

Draft Soil Gas Sampling Analytical Results
Former Amphenol Facility
EPA ID # IND 044 587 848
Franklin, IN 46131

EPA Regional Screening Levels (µg/m ³)		Parameters	Soil Gas Sampling Locations (µg/m ³)									
Residential Sub-Slab or Exterior Soil Gas		Sample Location	North Forsythe Street									
			Western right-of-way, near 850 N Forsythe	Field duplicate of sample SGe-7	Eastern right-of-way, near 833 N Forsythe	Western right-of-way, north of MW-31, near 750 N Forsythe	Eastern right-of-way, north of MW-31, near 730 N Forsythe	Western right-of-way, south of MW-31, near 715 N Forsythe	Eastern right-of-way, south of MW-31, near 721 N Forsythe	Eastern right-of-way, just to north of intersection with Ross Court	Eastern right-of-way, just to south of intersection with Ross Court	Eastern right-of-way, north of MW-32, near 441 N Forsythe
Cancer	Non-cancer	Sample ID	SGe-7	FD-1	SGe-8	SGe-9	SGe-10	SGe-11	SGe-12	SGe-14	SGe-15	SGe-16
		Sample Date	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018
600	N/A	1,1-Dichloroethane	<0.080	0.16	0.45	0.45	<0.078	<1.7	1.7	23.2	<1.7	29.4
36.7	243	1,2-Dichloroethane	<0.080	<0.080	<0.078	<0.083	<0.078	8.5	<0.83	<0.83	<0.83	<0.83
N/A	N/A	cis-1,2-Dichloroethene	0.14	0.19	<0.077	<0.081	<0.077	<1.6	<1.6	3.3	<1.6	<1.6
N/A	N/A	trans-1,2-Dichloroethene	<0.078	<0.078	<0.077	<0.081	<0.077	<1.6	<1.6	<1.6	<1.6	<1.6
33,333	21,000	Methylene chloride	14.5	14.1	28.4	18.8	42.1	43.4	20.7	10.1	10.3	9.7
3,667	1,400	Tetrachloroethylene (PCE)	28,800	24,000	16,300	19,700	19,300	1,270	25,600	1,920	1,030	11.0
N/A	170,000	1,1,1-Trichloroethane	234	227	462	1,280	1,170	136	1,910	2,840	90.7	2,880
160	70	Trichloroethylene (TCE)	1,310	1,040	1,100	4,720	3,540	284	8,260	8,180	511	6,610
56.7	3,333	Vinyl Chloride	<0.050	<0.050	<0.049	<0.053	<0.049	<0.53	<0.53	<0.53	<0.53	<0.53
N/A	N/A	Total VOCs	30,358.64	25,281.45	17,890.85	25,719.25	24,052.1	1,741.9	35,792.4	12,976.6	1,642.0	9,540.1

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EPA Regional Screening Levels (µg/m ³)		Parameters	Soil Gas Sampling Locations (µg/m ³)									
Residential Sub-Slab or Exterior Soil Gas		Sample Location	North Forsythe Street					Hamilton Avenue				
			Western right-of-way, west of Manhole #250010 approximately 15 feet	Sewer backfill material, south of Manhole #250052 approximately 96.5 feet	Sewer backfill material, north of MW-31 approximately 67 feet	Sewer backfill material, north of Manhole #250050 approximately 78.5 feet	Sewer backfill material, north of Manhole #250010 approximately 90 feet	Southern right-of-way, at intersection with Hurricane Road	Southern right-of-way, near 1001 Hamilton Avenue	Northern right-of-way, near 980 Hamilton Avenue	Southern right-of-way, near 851 Hamilton Avenue	Sewer backfill material, east of Manhole #250053 approximately 161 feet
Cancer	Non-cancer	Sample ID	SGe-17	SGbm-2	SGbm-3	SGbm-4	SGbm-6	SGe-1	SGe-4	SGe-5	SGe-6	SGbm-1
		Sample Date	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/1/2018
600	N/A	1,1-Dichloroethane	<0.12	7.2	14.5	3.6	22.9	<0.075	<1.6	<0.075	<0.077	0.11
36.7	243	1,2-Dichloroethane	1.5	<0.083	<0.086	<0.083	<0.085	<0.075	<0.80	<0.075	0.60	<0.083
N/A	N/A	cis-1,2-Dichloroethene	<0.11	145	15.3	6.6	0.95	<0.074	<1.6	<0.074	<0.075	0.15
N/A	N/A	trans-1,2-Dichloroethene	<0.11	<0.081	<0.085	<0.081	<0.083	<0.074	<1.6	<0.074	<0.075	<0.081
33,333	21,000	Methylene chloride	21.8	16.4	<7.4	18.7	11.4	20.0	16.6	20.5	21.6	21.1
3,667	1,400	Tetrachloroethylene (PCE)	16.8	111,000	31,500	23,500	118	105	20,500	11,300	37.6	758
N/A	170,000	1,1,1-Trichloroethane	22.5	508	4,670	1,650	1,410	334	211	178	8.6	197
160	70	Trichloroethylene (TCE)	2.7	12,700	28,800	12,100	187	16.4	257	67.4	3.6	171
56.7	3,333	Vinyl Chloride	<0.074	<0.053	0.11	<0.053	<0.054	<0.048	<0.50	<0.048	<0.049	<0.053
N/A	N/A	Total VOCs	65.3	124,376.6	64,999.91	37,278.9	1,750.25	475.40	20,984.60	11,565.9	72.00	1,147.36

