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Table 1

Soil Boring Summary
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Study Area	Location ID	Coordinates ¹		Date Completed	Ground Elevation ² (feet MSL)	Depth to Water (feet bgs)	Total Depth (feet bgs)	Field Screening Results ³			Maximum PID Reading (ppm)		Sample Collection ⁴		
		Northing	Easting					Discoloration	Odor	Sheen	Vadose Zone	Below GW Table	Soil	Groundwater (Temporary Well)	Soil Vapor (Temporary Port)
Site	Investigation Borings														
	DP-060	482404.38	4981957.06	10/14/2014	861.4	17.60	53.3				<2.0	<2.0		X	
	DP-061	482397.96	4981949.23	10/15/2014	862.0	17.38	58.0			VZ	8.7	<2.0	X	X	
	DP-062	482409.83	4981939.22	10/15/2014	861.5	17.09	59.0				<2.0	<2.0		X	
	DP-063	482378.60	4981918.01	10/16/2014	861.2	17.90	50.0				<2.0	2.1		X	
	DP-064	482424.56	4981907.86	10/13/2014	859.0	20.09	55.0				8.9	12.5	X	X	
	DP-065	482375.60	4981898.46	10/16/2014	859.4	20.75	50.0				3.2	3.6		X	
	DP-066	482408.04	4981880.97	10/17/2014	857.6	18.98	54.0				<2.0	21.0	X	X	
	DP-067	482352.05	4981897.81	10/20/2014	858.2	19.40	54.0				3.1	3.7	X	X	
	DP-068	482290.24	4981921.31	10/21/2014	858.2	18.30	40.0				19.4	<2.0	X	X	
	DP-069	482274.54	4981951.50	10/21/2014	858.4	18.40	40.0				2.3	<2.0	X	X	
	DP-070	482246.15	4981982.80	10/22/2014	857.5	17.70	40.0	GW	GW	GW	144.3	1,226	X	X	X
	DP-071	482228.23	4981985.31	10/22/2014	857.2	17.90	36.5	GW	GW		7.2	171.2	X	X	X
	Pilot Borings														
	308	482402.88	4981934.03	10/21/2014	861.8	18.00	58.0				2.1	2.5			
	311	482396.35	4981844.89	10/27/2014	857.7	19.00	54.0	VZ/GW	VZ/GW	VZ/GW	1,733	1,352	X		
	SMW1	482321.64	4981987.95	10/20/2014	859.3	17.90	39.0				<2.0	<2.0			
SVP1	482322.07	4981986.41	10/21/2014	859.1	NA	9.0				NR	NR				
SVP2	482310.25	4981924.12	10/23/2014	858.3	NA	9.0				2.3	<2.0				
SVP30	482410.78	4981972.46	10/22/2014	861.5	NA	9.0				<2.0	<2.0				
Northeast Area	Investigation Borings														
	DP-072	482644.52	4981997.21	10/27/2014	860.0	15.00	40.0				<2.0	12.2		X	
	DP-073	482644.20	4981985.82	10/28/2014	859.7	15.10	48.0				6.1	24.4	X	X	
	DP-074	482643.81	4981972.88	10/28/2014	860.1	14.90	54.0				4.6	11.0	X	X	
	DP-075	482643.60	4981966.24	10/29/2014	859.9	15.00	52.0				4.2	8.7		X	
	DP-076	482643.63	4981958.96	10/29/2014	859.8	15.10	46.0				<2.0	5.7		X	
	Pilot Borings														
	301	482830.82	4982139.56	12/4/2014	865.1	18.50	57.8				<2.0	48.9	X	X	
	302	482429.97	4982142.78	12/10/2014	861.9	16.50	53.7				<2.0	<2.0			
	303	482697.13	4982135.67	12/5/2014	862.9	16.10	55.0				<2.0	11.3		X	
	304	482845.78	4981997.02	12/8/2014	860.7	14.30	51.1	GW			<2.0	2.4		X	
	305	482529.45	4982061.17	12/9/2014	862.4	17.50	55.0				<2.0	3.2		X	
	306	482644.57	4981995.97	11/10/2014	860.2	15.80	36.0				NR	NR			
	307	482443.07	4981986.68	10/28/2014	860.7	16.50	55.0				<2.0	<2.0			
310	482395.25	4981845.21	10/28/2014	859.1	13.10	32.0			VZ/GW	<2.0	<2.0				

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Study Area	Location ID	Coordinates ¹		Date Completed	Ground Elevation ² (feet MSL)	Depth to Water (feet bgs)	Total Depth (feet bgs)	Field Screening Results ³			Maximum PID Reading (ppm)		Sample Collection ⁴		
		Northing	Easting					Discoloration	Odor	Sheen	Vadose Zone	Below GW Table	Soil	Groundwater (Temporary Well)	Soil Vapor (Temporary Port)
Central Area	Pilot Borings														
	309	482543.12	4981935.22	11/4/2014	861.1	16.50	50.0				<2.0	6.0			
	312	482541.10	4981807.11	11/6/2014	855.6	18.00	45.0				<2.0	<2.0			
	313	482331.82	4981656.44	10/31/2014	850.6	17.00	48.0				<2.0	23.0	X		X
	314	482165.74	4981559.92	12/11/2014	846.9	17.00	42.6				<2.0	11.3	X		X
	315	482116.89	4981508.89	11/11/2014	845.0	19.00	48.0				<2.0	6.9	X		X
	SMW3	482303.22	4981832.78	11/5/2014	852.8	15.60	49.5				<2.0	6.7	X		
	SMW6	482211.16	4981731.30	11/4/2014	849.9	17.10	49.0				<2.0	15.3	X		
	SMW10	482034.22	4981556.32	12/2/2014	846.2	19.10	48.2				<2.0	<2.0			
	SMW16	482165.29	4981362.97	12/12/2014	845.3	20.00	49.3				<2.0	5.7			
	SMW19	482330.66	4981457.64	11/14/2014	847.0	15.20	30.0				<2.0	<2.0			
	SMW22	482331.32	4981608.13	12/11/2014	849.6	16.50	47.5				<2.0	30.7			
	SMW25	482440.67	4981723.60	10/30/2014	853.6	16.80	23.5				<2.0	3.9			
	SVP3	482301.23	4981833.32	11/3/2014	852.8	NA	9.5				<2.0	<2.0			
	SVP4	482207.69	4981831.99	11/3/2014	851.5	NA	9.0				<2.0	<2.0			
	SVP5	482212.11	4981790.19	11/3/2014	859.8	NA	9.0				<2.0	<2.0			
	SVP6	482211.15	4981729.64	11/3/2014	850.3	NA	9.0				<2.0	<2.0			
	SVP7	482167.06	4981674.74	10/31/2014	848.4	NA	9.0				<2.0	<2.0			
	SVP8	482102.89	4981643.74	10/31/2014	848.0	NA	9.0				<2.0	<2.0			
	SVP9	482056.17	4981563.87	12/1/2014	846.9	NA	9.0				<2.0	<2.0			
	SVP10	482035.78	4981556.29	12/1/2014	845.8	NA	9.0				<2.0	<2.0			
	SVP11	481989.58	4981491.58	10/31/2014	845.5	NA	9.0				<2.0	<2.0			
	SVP12	481906.29	4981443.50	12/1/2014	843.2	NA	9.0				<2.0	<2.0			
	SVP13	481910.25	4981379.83	12/1/2014	841.1	NA	9.0				<2.0	<2.0			
	SVP14	481991.13	4981342.16	10/31/2014	850.7	NA	9.0				<2.0	<2.0			
	SVP15	482116.41	4981337.43	11/12/2014	840.8	NA	10.0				<2.0	<2.0			
	SVP16	482164.80	4981361.44	12/12/2014	845.5	NA	9.0				<2.0	<2.0			
	SVP17	482221.24	4981372.72	11/3/2014	854.1	NA	9.0				<2.0	<2.0			
	SVP18	482271.90	4981372.45	12/15/2014	845.1	NA	9.0				<2.0	<2.0			
	SVP19	482330.47	4981459.45	11/14/2014	847.3	NA	9.0				<2.0	<2.0			
	SVP20	482331.15	4981530.74	10/30/2014	848.0	NA	9.0				<2.0	<2.0			
	SVP21	482331.81	4981572.66	10/31/2014	848.4	NA	9.0				<2.0	<2.0			
	SVP22	482331.46	4981609.91	12/15/2014	849.4	NA	9.0				<2.0	<2.0			
	SVP23	482439.90	4981649.60	10/30/2014	850.3	NA	9.0				<2.0	<2.0			

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Study Area	Location ID	Coordinates ¹		Date Completed	Ground Elevation ² (feet MSL)	Depth to Water (feet bgs)	Total Depth (feet bgs)	Field Screening Results ³			Maximum PID Reading (ppm)		Sample Collection ⁴		
		Northing	Easting					Discoloration	Odor	Sheen	Vadose Zone	Below GW Table	Soil	Groundwater (Temporary Well)	Soil Vapor (Temporary Port)
Central Area	SVP24	482440.32	4981682.05	10/30/2014	850.7	NA	9.0				<2.0	<2.0			
	SVP25	482440.85	4981725.05	10/30/2014	854.1	NA	10.0				<2.0	<2.0			
	SVP26	482540.22	4981725.44	11/3/2014	848.0	NA	9.0			VZ	<2.0	<2.0	X		
	SVP27	482540.80	4981803.60	11/6/2014	848.0	NA	9.0				<2.0	<2.0			
	SVP28	482542.49	4981931.83	11/5/2014	845.5	NA	9.0				<2.0	<2.0			
	SVP29	482442.95	4981941.79	10/30/2014	859.8	NA	9.0				<2.0	<2.0			
Southwest Area	Investigation Borings														
	DP-077	481824.28	4981360.89	11/5/2014	836.6	13.80	42.0				<2.0	<2.0		X	
	Pilot Borings														
	316	481820.72	4981342.48	11/13/2014	835.3	16.50	39.5				<2.0	<2.0			
	317	481993.01	4981228.53	11/6/2014	839.2	15.50	46.0				<2.0	<2.0			
	318	481536.24	4981296.65	11/6/2014	835.0	15.60	40.0				<2.0	<2.0			

Notes:

1 - Northing and Easting coordinates are given in UTM Zone 15N, NAD83 (meters).

2 - Elevations are given in NGVD 29.

