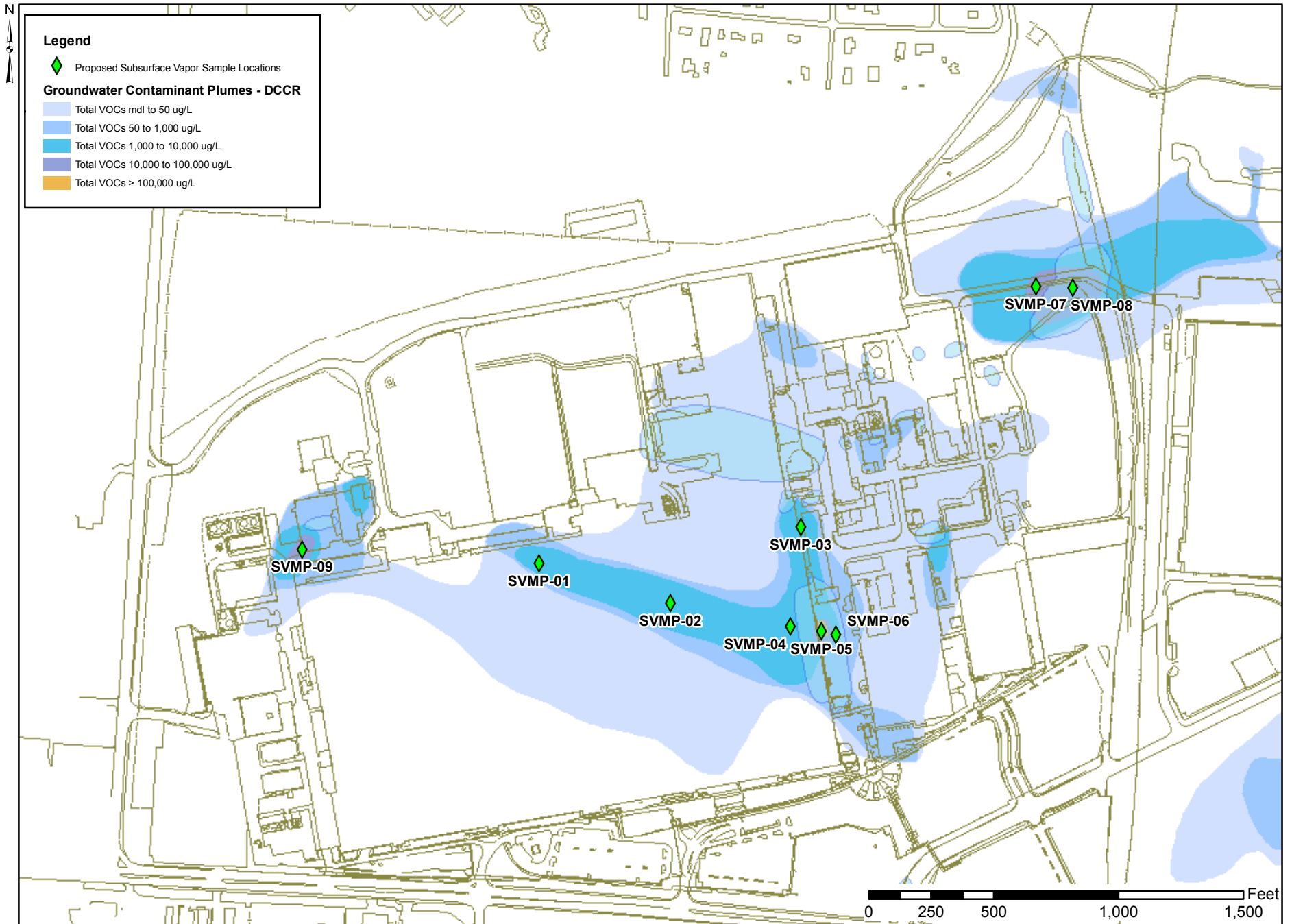


Figure 11 Proposed Subsurface Vapor Sampling Locations