

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

EPA Regional Screening Levels (µg/m ³)		Parameters	Sewer Gas Sampling Locations (µg/m ³)									
Residential Indoor Ambient Air		Sample Location	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole
			North Forsythe Street, southern portion of study area, near Hurricane Creek	North Forsythe Street, southern portion of study area, near MW-32	North Forsythe Street, southern portion of study area, near entrance to 600 N Forsythe St	North Forsythe Street, southern portion of study area, at intersection with Ross Court	Ross Court, southern portion of study area, near North Forsythe Street	Ross Court, southern portion of study area, central portion of street	Ross Court, southern portion of study area, east end of street	North Forsythe Street, central portion of study area, near MW-31	North Forsythe Street, northern portion of study area, near MW-34	North Forsythe Street, northern portion of study area, near MW-34
Cancer	Non-Cancer	Sample ID	MH 250010	MH 250020	MH 250030	MH 250040	MH 250041	MH 250042	MH 250043	MH 250050	MH 250051 Grab	MH 250051 8-Hour
		Sample Date	9/14/2018	9/14/2018	9/14/2018	9/14/2018	9/15/2018	9/15/2018	9/15/2018	9/15/2018	9/14/2018	9/14/2018
1.8	N/A	1,1 dichloroethane	28.6	22.2	14.1	12.0	0.22	<0.088	<0.083	5.4	<0.083	1.6
0.11	7.3	1,2 dichloroethane	<0.085	<0.083	6.7	<0.088	0.21	0.12	<0.083	3.8	0.50	<0.077
N/A	N/A	Cis 1,2 dichloroethene	44.9	44.6	38.4	33.1	0.34	<0.087	<0.081	25.6	0.17	27.8
N/A	N/A	Trans 1,2 dichloroethene	<0.083	<0.081	<0.087	0.86	<0.085	<0.087	<0.081	0.25	<0.081	<0.075
100	630	Methylene chloride	29.3	23.6	16.9	17.7	20.6	11.5	8.9	23.2	27.5	16.1
11	42	Tetrachloroethylene (PCE)	1,030	211	466	442	6.9	0.51	0.34	651	3.7	255
N/A	5,200	1,1,1 trichloroethane	307	242	117	105	1.9	<0.12	<0.11	64.8	0.19	13.0
0.48	2.1	Trichloroethylene (TCE)	1,290	228	480	379	8.6	0.39	0.24	272	0.34	47.0
0.17	100	Vinyl Chloride	3.0	2.6	1.0	<0.056	<0.055	<0.056	<0.053	<0.055	<0.053	<0.049
N/A	N/A	Total VOCs	2,732.8	774.0	1,140.1	989.66	38.77	12.52	9.48	1,046.05	32.40	360.5

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Residential Indoor Ambient Air		Sample Location	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole
			Hamilton Avenue, northern portion of study area, at intersection with North Forsythe Street	Hamilton Avenue, northern portion of study area, west of North Forsythe Street	Hamilton Avenue, northern portion of study area, west of North Forsythe Street	Hamilton Avenue, northwestern portion of study area, west of North Forsythe Street	Hamilton Avenue, field duplicate sample of MH 250054	On-site, northern portion of study area, southwest of RW-5	On-site, northern portion of study area, southeast of MW-12R	Glendale Drive to Forsythe Street, central portion of study area, back yard	Glendale Drive, northern portion of study area, southwestern corner of Glendale Drive	Glendale Drive, northern portion of study area, southeastern corner of Glendale Drive	Glendale Drive, northern portion of study area, northeastern corner of Glendale Drive
Cancer	Non-Cancer	Sample ID	MH 250052	MH 250053	MH 250053 B	MH 250054	FD-1	MH 250055	MH 250056	MH 250060	MH 250070	MH 250071	MH 250072
		Sample Date	9/14/2018	9/14/2018	9/14/2018	9/14/2018	9/14/2018	9/14/2018	9/14/2018	9/14/2018	NA	9/15/2018	9/15/2018
1.8	N/A	1,1 dichloroethane	1.2	<0.090	<0.086	<0.086	<0.086	7.0	<0.083	NA	<0.086	<0.086	<0.085
0.11	7.3	1,2 dichloroethane	1.3	0.58	0.39	<0.086	<0.086	2.0	<0.083	NA	0.18	<0.086	<0.085
N/A	N/A	Cis 1,2 dichloroethene	18.5	<0.088	<0.085	0.30	0.24	115	102	NA	<0.085	<0.085	<0.083
N/A	N/A	Trans 1,2 dichloroethene	<0.15	<0.088	<0.085	<0.085	<0.085	0.41	0.38	NA	<0.085	<0.085	<0.083
100	630	Methylene chloride	412	15.1	14.4	11.3	11.5	12.8	13.9	NA	14.7	10.8	11.7
11	42	Tetrachloroethylene (PCE)	268	9.6	12.9	2.5	2.6	260	225	NA	3.9	0.26	0.33
N/A	5,200	1,1,1 trichloroethane	15.3	3.5	1.7	0.14	0.12	33.7	32.0	NA	0.49	0.12	<0.11
0.48	2.1	Trichloroethylene (TCE)	49.3	17.6	2.2	0.58	0.50	111	91.0	NA	1.1	0.15	<0.11
0.17	100	Vinyl Chloride	<0.096	<0.057	<0.055	<0.055	<0.055	<0.055	<0.053	NA	<0.055	<0.055	<0.054
N/A	N/A	Total VOCs	765.6	46.38	31.59	14.82	14.96	541.91	464.28	NA	20.37	11.33	12.03