3 - Indicates observations of discoloration, odor, and sheen recorded in boring logs at the following locations:

VZ - vadose zone

GW - below water table

4 - See Tables 3, 4, and 5 for additional details.

NA - not applicable

NR - not recorded, field screening not completed at this location

bgs - below ground surface

ppm - parts per million

MSL - mean sea level

Table 2
Monitoring Well Details
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Study Area	Well ID	Date Installed	Unique Number	Coordinates ²		Monitoring Well Network		Screen Details			Elevations (feet MSL) ³			
				Northing	Easting	Glacial Drift	Sentinel	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Screen Length (feet)	Top of Casing	Ground Surface	Top of Screen	Bottom of Screen
Site	308GS	10/23/2014	810027	4981933.22	482403.80	X		14.5	24.5	10	864.23	861.8	847.3	837.3
	308GD	10/21/2014	810028	4981934.03	482402.88	X		51.0	56.0	5	864.68	861.8	810.8	805.8
	311GS	10/24/2014	810029	4981845.11	482394.33	X		14.0	24.0	10	860.18	857.7	843.7	833.7
	311GD	10/27/2014	810030	4981845.21	482395.25	X		36.5	41.5	5	860.34	857.7	821.2	816.2
	SMW1	10/20/2014	810026	4981987.95	482321.64		X	14.0	24.0	10	861.74	859.3	845.3	835.3
	109	1984	191913	4981842.46	482390.25	X		18.0	42.0	24	859.74	857.8	839.8	815.8
	B	1981	U	4981923.08	482424.81	X		16.6	26.6	10	864.16	862.4	845.8	835.8
Northeast Area	301GS	12/4/2014	810053	4982138.85	482830.86	X		14.5	24.5	10	867.81	865.0	850.5	840.5
	301GD	12/4/2014	810054	4982139.56	482830.82	X		45.0	50.0	5	868.27	865.1	820.1	815.1
	302GS	12/10/2014	810059	4982142.78	482429.97	X		12.5	22.5	10	864.04	861.9	849.4	839.4
	303GS	12/5/2014	810055	4982135.67	482697.13	X		12.5	22.5	10	865.80	862.9	850.4	840.4
	304GS	12/8/2014	810056	4981997.02	482845.78	X		10.5	20.5	10	863.47	860.7	850.2	840.2
	305GS	12/9/2014	810057	4982060.10	482529.46	X		12.5	22.5	10	864.29	862.3	849.8	839.8
	305GD	12/9/2014	810058	4982061.17	482529.45	X		49.5	54.5	5	864.25	862.4	812.9	807.9
	306GS	11/10/2014	810034	4981997.13	482644.60	X		11.0	21.0	10	862.45	860.1	849.1	839.1
	306GD	11/10/2014	810035	4981995.97	482644.57	X		31.0	36.0	5	862.77	860.2	829.2	824.2
	307GS	10/29/2014	810032	4981988.11	482443.30	X		11.0	21.0	10	863.27	860.7	849.7	839.7
	307GD	10/28/2014	810033	4981986.68	482443.07	X		47.1	52.1	5	863.28	860.7	813.6	808.6
	310GS	10/28/2014	810031	4981837.77	482727.91	X		9.5	19.5	10	861.44	859.1	849.6	839.6
Central Area	309GS	11/4/2014	810045	4981935.16	482542.08	X	X	12.5	22.5	10	863.47	861.0	848.5	838.5
	309GD	11/4/2014	810046	4981935.22	482543.12	X		42.0	47.0	5	863.55	861.1	819.1	814.1
	312GS	11/6/2014	810043	4981805.62	482540.82	X	X	13.0	23.0	10	858.28	855.5	842.5	832.5
	312GD	11/6/2014	810044	4981807.11	482541.10	X		36.5	41.5	5	858.32	855.6	819.1	814.1
	313GS	11/3/2014	810037	4981658.13	482331.61	X		13.0	23.0	10	853.14	850.6	837.6	827.6
	313GD	10/31/2014	810038	4981656.44	482331.82	X		27.5	32.5	5	853.12	850.6	823.1	818.1
	314GS	12/12/2014	810060	4981560.94	482165.80	X		13.0	23.0	10	849.67	846.9	833.9	823.9
	314GD	12/11/2014	810061	4981559.92	482165.74	X		32.5	37.5	5	850.04	846.9	814.4	809.4
	315GS	11/11/2014	810047	4981509.81	482116.80	X		15.0	25.0	10	847.94	845.1	830.1	820.1
	315GD	11/11/2014	810048	4981508.89	482116.89	X		31.5	36.5	5	848.20	845.0	813.5	808.5
	SMW3	11/5/2014	810039	4981832.78	482303.22		X	11.8	21.8	10	855.44	852.8	841.0	831.0
	SMW6	11/4/2014	810040	4981731.30	482211.16		X	13.2	23.2	10	852.22	849.9	836.7	826.7
	SMW10	12/2/2014	810052	4981556.32	482034.22		X	15.0	25.0	10	848.97	846.2	831.2	821.2
	SMW16	12/12/2014	810062	4981362.97	482165.29		X	16.0	26.0	10	847.78	845.3	829.3	819.3
	SMW19	11/14/2014	810051	4981457.64	482330.66		X	12.0	22.0	10	849.52	847.0	835.0	825.0
	SMW22	12/11/2014	810063	4981608.13	482331.32		X	12.5	22.5	10	852.37	849.6	837.1	827.1
	SMW25	10/30/2014	810036	4981723.60	482440.67		X	13.0	23.0	10	856.52	853.6	840.6	830.6
	2	1981	196722	4981799.37	482380.44	X		16.0	26.0	10	857.07	853.8	837.8	827.8
	110	1983	256171	4981685.37	482319.19	X		17.0	37.0	20	852.19	850.7	833.7	813.7
	111	1984	U	4981489.81	481972.27	X	X	20.0	40.0	20	846.81	845.9	825.9	805.9
	112	1984	U	4981354.04	481968.22	X	X	16.0	36.0	20	841.19	840.1	824.1	804.1
	113	1984	U	4981342.14	482033.15	X	X	20.0	40.0	20	841.09	840.3	820.3	800.3
	Q	1984	U	4981675.27	482015.40	X		13.9	23.9	10	850.21	848.2	834.3	824.3
	S	1984	U	4981456.76	482210.79	X		14.5	24.5	10	848.07	846.1	831.6	821.6
	T ¹	1984	U	4981431.75	482402.17	X		12.0	22.0	10	849.34	847.2	835.2	825.2
	X	1984	U	4981288.55	482115.46	X		9.0	19.0	10	842.70	840.5	831.5	821.5

Table 2
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Study Area	Well ID	Date Installed	Unique Number	Coordinates ²		Monitoring Well Network		Screen Details			Elevations (feet MSL) ³			
				Northing	Easting	Glacial Drift	Sentinel	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Screen Length (feet)	Top of Casing	Ground Surface	Top of Screen	Bottom of Screen
Southwest Area	316GS	11/14/2014	810049	4981342.51	481819.73	X		5.5	15.5	10	837.65	835.3	829.8	819.8
	316GD	11/13/2014	810050	4981342.48	481820.72	X		34.0	39.0	5	837.88	835.3	801.3	796.3
	317GS	11/6/2014	810042	4981228.53	481993.01	X		11.0	21.0	10	841.71	839.2	828.2	818.2
	318GS	11/6/2014	810041	4981296.65	481536.24	X		9.0	19.0	10	837.59	835.0	826.0	816.0
	V	1984	U	4981344.35	481718.30	X		15.6	25.6	10	838.52	837.1	821.5	811.5
	W	1984	U	4981193.25	481736.69	X		7.1	17.1	10	830.77	828.8	821.7	811.7

Notes:

1 - Historic Well T installed 2/10/84 and abandoned 2/14/84 due to grout contamination of the screen. A new well (historically referred to as Well T-2) was installed adjacent to the original well on 2/15/84 and is generally referred to as Well T.

2 - Northing and easting coordinates are given in UTM Zone 15N, NAD83 (meters).

3 - Elevations are given in NGVD 29. Existing wells were reported in NGVD88 in previous reports and elevations may be slightly different (typically +/- 0.2 feet).

U - unknown

bgs - below ground surface

MSL - mean sea level

Table 3

Vapor Monitoring Port Details
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Vapor Monitoring Port ¹	Date Installed	Coordinates ²		Ground Elevation (feet MSL) ³	Depth to Bottom (feet bgs)	Screen Interval (feet bgs)	Sand Pack Interval (feet bgs)	Located on the Site?
		Northing	Easting					
SVP1	10/21/2014	4981986.41	482322.07	859.0	9	8 - 8.5	7.5 - 9	x
SVP2	10/23/2014	4981924.12	482310.25	858.3	9	8 - 8.5	7.5 - 9	x
SVP3	11/3/2014	4981833.32	482301.23	852.8	9	8 - 8.5	7.5 - 9	
SVP4	11/3/2014	4981831.99	482207.69	851.5	9	8 - 8.5	7.5 - 9	
SVP5	11/3/2014	4981790.19	482212.11	859.8	9	8 - 8.5	7.5 - 9	
SVP6	11/3/2014	4981729.64	482211.15	850.3	9	8 - 8.5	7.5 - 9	
SVP7	10/31/2014	4981674.74	482167.06	848.4	9	8 - 8.5	7.5 - 9	
SVP8	10/31/2014	4981643.74	482102.89	848.0	9	8 - 8.5	7.5 - 9	
SVP9	12/1/2014	4981563.87	482056.17	846.9	9	8 - 8.5	7.5 - 9	
SVP10	12/1/2014	4981556.29	482035.78	845.8	9	8 - 8.5	7.5 - 9	
SVP11	10/31/2014	4981491.58	481989.58	845.5	9	8 - 8.5	7.5 - 9	
SVP12	12/1/2014	4981443.50	481906.29	843.2	9	8 - 8.5	7.5 - 9	
SVP13	12/1/2014	4981379.83	481910.25	841.1	9	8 - 8.5	7.5 - 9	
SVP14	10/31/2014	4981342.16	481991.13	850.7	9	8 - 8.5	7.5 - 9	
SVP15	11/12/2014	4981337.43	482116.41	840.8	9	8 - 8.5	7.5 - 9	
SVP16	12/12/2014	4981361.44	482164.80	845.5	9	8 - 8.5	7.5 - 9	
SVP17	11/3/2014	4981372.72	482221.24	854.1	9	8 - 8.5	7.5 - 9	
SVP18	12/15/2014	4981372.45	482271.90	845.1	9	8 - 8.5	7.5 - 9	
SVP19	11/14/2014	4981459.45	482330.47	847.3	9	8 - 8.5	7.5 - 9	
SVP20	10/30/2014	4981530.74	482331.15	848.0	9	8 - 8.5	7.5 - 9	
SVP21	10/31/2014	4981572.66	482331.81	848.4	9	8 - 8.5	7.5 - 9	
SVP22	12/15/2014	4981609.91	482331.46	849.4	9	8 - 8.5	7.5 - 9	
SVP23	10/30/2014	4981649.60	482439.90	850.3	9	8 - 8.5	7.5 - 9	
SVP24	10/30/2014	4981682.05	482440.32	850.7	9	8 - 8.5	7.5 - 9	
SVP25	10/30/2014	4981725.05	482440.85	854.1	10	9 - 9.5	8.5 - 10	
SVP26	11/3/2014	4981725.44	482540.22	848.0	9	8 - 8.5	7.5 - 9	
SVP27	11/6/2014	4981803.60	482540.80	848.0	9	8 - 8.5	7.5 - 9	
SVP28	11/5/2014	4981931.83	482542.49	845.5	9	8 - 8.5	7.5 - 9	
SVP29	10/30/2014	4981941.79	482442.95	859.8	9	8 - 8.5	7.5 - 9	
SVP30	10/22/2014	4981972.46	482410.78	861.5	9	8 - 8.5	7.5 - 9	x