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EPA Regional Screening Levels (µg/m ³)		Parameters	Soil Gas Sampling Locations (µg/m ³)									
Residential Sub-Slab or Exterior Soil Gas		Sample Location	Glendale Drive						Ross Court			
			Western right-of-way of the eastern leg, near 885 Glendale Drive	Southern right-of-way of the northern leg, near 897 Glendale Drive	Field duplicate of sample SGe-3	Northern right-of-way of the southern leg, near 889 Glendale Drive	Eastern right-of-way of the western leg, near 895 Glendale Drive	Sewer backfill material, south of Manhole #250072 approximately 162 feet	Sewer backfill material, south of Manhole #250080 approximately 122 feet	Southern right-of-way, near 1015 Ross Court	Northern right-of-way, near 1040 Ross Court	Sewer backfill material, west of Manhole #250041 approximately 56 feet
Cancer	Non-cancer	Sample ID	SGe-2	SGe-3	FD-2	SGe-18	SGe-19	SGbm-7	SGbm-8	SGe-13	SGe-20	SGbm-5
		Sample Date	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/1/2018	10/1/2018	10/2/2018	10/2/2018	10/2/2018
600	N/A	1,1-Dichloroethane	<0.077	<0.077	<0.077	<0.073	<0.077	<0.085	<0.085	<1.6	<0.12	4.6
36.7	243	1,2-Dichloroethane	<0.077	<0.077	<0.077	0.074	0.38	<0.085	<0.085	<0.80	<0.12	<0.81
N/A	N/A	cis-1,2-Dichloroethene	<0.075	<0.075	<0.075	<0.071	<0.075	0.097	<0.083	<1.6	<0.12	<1.6
N/A	N/A	trans-1,2-Dichloroethene	<0.075	<0.075	<0.075	<0.071	<0.075	<0.083	<0.083	<1.6	<0.12	<1.6
33,333	21,000	Methylene chloride	20.2	24.4	12.0	17.6	23.0	21.3	16.4	14.2	28.3	21.5
3,667	1,400	Tetrachloroethylene (PCE)	1.3	2.6	1.4	0.77	4.3	11.3	9.2	5.0	5.3	5.1
N/A	170,000	1,1,1-Trichloroethane	<0.10	0.20	<0.10	0.73	5.4	0.98	2.8	320	3.1	401
160	70	Trichloroethylene (TCE)	0.28	0.63	0.85	0.15	6.5	3.7	2.3	296	0.30	288
56.7	3,333	Vinyl Chloride	<0.049	<0.049	<0.049	<0.046	<0.049	<0.054	<0.054	<0.50	<0.078	<0.51
N/A	N/A	Total VOCs	21.78	27.83	14.3	19.324	39.58	37.377	30.7	635.2	37.00	720.2

Notes:

- All samples collected by IWM Consulting personnel and analyzed at Pace Analytical Services, LLC located in Minneapolis, MN.
- All VOCs analyzed using EPA Method TO-15, except for TCE, 1,2-DCA, and Vinyl Chloride, which were analyzed using EPA Method TO-15 SIM.
- All results in µg/m³.
- N/A: not applicable (risk-based screening levels have not been developed).
- IWM Consulting personnel obtained all of the soil gas samples utilizing a 1-liter summa canister equipped with an 10-minute flow regulator (~100 mL/minute flow rate).
- EPA Regional Screening Levels correspond to the published USEPA Regional Screening Levels, updated May 2018.
- Non-cancer Residential Sub-Slab or Exterior Soil Gas EPA Regional Screening Levels determined by dividing the non-cancer Residential Indoor Ambient Air EPA Regional Screening Level by an attenuation factor of 0.03, per Appendix A (Section A.3.3) of the OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air (June 2015).
- EPA Regional Screening Levels for Residential Ambient Indoor Air - Cancer calculated using a Target Cancer Risk Factor of 1x10⁻⁵.
- Bolded** concentrations exceed the most conservative corresponding EPA Regional Screening Level for Residential Sub-Slab or Exterior Soil Gas.