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Residential Indoor Ambient Air	Sample Location	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Sanitary Sewer Manhole	Storm Sewer Manhole	Storm Sewer Manhole	Storm Sewer Manhole	Storm Sewer Manhole
		Glendale Drive, northern portion of study area, northwestern corner of Glendale Drive	Glendale Drive, field duplicate sample of MH 250080	Glendale Drive, northern portion of study area, at intersection with Hamilton Avenue	Hamilton Avenue, northern portion of study area, at intersection with Hurricane Road	Hurricane Road, northern portion of study area, north of intersection with Shelbyville Road	Hurricane Road, northern portion of study area, near entrance to 1015 Hurricane Road	On-site, northern portion of study area, near MW-22	On-site, northern portion of study area, southwest of MW-12R	Hamilton Avenue, northern portion of study area, at intersection with Hurricane Road	Agricultural field, northern portion of study area, east of manhole SS-East 1	
Cancer	Non-Cancer	Sample ID	MH 250080	FD-2	MH 250090	MH 250100	MH 250120	MH 250130	MH SS-North	MH SS-South	MH SS-East 1	MH SS-East 2
		Sample Date	9/14/2018	9/14/2018	9/14/2018	9/15/2018	9/15/2018	9/15/2018	9/17/2018	9/17/2018	9/17/2018	9/17/2018
1.8	N/A	1,1 dichloroethane	0.22	<0.083	<0.086	<0.086	0.097	<0.086	<0.086	<0.088	0.73	0.12
0.11	7.3	1,2 dichloroethane	1.6	1.5	2.0	<0.086	<0.088	<0.086	<0.086	<0.088	<0.086	0.12
N/A	N/A	Cis 1,2 dichloroethene	<0.085	<0.081	<0.085	<0.085	<0.087	<0.085	<0.085	0.11	0.53	0.12
N/A	N/A	Trans 1,2 dichloroethene	<0.085	<0.081	<0.085	<0.085	<0.087	<0.085	<0.085	<0.087	<0.085	<0.090
100	630	Methylene chloride	13.1	19.6	11.0	14.2	63.4	13.1	10.3	11.6	9.8	11.4
11	42	Tetrachloroethylene (PCE)	12.7	12.2	24.0	0.37	3.9	0.47	22.9	32.9	71.5	10.6
N/A	5,200	1,1,1 trichloroethane	23.9	22.9	34.0	<0.12	1.2	3.1	0.60	0.63	7.7	1.0
0.48	2.1	Trichloroethylene (TCE)	68.2	65.0	102	0.33	1.1	<0.11	1.8	2.1	14.6	2.7
0.17	100	Vinyl Chloride	<0.055	<0.053	<0.055	<0.055	<0.056	<0.055	<0.055	<0.056	<0.055	<0.058
N/A	N/A	Total VOCs	119.72	121.2	173.0	14.9	69.70	16.67	35.60	47.34	104.86	26.06

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 sewer gas samples utilizing a 1-liter summa canister equipped with an 10-minute flow regulator (~100 mL/minute flow rate), with exception of sample MH 250051 8-Hour.
- IWM Consulting personnel obtained sewer gas sample MH 250051 8-Hour utilizing a 1-liter summa canister equipped with an 8-hour flow regulator (~2.0 mL/minute flow rate).
- EPA Regional Screening Levels correspond to the published USEPA Regional Screening Levels, updated May 2018.
- NA: Not accessible. Manhole could not be opened.