Notes:

1 - All vapor monitoring ports are included in the sentinel monitoring network and were sampled in December 2014 and March 2015.

These vapor monitoring ports will be sampled during the second and third quarter of 2015.

2 - Northing and Easting coordinates are given in UTM Zone 15N, NAD83 (meters).

3 - Elevations are given in NGVD 29.

bgs - below ground surface

MSL - mean sea level

Table 4

Soil Sampling Summary
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Study Area	Sample Location	Sample Interval (feet bgs)	Date Sampled	Sampled in		Headspace (ppm)
				Vadose Zone	Groundwater	
Site	DP-061	6.5	10/14/2014	X		8.7
	DP-064	3.5	10/13/2014	X		8.9
	DP-064	16	10/13/2014	X		7.5
	DP-066	44	10/17/2014		X	6.9
	DP-066	52.5	10/17/2014		X	21.0
	DP-067	3	10/20/2014	X		3.1
	DP-067	19	10/20/2014	X		3.1
	DP-068	12	10/20/2014	X		19.4
	DP-069	11	10/21/2014	X		2.3
	DP-070	10	10/21/2014	X		75.1
	DP-071	9.5	10/22/2014	X		7.2
	311 Pilot	17.5	10/23/2014	X		1,733
Northeast Area	DP-073	11	10/27/2014	X		6.1
	DP-073	40.5	10/27/2014		X	24.4
	DP-074	4.5	10/28/2014	X		4.6
	301	35	12/2/2014		X	38.4
	301	42	12/2/2014		X	48.9
Central Area	313	39	10/31/2014		X	23.0
	314	39	12/11/2014		X	2.8
	315	45.5	11/11/2014		X	6.9
	SMW3	40.5	11/04/2014		X	3.5
	SMW6	41	11/04/2014		X	15.3
	SVP26	8	11/03/2014	X		0.2
Southwest Area	No Soil Samples Collected					

Notes:

bgs - feet below ground surface

ppm - parts per million

Soil Sampling Analytical Results
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Note: Detected compound results shown in **bold**

Table 5

Soil Sampling Analytical Results
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Area Location Date Depth Sample Type	Central Area			
	315 11/11/2014 45.5 ft N	SMW3 11/04/2014 40.5 ft N	SMW6 11/04/2014 41 ft N	SVP26 11/03/2014 8 ft N
Parameter				
VOCs				
Trichloroethylene	2420 ug/kg	812 ug/kg	4230 ug/kg	< 52.4 ug/kg
1,1,1,2-Tetrachloroethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,1,1-Trichloroethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,1,2,2-Tetrachloroethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,1,2-Trichloroethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,1-Dichloro-1-propene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,1-Dichloroethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,1-Dichloroethylene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,2,3-Trichlorobenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,2,3-Trichloropropane	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
1,2,4-Trichlorobenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,2,4-Trimethylbenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,2-Dibromo-3-chloropropane	< 618 ug/kg	< 564 ug/kg	< 564 ug/kg	< 524 ug/kg
1,2-Dibromoethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,2-Dichlorobenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,2-Dichloroethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,2-Dichloroethylene, cis	76.3 ug/kg	< 56.4 ug/kg	112 ug/kg	< 52.4 ug/kg
1,2-Dichloroethylene, trans	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,2-Dichloropropane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,3,5-Trimethylbenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,3-Dichloro-1-propene, cis	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,3-Dichloro-1-propene, trans	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,3-Dichlorobenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,3-Dichloropropane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
1,4-Dichlorobenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
2,2-Dichloropropane	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
Acetone	< 1240 ug/kg	< 1130 ug/kg	< 1130 ug/kg	< 1050 ug/kg
Allyl Chloride	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
Benzene	< 24.7 ug/kg	< 22.6 ug/kg	< 22.6 ug/kg	< 21.0 ug/kg
Bromobenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Bromochloromethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Bromodichloromethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Bromoform	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
Bromomethane	< 618 ug/kg	< 564 ug/kg	< 564 ug/kg	< 524 * ug/kg
Butyl benzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Butylbenzene, sec	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Butylbenzene, tert	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Carbon tetrachloride	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Chlorobenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Chlorodibromomethane	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Chloroethane	< 618 ug/kg	< 564 * ug/kg	< 564 * ug/kg	< 524 ug/kg
Chloroform	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Chloromethane	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
Chlorotoluene, o	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Chlorotoluene, p	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Cumene (isopropyl benzene)	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Cymene p- (Toluene isopropyl p-)	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Dibromomethane (methylene bromide)	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Dichlorodifluoromethane (CFC-12)	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
Dichlorofluoromethane (CFC-21)	< 618 ug/kg	< 564 ug/kg	< 564 ug/kg	< 524 ug/kg
Ethyl benzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Ethyl ether	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
Hexachlorobutadiene	< 309 ug/kg	< 282 ug/kg	< 282 ug/kg	< 262 ug/kg
Methyl ethyl ketone	< 309 ug/kg	< 282 ug/kg	< 282 ug/kg	< 262 ug/kg
Methyl isobutyl ketone	< 309 ug/kg	< 282 ug/kg	< 282 ug/kg	< 262 ug/kg
Methyl tertiary butyl ether (MTBE)	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Methylene chloride	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
Naphthalene	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
Propylbenzene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Styrene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Tetrachloroethylene	< 61.8 ug/kg	< 56.4 ug/kg	95.1 ug/kg	< 52.4 ug/kg
Tetrahydrofuran	< 2470 ug/kg	< 2260 ug/kg	< 2260 ug/kg	< 2100 ug/kg
Toluene	< 61.8 ug/kg	< 56.4 ug/kg	< 56.4 ug/kg	< 52.4 ug/kg
Trichlorofluoromethane	< 247 ug/kg	< 226 * ug/kg	< 226 * ug/kg	< 210 ug/kg
Trichlorotrifluoroethane (Freon 113)	< 247 ug/kg	< 226 ug/kg	< 226 ug/kg	< 210 ug/kg
Vinyl chloride	< 24.7 ug/kg	< 22.6 ug/kg	< 22.6 ug/kg	< 21.0 ug/kg
Xylene, total	< 185 ug/kg	< 169 ug/kg	< 169 ug/kg	< 157 ug/kg

Data Footnotes and Qualifiers

Footnote	
--	Not analyzed/not available.
<	Less than
N	Sample Type: Normal
FD	Sample Type: Field Duplicate
Qualifier	
e	Estimated value, exceeded the instrument calibration range.
h	EPA recommended sample preservation, extraction or analysis holding time was exceeded.
j	Estimated detected value. The reported value is less than the stated laboratory quantitation limit but greater the laboratory method detection limit.
*	Estimated value, QA/QC criteria not met.

Table 6

Groundwater Sampling Summary
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Study Area	Sample Location	Screen Interval (feet bgs)	Screened at		Sampled from		
			Water Table	Base of Glacial Drift	Temporary Well ¹	Glacial Drift Well ²	Sentinel Well ³
Site	DP-060	17.5-20.5	X		X		
	DP-060	51.25-53.25		X	X		
	DP-061	16.4-20.4	X		X		
	DP-061	52-54		X	X		
	DP-062	17-21	X		X		
	DP-062	55-57		X	X		
	DP-063	17-21	X		X		
	DP-063	47-49		X	X		
	DP-064	19-23	X		X		
	DP-064	26-28		X	X		
	DP-064	52.5-54.5		X	X		
	DP-065	20-24	X		X		
	DP-065	41-43		X	X		
	DP-065	48-50		X	X		
	DP-066	18-22	X		X		
	DP-066	36.5-38.5		X	X		
	DP-066	50-52		X	X		
	DP-067	17.6-21.6	X		X		
	DP-067	42-44		X	X		
	DP-067	51.7-53.7		X	X		
	DP-068	17.6-21.6	X		X		
	DP-068	36-38		X	X		
	DP-069	17.3-21.3	X		X		
	DP-069	33-35		X	X		
	DP-070	17-21	X		X		
	DP-070	29-31		X	X		
	DP-070	35-37		X	X		
	DP-071	16.8-20.8	X		X		
	DP-071	33-35		X	X		
	308GS	14.5-24.5	X			X	
	308GD	51-56		X		X	
	311GS	14-24	X			X	
	311GD	36.5-41.5		X		X	
	SMW1	14-24	X				X
	109	18-42	X			X	
	B	16.6-26.6	X			X	
Northeast Area	DP-072	14.3-18.3	X		X		
	DP-072	36-38		X	X		
	DP-073	13-17	X		X		
	DP-073	25-27		X	X		
	DP-073	38.3-40.3		X	X		
	DP-074	13.5-17.5	X		X		
	DP-074	44.5-46.5		X	X		
	DP-075	14-18	X		X		
	DP-075	35-37		X	X		
	DP-075	44-46		X	X		

Table 6

Groundwater Sampling Summary
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Study Area	Sample Location	Screen Interval (feet bgs)	Screened at		Sampled from		
			Water Table	Base of Glacial Drift	Temporary Well ¹	Glacial Drift Well ²	Sentinel Well ³
Northeast Area	DP-076	13.8-17.8	X		X		
	DP-076	42-44		X	X		
	301	17.5-21.5	X		X		
	301	48-50		X	X		
	301GS	14.5 -24.5	X			X	
	301GD	45-50		X		X	
	302GS	12.5-22.5	X			X	
	303	15.5-19.5	X		X		
	303	32-34		X	X		
	303GS	12.5-22.5	X			X	
	304	13.5-17.5	X		X		
	304	49-51		X	X		
	304GS	10.5-20.5	X			X	
	305	15.5-19.5	X		X		
	305	52-54		X	X		
	305GS	12.5-22.5	X			X	
	305GD	49.5-54.5		X		X	
	306GS	11-21	X			X	
	306GD	31-36		X		X	
	307GS	11-21	X			X	
	307GD	47.1-52.1		X		X	
	310GS	9.5-19.5	X			X	
Central Area	309GS	12.5-22.5	X			X	X
	309GD	42-47		X		X	
	312GS	13-23	X			X	X
	312GD	36.5-41.5		X		X	
	313GS	13-23	X			X	
	313GD	27.5-32.5		X		X	
	314GS	13-23	X			X	
	314GD	32.5-37.5		X		X	
	315GS	15-25	X			X	
	315GD	31.5-36.5		X		X	
	SMW3	11.8-21.8	X				X
	SMW6	13.2-23.2	X				X
	SMW10	15-25	X				X
	SMW16	16-26	X				X
	SMW19	12-22	X				X
	SMW22	12.5-22.5	X				X
	SMW25	13-23	X				X
	2	16-26	X			X	
	110	17-37	X			X	
	111	20-40	X			X	X
	112	16-36	X			X	X
	113	20-40	X			X	X
	Q	13.9-23.9	X			X	
	S	14.5-24.5	X			X	
	T	12-22	X			X	
	X	9-19	X			X	

Table 6

Groundwater Sampling Summary
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Study Area	Sample Location	Screen Interval (feet bgs)	Screened at		Sampled from		
			Water Table	Base of Glacial Drift	Temporary Well ¹	Glacial Drift Well ²	Sentinel Well ³
Southwest Area	DP-077	13-17	X		X		
	DP-077	34-36		X	X		
	316GS	5.5-15.5	X			X	
	316GD	34-39		X		X	
	317GS	11-21	X			X	
	318GS	9-19	X			X	
	V	15.6-25.6	X			X	
	W	7.1-17.1	X			X	

Notes:

1 - Groundwater sample collected from temporary well installed in soil boring during the investigation.

2 - Groundwater samples were collected from glacial drift monitoring wells in December 2014 and March 2015.

3 - Groundwater samples were collected from sentinel monitoring wells in December 2014 and March 2015. Additional groundwater samples will be collected during the second and third quarters of 2015.

bgs - below ground surface

Groundwater Sampling Analytical Results - Temporary Wells
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Area Location Date Depth Sample Type	Site																						
	DP-060 GW 10/14/2014 17.5 - 20.5 ft	DP-060 GW 10/14/2014 51.25 - 53.25 ft	DP-061 GW 10/14/2014 16.4 - 20.4 ft	DP-061 GW 10/15/2014 52 - 54 ft	DP-062 GW 10/15/2014		DP-062 GW 10/15/2014 55 - 57 ft	DP-063 GW 10/16/2014 17 - 21 ft	DP-063 GW 10/16/2014 47 - 49 ft	DP-064 GW 10/13/2014 19 - 23 ft	DP-064 GW 10/13/2014 26 - 28 ft	DP-064 GW 10/13/2014 52.5 - 54.5 ft	DP-065 GW 10/16/2014 20 - 24 ft	DP-065 GW 10/16/2014 41 - 43 ft	DP-065 GW 10/16/2014 48 - 50 ft	DP-066 GW 10/17/2014 18 - 22 ft	DP-066 GW 10/17/2014		DP-066 GW 10/17/2014 50 - 52 ft	DP-067 GW 10/20/2014 17.6 - 21.6 ft	DP-067 GW 10/20/2014 42 - 44 ft	DP-067 GW 10/20/2014 51.7 - 53.7 ft	
	N	N	N	N	17 - 21 ft	17 - 21 ft	N	N	N	N	N	N	N	N	N	N	N	36.5 - 38.5 ft	36.5 - 38.5 ft	N	N	N	
					N	FD												N	FD				
VOCS																							
Trichloroethylene	9.6 ug/l	5.1 ug/l	16.4 ug/l	5.4 ug/l	24.1 ug/l	22.2 ug/l	6.9 ug/l	117 ug/l	58.3 ug/l	149 ug/l	246 ug/l	629 ug/l	48.1 ug/l	191 ug/l	331 ug/l	52.7 ug/l	139 ug/l	135 ug/l	73.2 ug/l	26.5 ug/l	407 ug/l	509 ug/l	
1,1,1,2-Tetrachloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,1,1-Trichloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,1,2,2-Tetrachloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,1,2-Trichloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,1-Dichloro-1-propene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,1-Dichloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	1.2 ug/l	< 1.0 ug/l	1.3 ug/l	1.7 ug/l	3.5 ug/l	< 1.0 ug/l	1.2 ug/l	2.3 ug/l	< 1.0 ug/l	1.1 ug/l	1.2 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l
1,1-Dichloroethylene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,2,3-Trichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,2,3-Trichloropropane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	
1,2,4-Trichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,2,4-Trimethylbenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,2-Dibromo-3-chloropropane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	
1,2-Dibromomethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,2-Dichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,2-Dichloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,2-Dichloroethylene, cis	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	24.0 ug/l	5.7 ug/l	24.8 ug/l	47.4 ug/l	222 ug/l	6.5 ug/l	20.5 ug/l	99.3 ug/l	2.7 ug/l	13.1 ug/l	12.6 ug/l	13.5 ug/l	1.2 ug/l	138 ug/l	155 ug/l	
1,2-Dichloroethylene, trans	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	1.1 ug/l	< 1.0 ug/l	1.1 ug/l	2.5 ug/l	6.0 ug/l	< 1.0 ug/l	1.4 ug/l	2.9 ug/l	< 1.0 ug/l	< 1.0 ug/l	1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,2-Dichloropropane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	
1,3,5-Trimethylbenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,3-Dichloro-1-propene, cis	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	
1,3-Dichloro-1-propene, trans	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	
1,3-Dichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,3-Dichloropropane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
1,4-Dichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
2,2-Dichloropropane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	
Acetone	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 100 ug/l	< 100 ug/l	
Allyl Chloride	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	
Benzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
Bromobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
Bromochloromethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
Bromodichloromethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
Bromoform	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	
Bromomethane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 * ug/l	< 4.0 * ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 * ug/l	< 4.0 * ug/l	< 4.0 * ug/l	< 4.0 ug/l	< 4.0 * ug/l	< 4.0 * ug/l	< 4.0 * ug/l	< 4.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	
Butyl benzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
Butylbenzene, sec	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
Butylbenzene, tert	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	
Carbon tetrachloride	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	<								

Groundwater Sampling Analytical Results - Temporary Wells
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Note: Detected compound results shown in **bold**

Table 7

Groundwater Sampling Analytical Results - Temporary Well
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

[illegible]

Data Footnotes and Qualifiers

Footnote	
--	Not analyzed/not available.
<	Less than
N	Sample Type: Normal
FD	Sample Type: Field Duplicate
Qualifier	
e	Estimated value, exceeded the instrument calibration range.
h	EPA recommended sample preservation, extraction or analysis holding time was exceeded.
j	Estimated detected value. The reported value is less than the stated laboratory quantitation limit but greater the laboratory method detection limit.
*	Estimated value, QA/QC criteria not met.

Groundwater Sampling Analytical Results - Monitoring Wells
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Note: Detected compound results shown in **bold**

Groundwater Sampling Analytical Results - Monitoring Wells
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Note: Detected compound results shown in **bold**

Groundwater Sampling Analytical Results - Monitoring Wells
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Note: Detected compound results shown in **bold**

Groundwater Sampling Analytical Results - Monitoring Wells
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Note: Detected compound results shown in **bold**

Table 8

Groundwater Sampling Analytical Results - Monitoring Wells

Vapor Intrusion Pathway Investigation Report

East Hennepin Avenue Site

Minneapolis, Minnesota

Area Location Date Sample Type	Southwest Area							
	317GS 3/03/2015	318GS 12/08/2014	318GS 3/03/2015	V 12/09/2014	V 3/03/2015	W 12/09/2014		W 3/03/2015
	N	N	N	N	N	N	FD	N
VOCs								
Trichloroethylene	< 0.40 ug/l	< 0.40 ug/l	< 0.40 ug/l	21.3 ug/l	29.2 ug/l	6.7 ug/l	6.7 ug/l	8.4 ug/l
1,1,1,2-Tetrachloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,1,1-Trichloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,1,2,2-Tetrachloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,1,2-Trichloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,1-Dichloro-1-propene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,1-Dichloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,1-Dichloroethylene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,2,3-Trichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,2,3-Trichloropropane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
1,2,4-Trichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,2,4-Trimethylbenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,2-Dibromo-3-chloropropane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
1,2-Dibromoethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,2-Dichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,2-Dichloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,2-Dichloroethylene, cis	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	1.9 ug/l	47.1 ug/l	48.3 ug/l	80.4 ug/l
1,2-Dichloroethylene, trans	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	2.7 ug/l	2.5 ug/l	3.8 ug/l
1,2-Dichloropropane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
1,3,5-Trimethylbenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,3-Dichloro-1-propene, cis	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
1,3-Dichloro-1-propene, trans	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
1,3-Dichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,3-Dichloropropane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
1,4-Dichlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
2,2-Dichloropropane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
Acetone	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l	< 20.0 ug/l
Allyl Chloride	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
Benzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Bromobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Bromochloromethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Bromodichloromethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Bromoform	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
Bromomethane	< 4.0 * ug/l	< 4.0 * ug/l	< 4.0 * ug/l	< 4.0 ug/l	< 4.0 * ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 * ug/l
Butyl benzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Butylbenzene, sec	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Butylbenzene, tert	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Carbon tetrachloride	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Chlorobenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Chlorodibromomethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Chloroethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Chloroform	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Chloromethane	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
Chlorotoluene, o	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Chlorotoluene, p	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Cumene (isopropyl benzene)	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Cymene p- (Toluene isopropyl p-)	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Dibromomethane (methylene bromide)	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
Dichlorodifluoromethane (CFC-12)	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Dichlorofluoromethane (CFC-21)	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Ethyl benzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Ethyl ether	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
Hexachlorobutadiene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Methyl ethyl ketone	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l
Methyl isobutyl ketone	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l	< 5.0 ug/l
Methyl tertiary butyl ether (MTBE)	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Methylene chloride	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
Naphthalene	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l	< 4.0 ug/l
Propylbenzene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Styrene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Tetrachloroethylene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Tetrahydrofuran	< 10.0 ug/l	< 10.0 ug/l	< 10.0 ug/l	< 10.0 ug/l	< 10.0 ug/l	< 10.0 ug/l	< 10.0 ug/l	< 10.0 ug/l
Toluene	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Trichlorofluoromethane	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Trichlorotrifluoroethane (Freon 113)	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l	< 1.0 ug/l
Vinyl chloride	< 0.40 ug/l	< 0.40 ug/l	< 0.40 ug/l	< 0.40 ug/l	< 0.40 ug/l	< 0.40 ug/l	< 0.40 ug/l	0.58 ug/l
Xylene, total	< 3.0 ug/l	< 3.0 ug/l	< 3.0 ug/l	< 3.0 ug/l	< 3.0 ug/l	< 3.0 ug/l	< 3.0 ug/l	< 3.0 ug/l

Data Footnotes and Qualifiers

Footnote	
--	Not analyzed/not available.
<	Less than
N	Sample Type: Normal
FD	Sample Type: Field Duplicate
Qualifier	
e	Estimated value, exceeded the instrument calibration range.
h	EPA recommended sample preservation, extraction or analysis holding time was exceeded.
j	Estimated detected value. The reported value is less than the stated laboratory quantitation limit but greater the laboratory method detection limit.
*	Estimated value, QA/QC criteria not met.

Table 9

Groundwater Elevations
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Study Area	Well ID	Monitoring Well Network		Measurement Date	Top of Casing Elevation (feet MSL) ¹	Depth to Water (feet)	Water Level Elevation (feet MSL) ¹
		Glacial Drift	Sentinel				
Site	308GS	X		12/16/2014	864.23	20.63	843.60
				2/27/2015	864.23	20.81	843.42
	308GD	X		12/16/2014	864.68	21.18	843.50
				2/27/2015	864.68	21.27	843.41
	311GS	X		12/17/2014	860.18	22.49	837.69
				2/27/2015	860.18	22.91	837.27
	311GD	X		12/17/2014	860.34	22.63	837.71
				2/27/2015	860.34	22.76	837.58
	SMW1		X	12/12/2014	861.74	20.35	841.39
				2/27/2015	861.74	20.53	841.21
Northeast Area	301GS	X		12/18/2014	867.81	21.10	846.71
				2/27/2015	867.81	21.44	846.37
	301GD	X		12/18/2014	868.27	21.59	846.68
				2/27/2015	868.27	21.95	846.32
	302GS	X		12/22/2014	864.04	18.66	845.38
				2/27/2015	864.04	18.89	845.15
	303GS	X		12/19/2014	865.80	19.35	846.45
				2/27/2015	865.80	19.58	846.22
	304GS	X		12/19/2014	863.47	17.11	846.36
				2/27/2015	863.47	17.48	845.99
	305GS	X		12/22/2014	864.29	19.42	844.87
				2/27/2015	864.29	19.55	844.74
	305GD	X		12/22/2014	864.25	19.58	844.67
				2/27/2015	864.25	19.65	844.60
	306GS	X		12/18/2014	862.45	17.54	844.91
				2/27/2015	862.45	17.72	844.73
	306GD	X		12/18/2014	862.77	17.88	844.89
				2/27/2015	862.77	18.09	844.68
	307GS	X		12/17/2014	863.27	19.22	844.05
				2/27/2015	863.27	19.40	843.87
Central Area	307GD	X		12/17/2014	863.28	19.23	844.05
				2/27/2015	863.28	19.41	843.87
	310GS	X		12/17/2014	861.44	15.87	845.57
				2/27/2015	861.44	16.18	845.26
	309GS	X	X	12/12/2014	863.47	19.12	844.35
				2/27/2015	863.47	19.24	844.23
	309GD	X		12/12/2014	863.55	19.18	844.37
				2/27/2015	863.55	19.28	844.27
	312GS	X	X	12/10/2014	858.28	20.62	837.66
				2/27/2015	858.28	20.63	837.65
	312GD	X		12/10/2014	858.32	20.67	837.65
				2/27/2015	858.32	20.68	837.64
	313GS	X		12/10/2014	853.14	19.36	833.78
				2/27/2015	853.14	19.40	833.74
	313GD	X		12/9/2014	853.12	19.37	833.75
				2/27/2015	853.12	19.41	833.71
	314GS	X		12/23/2014	849.67	19.84	829.83
				2/27/2015	849.67	19.89	829.78
	314GD	X		12/23/2014	850.04	20.25	829.79
				2/27/2015	850.04	20.30	829.74
	315GS	X		12/9/2014	847.94	22.01	825.93
				2/27/2015	847.94	22.08	825.86
	315GD	X		12/9/2014	848.20	22.30	825.90
				2/27/2015	848.20	22.37	825.83
	SMW3		X	12/12/2014	855.44	18.52	836.92
				2/27/2015	855.44	18.59	836.85

Table 9

Groundwater Elevations
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Study Area	Well ID	Monitoring Well Network		Measurement Date	Top of Casing Elevation (feet MSL) ¹	Depth to Water (feet)	Water Level Elevation (feet MSL) ¹
		Glacial Drift	Sentinel				
Central Area	SMW6		X	12/12/2014	852.22	19.35	832.87
				2/27/2015	852.22	19.50	832.72
	SMW10		X	12/16/2014	848.97	21.80	827.17
				2/27/2015	848.97	21.87	827.10
	SMW16		X	12/23/2014	847.78	22.42	825.36
				2/27/2015	847.78	22.66	825.12
	SMW19		X	12/8/2014	849.52	17.86	831.66
				2/27/2015	849.52	17.80	831.72
	SMW22		X	12/22/2014	852.37	19.35	833.02
				2/27/2015	852.37	19.38	832.99
	SMW25		X	12/12/2014	856.52	19.61	836.91
				2/27/2015	856.52	19.61	836.91
	2	X		12/11/2014	857.07	20.12	836.95
				2/27/2015	857.07	20.18	836.89
	110	X		12/10/2014	852.19	16.10	836.09
				2/27/2015	852.19	18.14	834.05
	111	X	X	12/8/2014	846.81	21.32	825.49
				2/27/2015	846.81	21.40	825.41
	112	X	X	12/8/2014	841.19	16.03	825.16
				2/27/2015	841.19	16.20	824.99
	113	X	X	12/8/2014	841.09	15.98	825.11
				2/27/2015	841.09	16.17	824.92
	Q	X		12/10/2014	850.22	20.88	829.34
				2/27/2015	850.22	20.82	829.40
	S	X		12/10/2014	848.00	17.56	830.44
				2/27/2015	848.00	17.64	830.36
	T	X		12/16/2014	849.26	16.38	832.88
				2/27/2015	849.26	16.62	832.64
	X	X		12/9/2014	842.68	17.53	825.15
				2/27/2015	842.68	17.74	824.94
Southwest Area	316GS	X		12/9/2014	837.65	15.03	822.62
				2/27/2015	837.65	15.69	821.96
	316GD	X		12/9/2014	837.88	19.46	818.42
				2/27/2015	837.88	20.47	817.41
	317GS	X		12/8/2014	841.71	18.63	823.08
				2/27/2015	841.71	19.50	822.21
	318GS	X		12/8/2014	837.59	18.55	819.04
				2/27/2015	837.59	19.25	818.34
	V	X		12/9/2014	838.42	20.27	818.15
				2/27/2015	838.42	21.28	817.14
	W	X		12/9/2014	830.63	12.74	817.89
				2/27/2015	830.63	13.61	817.02

Notes:

1 - Elevations are given in NGVD 29.

MSL - mean sea level

Table 10

Soil Gas Sampling Analytical Results
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Area Location Date Depth Sample Type			Site								Central Area										
			DP-070 SG	DP-071 SG	SVP1	SVP1	SVP2	SVP2	SVP30	SVP30	313	314	315	SVP3	SVP3	SVP4	SVP4	SVP5	SVP5	SVP6	SVP6
			10/23/2014	10/31/2014	12/12/2014	3/10/2015	12/11/2014	3/10/2015	12/11/2014	3/10/2015	11/03/2014	12/11/2014	11/12/2014	12/12/2014	3/06/2015	12/11/2014	3/06/2015	12/11/2014	3/06/2015	12/12/2014	3/06/2015
			7.5 ft	8 ft																	
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Parameter	MPCA Industrial 10X ISVs for Vapor Intrusion Risk Evaluation	MPCA Residential 10X ISVs for Vapor Intrusion Risk Evaluation																			
Effective Date	02/17/2015	02/17/2015																			
Exceedance Key	Bold	<u>Underline</u>																			
VOCs																					
Trichloroethylene	60 (3) ug/m3	<u>20 (3) ug/m3</u>	< 6.2 ug/m3	< 0.96 ug/m3	< 0.92 ug/m3	1.1 ug/m3	< 0.96 ug/m3	< 1.0 ug/m3	3.3 ug/m3	1.5 ug/m3	975 ug/m3	371 ug/m3	116 ug/m3	4.8 ug/m3	1.9 ug/m3	< 0.92 ug/m3	< 0.95 ug/m3	2.6 ug/m3	0.97 ug/m3	1.4 ug/m3	< 0.92 ug/m3
1,1,1-Trichloroethane	100000 ug/m3	50000 ug/m3	< 4.8 ug/m3	< 1.9 ug/m3	7.7 ug/m3	3.6 ug/m3	< 1.9 ug/m3	< 1.3 ug/m3	33.3 ug/m3	16.2 ug/m3	2.4 ug/m3	4.8 ug/m3	< 1.9 ug/m3	11.0 ug/m3	7.3 ug/m3	26.3 ug/m3	10.3 ug/m3	12.6 ug/m3	8.0 ug/m3	< 1.9 ug/m3	< 1.2 ug/m3
1,1,2,2-Tetrachloroethane	10 ug/m3	2 ug/m3	< 8.1 ug/m3	< 1.2 ug/m3	< 2.3 ug/m3	< 1.4 ug/m3	< 2.4 ug/m3	< 1.3 ug/m3	< 2.4 ug/m3	< 1.3 ug/m3	< 1.3 ug/m3	< 2.4 ug/m3	< 6.1 ug/m3	< 2.4 ug/m3	< 1.3 ug/m3	< 2.3 ug/m3	< 1.2 ug/m3	< 2.4 ug/m3	< 1.2 ug/m3	< 2.3 ug/m3	< 1.2 ug/m3
1,1,2-Trichloroethane	20 ug/m3	6 ug/m3	< 8.5 ug/m3	< 0.96 ug/m3	< 0.92 ug/m3	< 1.1 ug/m3	< 0.96 ug/m3	< 1.0 ug/m3	< 0.96 ug/m3	< 1.0 ug/m3	< 0.99 ug/m3	< 0.96 ug/m3	< 1.9 ug/m3	< 0.96 ug/m3	< 1.0 ug/m3	< 0.92 ug/m3	< 0.97 ug/m3	< 0.96 ug/m3	< 0.93 ug/m3	< 0.92 ug/m3	< 0.93 ug/m3
1,1-Dichloroethane	10000 ug/m3	5000 ug/m3	< 4.9 ug/m3	7.3 ug/m3	< 1.4 ug/m3	< 1.6 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3
1,1-Dichloroethylene	6000 ug/m3	2000 ug/m3	< 3.6 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.6 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3
1,2,4-Trichlorobenzene	100 ug/m3	40 ug/m3	< 12.7 ug/m3	< 2.6 ug/m3	< 2.5 ug/m3	< 2.9 ug/m3	< 2.6 ug/m3	< 2.7 ug/m3	< 2.6 ug/m3	< 2.7 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 6.6 ug/m3	< 2.6 ug/m3	< 2.7 ug/m3	< 2.5 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3
1,2,4-Trimethylbenzene	200 ug/m3	<u>70 ug/m3</u>	< 4.2 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.9 ug/m3	< 1.7 ug/m3	< 1.9 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	21.4 ug/m3	5.7 ug/m3	10.4 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.7 ug/m3	19.9 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	1.9 ug/m3	< 1.7 ug/m3
1,2-Dibromoethane	0.6 ug/m3	0.2 ug/m3	< 8.1 ug/m3	< 2.7 ug/m3	< 2.6 ug/m3	< 3.0 ug/m3	< 2.7 ug/m3	< 2.9 ug/m3	< 2.7 ug/m3	< 2.8 ug/m3	< 2.8 ug/m3	< 2.7 ug/m3	< 2.7 ug/m3	< 2.7 ug/m3	< 2.8 ug/m3	< 2.6 ug/m3	< 2.7 ug/m3	< 2.7 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3
1,2-Dichlorobenzene	6000 ug/m3	2000 ug/m3	< 4.9 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.4 ug/m3	< 2.1 ug/m3	< 2.3 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.2 ug/m3	< 2.1 ug/m3	< 5.3 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.0 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.0 ug/m3	< 2.0 ug/m3
1,2-Dichloroethane	10 ug/m3	<u>4 ug/m3</u>	21.5 ug/m3	17.4 ug/m3	< 0.69 ug/m3	< 0.80 ug/m3	< 0.71 ug/m3	< 0.77 ug/m3	< 0.71 ug/m3	< 0.74 ug/m3	< 0.74 ug/m3	< 0.71 ug/m3	< 1.4 ug/m3	< 0.71 ug/m3	< 0.74 ug/m3	< 0.69 ug/m3	< 0.72 ug/m3	< 0.71 ug/m3	< 0.69 ug/m3	< 0.69 ug/m3	< 0.69 ug/m3
1,2-Dichloroethylene, cis	2000 (3) ug/m3	600 (3) ug/m3	106 ug/m3	7.4 ug/m3	< 1.4 ug/m3	< 3.9 ug/m3	< 1.4 ug/m3	< 3.8 ug/m3	< 1.4 ug/m3	< 3.6 ug/m3	25.4 ug/m3	20.0 ug/m3	2.5 ug/m3	< 1.4 ug/m3	< 3.6 ug/m3	< 1.4 ug/m3	< 3.5 ug/m3	< 1.4 ug/m3	< 3.4 ug/m3	< 1.4 ug/m3	< 3.4 ug/m3
1,2-Dichloroethylene, trans	2000 ug/m3	600 ug/m3	< 5.7 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 3.9 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	2.0 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3
1,2-Dichloropropane	100 ug/m3	40 ug/m3	< 5.3 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.8 ug/m3	< 1.6 ug/m3	< 1.8 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3
1,2-Dichlorotetrafluoroethane	NA	NA	< 8.7 ug/m3	< 2.5 ug/m3	< 2.4 ug/m3	< 2.8 ug/m3	< 2.5 ug/m3	< 2.7 ug/m3	< 2.5 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.6 ug/m3	< 2.4 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.4 ug/m3	< 2.4 ug/m3	< 2.4 ug/m3
1,3,5-Trimethylbenzene	200 ug/m3	<u>60 ug/m3</u>	< 7.2 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.9 ug/m3	< 1.7 ug/m3	< 1.9 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	5.8 ug/m3	1.9 ug/m3	5.0 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.7 ug/m3	5.4 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3
1,3-Butadiene	20 (3) ug/m3	2 (3) ug/m3	< 3.0 ug/m3	< 0.78 ug/m3	< 0.76 ug/m3	< 0.87 ug/m3	< 0.78 ug/m3	< 0.84 ug/m3	< 0.78 ug/m3	< 0.81 ug/m3	< 0.81 ug/m3	< 0.78 ug/m3	< 2.0 ug/m3	< 0.78 ug/m3	< 0.81 ug/m3	< 0.76 ug/m3	< 0.78 ug/m3	< 0.78 ug/m3	< 0.76 ug/m3	< 0.76 ug/m3	< 0.76 ug/m3
1,3-Dichloro-1-propene, cis	600 (1) ug/m3	200 (1) ug/m3	< 4.7 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	< 1.8 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 4.0 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.5 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3
1,3-Dichloro-1-propene, trans	600 (1) ug/m3	200 (1) ug/m3	< 5.3 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	< 1.8 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 4.0 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.5 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3
1,3-Dichlorobenzene	NA	NA	< 8.1 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.4 ug/m3	< 2.1 ug/m3	< 2.3 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.2 ug/m3	< 2.1 ug/m3	< 5.3 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.0 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.0 ug/m3	< 2.0 ug/m3
1,4-Dichlorobenzene	2000 ug/m3	600 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.0 ug/m3	< 2.4 ug/m3	< 2.1 ug/m3	< 2.3 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.2 ug/m3	< 2.1 ug/m3	< 5.3 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.0 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.0 ug/m3	< 2.0 ug/m3
2-Hexanone	NA	NA	< 7.4 ug/m3	< 1.4 ug/m3	2.2 ug/m3	< 5.8 ug/m3	< 1.4 ug/m3	< 1.6 ug/m3	1.9 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	3.4 ug/m3	3.6 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3
4-Ethyltoluene	NA	NA	< 6.1 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.9 ug/m3	< 1.7 ug/m3	< 1.9 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	15.0 ug/m3	2.2 ug/m3	6.3 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.7 ug/m3	6.4 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3
Acetone	870000 ug/m3	310000 ug/m3	255 ug/m3	358 ug/m3	57.6 ug/m3	102 ug/m3	50.7 ug/m3	92.1 ug/m3	58.3 ug/m3	89.8 ug/m3	168 ug/m3	120 ug/m3	68.4 ug/m3	107 ug/m3	82.4 ug/m3	52.4 ug/m3	58.6 ug/m3	114 ug/m3	63.5 ug/m3	73.9 ug/m3	

Soil Gas Sampling Analytical Results
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Note: Detected compound results shown in **bold**

Table 10

Soil Gas Sampling Analytical Results
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Area Location Date Depth Sample Type			Central Area																			
			SVP17	SVP17	SVP18	SVP18	SVP19	SVP19	SVP20	SVP20	SVP21	SVP21	SVP22	SVP22	SVP23	SVP23	SVP24	SVP24	SVP25	SVP25	SVP26	SVP26
			12/10/2014	3/05/2015	12/19/2014	3/05/2015	12/08/2014	3/05/2015	12/10/2014	3/05/2015	12/16/2014	3/05/2015	12/22/2014	3/05/2015	12/11/2014	3/06/2015	12/11/2014	3/06/2015	12/12/2014	3/06/2015	12/11/2014	3/09/2015
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	MPCA Industrial 10X ISVs for Vapor Intrusion Risk Evaluation	MPCA Residential 10X ISVs for Vapor Intrusion Risk Evaluation																				
Effective Date	02/17/2015	02/17/2015																				
Exceedance Key	Bold	<u>Underline</u>																				
VOCs																						
Trichloroethylene	60 (3) ug/m3	<u>20 (3) ug/m3</u>	3.2 ug/m3	< 0.92 ug/m3	< 0.99 ug/m3	< 0.86 ug/m3	< 1.5 ug/m3	< 0.95 ug/m3	< 0.96 ug/m3	< 0.95 ug/m3	1.3 ug/m3	1.2 ug/m3	<u>36.9 ug/m3</u>	9.1 ug/m3	< 0.99 ug/m3	< 0.98 ug/m3	2.0 ug/m3	1.0 ug/m3	828 ug/m3	667 ug/m3	< 0.92 ug/m3	< 0.95 ug/m3
1,1,1-Trichloroethane	100000 ug/m3	50000 ug/m3	< 1.9 ug/m3	< 1.2 ug/m3	< 2.0 ug/m3	< 1.1 ug/m3	< 2.9 ug/m3	< 1.2 ug/m3	< 1.9 ug/m3	< 1.2 ug/m3	< 2.0 ug/m3	< 1.3 ug/m3	< 1.9 ug/m3	< 1.2 ug/m3	3.1 ug/m3	< 1.3 ug/m3	144 ug/m3	71.0 ug/m3	189 ug/m3	111 ug/m3	< 1.9 ug/m3	< 1.2 ug/m3
1,1,2,2-Tetrachloroethane	10 ug/m3	2 ug/m3	< 1.2 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3	< 1.1 ug/m3	< 1.8 ug/m3	< 1.2 ug/m3	< 1.2 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3	< 1.3 ug/m3	< 1.2 ug/m3	< 1.2 ug/m3	< 2.5 ug/m3	< 1.3 ug/m3	< 2.4 ug/m3	< 1.2 ug/m3	< 2.3 ug/m3	< 1.2 ug/m3	< 2.3 ug/m3	
1,1,2-Trichloroethane	20 ug/m3	6 ug/m3	< 0.92 ug/m3	< 0.93 ug/m3	< 0.99 ug/m3	< 0.87 ug/m3	< 1.5 ug/m3	< 0.97 ug/m3	< 0.96 ug/m3	< 0.97 ug/m3	< 0.99 ug/m3	< 1.0 ug/m3	< 0.96 ug/m3	< 0.97 ug/m3	< 0.99 ug/m3	< 1.0 ug/m3	< 0.96 ug/m3	< 0.97 ug/m3	< 0.92 ug/m3	< 0.97 ug/m3	< 0.92 ug/m3	
1,1-Dichloroethane	10000 ug/m3	5000 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.3 ug/m3	< 2.2 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	1.7 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	
1,1-Dichloroethylene	6000 ug/m3	2000 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.3 ug/m3	< 2.1 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	
1,2,4-Trichlorobenzene	100 ug/m3	40 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.7 ug/m3	< 2.4 ug/m3	< 4.0 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.7 ug/m3	< 2.7 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.5 ug/m3	< 2.6 ug/m3	< 2.5 ug/m3	
1,2,4-Trimethylbenzene	200 ug/m3	<u>70 ug/m3</u>	2.5 ug/m3	2.7 ug/m3	< 1.8 ug/m3	< 1.6 ug/m3	< 2.6 ug/m3	< 1.7 ug/m3	2.7 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.8 ug/m3	2.5 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	3.3 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	2.9 ug/m3	2.7 ug/m3	< 1.7 ug/m3	
1,2-Dibromoethane	0.6 ug/m3	0.2 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.8 ug/m3	< 2.4 ug/m3	< 4.1 ug/m3	< 2.7 ug/m3	< 2.7 ug/m3	< 2.7 ug/m3	< 2.8 ug/m3	< 2.8 ug/m3	< 2.7 ug/m3	< 2.7 ug/m3	< 2.8 ug/m3	< 2.8 ug/m3	< 2.7 ug/m3	< 2.7 ug/m3	< 2.6 ug/m3	< 2.7 ug/m3	< 2.6 ug/m3	
1,2-Dichlorobenzene	6000 ug/m3	2000 ug/m3	< 2.0 ug/m3	< 2.0 ug/m3	< 2.2 ug/m3	< 1.9 ug/m3	40.2 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.2 ug/m3	9.9 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.2 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	
1,2-Dichloroethane	10 ug/m3	<u>4 ug/m3</u>	< 0.69 ug/m3	< 0.69 ug/m3	< 0.74 ug/m3	< 0.65 ug/m3	< 1.1 ug/m3	< 0.72 ug/m3	< 0.71 ug/m3	< 0.72 ug/m3	< 0.74 ug/m3	< 0.74 ug/m3	< 0.71 ug/m3	< 0.72 ug/m3	< 0.74 ug/m3	< 0.74 ug/m3	< 0.71 ug/m3	< 0.72 ug/m3	< 0.69 ug/m3	< 0.72 ug/m3	< 0.69 ug/m3	
1,2-Dichloroethylene, cis	2000 (3) ug/m3	600 (3) ug/m3	< 1.4 ug/m3	< 3.4 ug/m3	< 1.5 ug/m3	< 3.2 ug/m3	< 2.1 ug/m3	< 3.5 ug/m3	< 1.4 ug/m3	< 3.5 ug/m3	< 1.5 ug/m3	< 3.6 ug/m3	< 3.5 ug/m3	< 3.5 ug/m3	< 1.5 ug/m3	< 3.6 ug/m3	< 1.4 ug/m3	< 3.5 ug/m3	51.2 ug/m3	36.1 ug/m3	< 1.4 ug/m3	
1,2-Dichloroethylene, trans	2000 ug/m3	600 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.3 ug/m3	< 2.1 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	4.4 ug/m3	2.6 ug/m3	< 1.4 ug/m3	
1,2-Dichloropropane	100 ug/m3	40 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.5 ug/m3	< 2.5 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	
1,2-Dichlorotetrafluoroethane	NA	NA	< 2.4 ug/m3	< 2.4 ug/m3	< 2.6 ug/m3	< 2.2 ug/m3	< 3.7 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.6 ug/m3	< 2.6 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.4 ug/m3	< 2.5 ug/m3	< 2.4 ug/m3	
1,3,5-Trimethylbenzene	200 ug/m3	<u>60 ug/m3</u>	< 1.7 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.6 ug/m3	< 2.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.8 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.8 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	
1,3-Butadiene	20 (3) ug/m3	2 (3) ug/m3	< 0.76 ug/m3	< 0.76 ug/m3	< 0.81 ug/m3	< 0.71 ug/m3	< 1.2 ug/m3	< 0.78 ug/m3	< 0.78 ug/m3	< 0.78 ug/m3	< 0.81 ug/m3	< 0.81 ug/m3	< 0.78 ug/m3	< 0.78 ug/m3	< 0.81 ug/m3	< 0.81 ug/m3	< 0.78 ug/m3	< 0.78 ug/m3	< 0.76 ug/m3	< 0.78 ug/m3	< 0.76 ug/m3	
1,3-Dichloro-1-propene, cis	600 (1) ug/m3	200 (1) ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.7 ug/m3	< 1.4 ug/m3	< 2.4 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	
1,3-Dichloro-1-propene, trans	600 (1) ug/m3	200 (1) ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.7 ug/m3	< 1.4 ug/m3	< 2.4 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	
1,3-Dichlorobenzene	NA	NA	< 2.0 ug/m3	< 2.0 ug/m3	< 2.2 ug/m3	< 1.9 ug/m3	< 3.2 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.2 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.2 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	
1,4-Dichlorobenzene	2000 ug/m3	600 ug/m3	< 2.0 ug/m3	< 2.0 ug/m3	< 2.2 ug/m3	< 1.9 ug/m3	46.2 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.2 ug/m3	13.9 ug/m3	< 2.1 ug/m3	< 2.2 ug/m3	< 2.2 ug/m3	< 2.1 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	
2-Hexanone	NA	NA	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.3 ug/m3	< 2.2 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	2.3 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	
4-Ethyltoluene	NA	NA	< 1.7 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.6 ug/m3	< 2.6 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.8 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.8 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	
Acetone	87																					

Table 10

Soil Gas Sampling Analytical Results
Vapor Intrusion Pathway Investigation Report
East Hennepin Avenue Site
Minneapolis, Minnesota

Area Location Date Depth Sample Type			Central Area					
			SVP27	SVP27	SVP28	SVP28	SVP29	SVP29
			12/10/2014	3/09/2015	12/12/2014	3/11/2015	12/11/2014	3/10/2015
			N	N	N	N	N	N
Parameter	MPCA Industrial 10X ISVs for Vapor Intrusion Risk Evaluation	MPCA Residential 10X ISVs for Vapor Intrusion Risk Evaluation						
Effective Date	02/17/2015	02/17/2015						
Exceedance Key	Bold	<u>Underline</u>						
VOCs								
Trichloroethylene	60 (3) ug/m3	<u>20 (3) ug/m3</u>	5.4 ug/m3	1.8 ug/m3	17.3 ug/m3	6.2 ug/m3	66.3 ug/m3	<u>38.2 ug/m3</u>
1,1,1-Trichloroethane	100000 ug/m3	50000 ug/m3	< 1.9 ug/m3	< 1.3 ug/m3	< 1.9 ug/m3	< 1.2 ug/m3	< 1.9 ug/m3	< 1.3 ug/m3
1,1,2,2-Tetrachloroethane	10 ug/m3	2 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3	< 2.3 ug/m3	< 1.2 ug/m3	< 2.3 ug/m3	< 1.3 ug/m3
1,1,2-Trichloroethane	20 ug/m3	6 ug/m3	< 0.92 ug/m3	< 1.0 ug/m3	< 0.92 ug/m3	< 0.97 ug/m3	< 0.92 ug/m3	< 1.0 ug/m3
1,1-Dichloroethane	10000 ug/m3	5000 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3
1,1-Dichloroethylene	6000 ug/m3	2000 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3
1,2,4-Trichlorobenzene	100 ug/m3	40 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	< 2.5 ug/m3	4.2 ug/m3	< 2.5 ug/m3	3.1 ug/m3
1,2,4-Trimethylbenzene	200 ug/m3	<u>70 ug/m3</u>	< 1.7 ug/m3	8.4 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	3.1 ug/m3	2.9 ug/m3
1,2-Dibromoethane	0.6 ug/m3	0.2 ug/m3	< 2.6 ug/m3	< 2.9 ug/m3	< 2.6 ug/m3	< 2.7 ug/m3	< 2.6 ug/m3	< 2.9 ug/m3
1,2-Dichlorobenzene	6000 ug/m3	2000 ug/m3	< 2.0 ug/m3	< 2.3 ug/m3	< 2.0 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.3 ug/m3
1,2-Dichloroethane	10 ug/m3	<u>4 ug/m3</u>	< 0.69 ug/m3	< 0.77 ug/m3	< 0.69 ug/m3	< 0.72 ug/m3	< 0.69 ug/m3	< 0.77 ug/m3
1,2-Dichloroethylene, cis	2000 (3) ug/m3	600 (3) ug/m3	< 1.4 ug/m3	< 3.8 ug/m3	< 1.4 ug/m3	< 3.5 ug/m3	< 1.4 ug/m3	< 3.8 ug/m3
1,2-Dichloroethylene, trans	2000 ug/m3	600 ug/m3	< 1.4 ug/m3	< 1.5 ug/m3	< 1.4 ug/m3	< 3.5 ug/m3	< 1.4 ug/m3	< 3.8 ug/m3
1,2-Dichloropropane	100 ug/m3	40 ug/m3	< 1.6 ug/m3	< 1.8 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.8 ug/m3
1,2-Dichlorotetrafluoroethane	NA	NA	< 2.4 ug/m3	< 2.7 ug/m3	< 2.4 ug/m3	< 2.5 ug/m3	< 2.4 ug/m3	< 2.7 ug/m3
1,3,5-Trimethylbenzene	200 ug/m3	<u>60 ug/m3</u>	< 1.7 ug/m3	< 1.9 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.9 ug/m3
1,3-Butadiene	20 (3) ug/m3	2 (3) ug/m3	< 0.76 ug/m3	< 0.84 ug/m3	< 0.76 ug/m3	< 0.78 ug/m3	< 0.76 ug/m3	< 0.84 ug/m3
1,3-Dichloro-1-propene, cis	600 (1) ug/m3	200 (1) ug/m3	< 1.5 ug/m3	< 1.7 ug/m3	< 1.5 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	< 1.7 ug/m3
1,3-Dichloro-1-propene, trans	600 (1) ug/m3	200 (1) ug/m3	< 1.5 ug/m3	< 1.7 ug/m3	< 1.5 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	< 1.7 ug/m3
1,3-Dichlorobenzene	NA	NA	< 2.0 ug/m3	< 2.3 ug/m3	< 2.0 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.3 ug/m3
1,4-Dichlorobenzene	2000 ug/m3	600 ug/m3	< 2.0 ug/m3	< 2.3 ug/m3	< 2.0 ug/m3	< 2.1 ug/m3	< 2.0 ug/m3	< 2.3 ug/m3
2-Hexanone	NA	NA	< 1.4 ug/m3	< 1.6 ug/m3	1.9 ug/m3	< 5.2 ug/m3	< 1.4 ug/m3	< 5.6 ug/m3
4-Ethyltoluene	NA	NA	< 1.7 ug/m3	2.5 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.7 ug/m3	< 1.9 ug/m3
Acetone	870000 ug/m3	310000 ug/m3	31.6 ug/m3	11.9 ug/m3	53.6 ug/m3	< 4.2 ug/m3	19.7 ug/m3	< 4.5 ug/m3
Benzene	130 ug/m3	<u>45 ug/m3</u>	1.3 ug/m3	1.3 ug/m3	1.1 ug/m3	1.6 ug/m3	0.84 ug/m3	1.1 ug/m3
Benzyl chloride	30 ug/m3	10 ug/m3	< 1.8 ug/m3	< 2.0 ug/m3	< 1.8 ug/m3	< 1.8 ug/m3	< 1.8 ug/m3	< 2.0 ug/m3
Bromodichloromethane	NA	NA	< 2.3 ug/m3	< 2.5 ug/m3	< 2.3 ug/m3	< 2.4 ug/m3	< 2.3 ug/m3	< 2.5 ug/m3
Bromoform	300 ug/m3	90 ug/m3	< 3.5 ug/m3	< 3.9 ug/m3	< 3.5 ug/m3	< 3.7 ug/m3	< 3.5 ug/m3	< 3.9 ug/m3
Bromomethane	100 ug/m3	50 ug/m3	< 1.3 ug/m3	< 1.5 ug/m3	< 1.3 ug/m3	< 1.4 ug/m3	< 1.3 ug/m3	< 1.5 ug/m3
Carbon disulfide	20000 ug/m3	7000 ug/m3	1.6 ug/m3	1.2 ug/m3	1.1 ug/m3	1.9 ug/m3	2.5 ug/m3	< 1.2 ug/m3
Carbon tetrachloride	20 ug/m3	<u>7 ug/m3</u>	< 1.1 ug/m3	< 1.2 ug/m3	< 1.1 ug/m3	< 1.1 ug/m3	< 1.1 ug/m3	< 1.2 ug/m3
Chlorobenzene	1000 ug/m3	500 ug/m3	< 1.6 ug/m3	< 1.8 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.6 ug/m3	< 1.8 ug/m3
Chlorodibromomethane	NA	NA	< 2.9 ug/m3	< 3.2 ug/m3	< 2.9 ug/m3	< 3.0 ug/m3	< 2.9 ug/m3	< 3.2 ug/m3
Chloroethane	300000 ug/m3	100000 ug/m3	< 0.91 ug/m3	< 1.0 ug/m3	< 0.91 ug/m3	< 0.94 ug/m3	< 0.91 ug/m3	< 1.0 ug/m3
Chloroform	3000 ug/m3	1000 ug/m3	< 0.83 ug/m3	< 0.93 ug/m3	3.8 ug/m3	2.4 ug/m3	4.7 ug/m3	4.8 ug/m3
Chloromethane	3000 ug/m3	900 ug/m3	< 0.71 ug/m3	< 0.79 ug/m3	< 0.71 ug/m3	< 0.73 ug/m3	< 0.71 ug/m3	< 0.79 ug/m3
Cyclohexane	200000 ug/m3	60000 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3	< 1.2 ug/m3	< 1.2 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3
Dichlorodifluoromethane (CFC-12)			< 4.2 ug/m3	< 1.9 ug/m3	< 1.7 ug/m3	< 1.8 ug/m3	< 1.7 ug/m3	< 1.9 ug/m3
Ethyl acetate	80000 ug/m3	30000 ug/m3	< 1.2 ug/m3	< 1.4 ug/m3	1.6 ug/m3	< 3.2 ug/m3	< 1.2 ug/m3	< 3.4 ug/m3
Ethyl Alcohol	420000 ug/m3	150000 ug/m3	< 1.6 ug/m3	5.6 ug/m3	14.0 ug/m3	13.4 ug/m3	7.0 ug/m3	< 1.8 ug/m3
Ethyl benzene	30000 ug/m3	10000 ug/m3	< 1.5 ug/m3	1.7 ug/m3	< 1.5 ug/m3	< 7.7 ug/m3	< 1.5 ug/m3	< 8.3 ug/m3
Heptane	NA	NA	< 1.4 ug/m3	< 1.6 ug/m3	2.6 ug/m3	< 1.4 ug/m3	< 1.4 ug/m3	< 1.6 ug/m3
Hexachlorobutadiene	10 ug/m3	5 ug/m3	< 3.7 ug/m3	< 4.1 ug/m3	< 9.1 ug/m3	< 3.8 ug/m3	< 9.1 ug/m3	< 4.1 ug/m3
Hexane (C6)	60000 ug/m3	20000 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3	< 1.2 ug/m3	3.9 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3
Isopropyl alcohol	200000 ug/m3	70000 ug/m3	114 ug/m3	65.0 ug/m3	113 ug/m3	178 ug/m3	73.8 ug/m3	66.1 ug/m3
Methyl ethyl ketone	100000 ug/m3	50000 ug/m3	2.6 ug/m3	2.0 ug/m3	8.3 ug/m3	8.0 ug/m3	2.6 ug/m3	< 6.8 ug/m3
Methyl isobutyl ketone	80000 ug/m3	30000 ug/m3	< 1.4 ug/m3	< 3.9 ug/m3	< 1.4 ug/m3	< 3.6 ug/m3	< 1.4 ug/m3	< 3.9 ug/m3
Methyl tertiary butyl ether (MTBE)	80000 ug/m3	30000 ug/m3	< 1.2 ug/m3	< 1.4 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3	< 1.2 ug/m3	< 1.4 ug/m3
Methylene chloride	600 ug/m3	200 ug/m3	< 5.9 ug/m3	< 6.6 ug/m3	< 5.9 ug/m3	8.8 ug/m3	< 5.9 ug/m3	< 6.6 ug/m3
Naphthalene	300 ug/m3	90 ug/m3	< 4.5 ug/m3	< 4.5 ug/m3	< 4.5 ug/m3	5.8 ug/m3	< 4.5 ug/m3	< 5.0 ug/m3
Propylene	80000 ug/m3	30000 ug/m3	< 0.59 ug/m3	< 1.6 ug/m3	< 0.59 ug/m3	< 1.5 ug/m3	< 0.59 ug/m3	< 1.6 ug/m3
Styrene	30000 ug/m3	10000 ug/m3	< 1.5 ug/m3	< 1.6 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.5 ug/m3	< 1.6 ug/m3
Tetrachloroethylene	300 (3) ug/m3	<u>20 (3) ug/m3</u>	1.7 ug/m3	< 1.3 ug/m3	3.3 ug/m3	< 6.0 ug/m3	14.3 ug/m3	<u>32.4 ug/m3</u>
Tetrahydrofuran	NA	NA	< 1.0 ug/m3	< 1.1 ug/m3	< 1.0 ug/m3	< 5.2 ug/m3	< 1.0 ug/m3	< 5.6 ug/m3
Toluene	100000 ug/m3	50000 ug/m3	1.9 ug/m3	6.2 ug/m3	1.8 ug/m3	5.0 ug/m3	< 1.3 ug/m3	1.8 ug/m3
Trichlorofluoromethane	20000 ug/m3	7000 ug/m3	< 1.9 ug/m3	< 2.1 ug/m3	< 1.9 ug/m3	< 2.0 ug/m3	2.4 ug/m3	9.7 ug/m3
Trichlorotrifluoroethane (Freon 113)	800000 ug/m3	300000 ug/m3	< 2.7 ug/m3	< 3.0 ug/m3	< 2.7 ug/m3	< 2.8 ug/m3	< 2.7 ug/m3	< 3.0 ug/m3
Vinyl acetate	6000 ug/m3	2000 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3	< 1.2 ug/m3	< 1.2 ug/m3	< 1.2 ug/m3	< 1.3 ug/m3
Vinyl chloride	30 ug/m3	10 ug/m3	< 0.44 ug/m3	< 0.49 ug/m3	< 0.44 ug/m3	< 0.45 ug/m3	< 0.44 ug/m3	< 0.49 ug/m3
Xylene, m & p	3000 (2) ug/m3	1000 (2) ug/m3	< 3.0 ug/m3	10.9 ug/m3	< 3.0 ug/m3	< 3.1 ug/m3	< 3.0 ug/m3	< 3.3 ug/m3
Xylene, o	3000 (2) ug/m3	1000 (2) ug/m3	< 1.5 ug/m3	3.5 ug/m3	< 1.5 ug/m3	< 7.7 ug/m3	< 1.5 ug/m3	< 8.3 ug/m3

Note: Detected compound results shown in **bold**

Data Footnotes and Qualifiers

Footnote	
--	Not analyzed/not available.
<	Less than
N	Sample Type: Normal
FD	Sample Type: Field Duplicate
Qualifier	
e	Estimated value, exceeded the instrument calibration range.
h	EPA recommended sample preservation, extraction or analysis holding time was exceeded.
j	Estimated detected value. The reported value is less than the stated laboratory quantitation limit but greater the laboratory method detection limit.
*	Estimated value, QA/QC criteria not met.