



**CONESTOGA-ROVERS  
& ASSOCIATES**

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April 8, 2013

Reference No. 038443-12

Ms. Leslie Patterson  
Remedial Project Manager  
United States Environmental Protection Agency  
Region V  
77 West Jackson Boulevard  
Mail Code SR-6J  
Chicago, Illinois  
60604

Mr. Steve Renninger  
On-Scene Coordinator  
U.S. EPA Region V  
Emergency Response Branch  
26 West Martin Luther King Drive  
Cincinnati, Ohio  
45268

Dear Ms. Patterson and Mr. Renninger:

Re: Progress Report: March 1 through 31, 2013  
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAO) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. SS 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-06-C-852 effective August 15, 2006 for the period of March 1 through 31, 2013.

The next Progress Report for the month of April 2013 will be submitted on or before May 10, 2013.

### **SIGNIFICANT DEVELOPMENTS IN THIS REPORTING PERIOD**

On March 5, 2013, the Respondents provided USEPA, Ohio EPA, and CH2M Hill with a draft OU1 Data Gap and Groundwater Investigation rationale document and figures.

On March 7, 14, and 28, 2013, USEPA, Ohio EPA, Dynamac, and the Respondents participated in conference calls regarding updates to the status of vapor intrusion (VI) mitigation. The Respondents provided meeting minutes for each conference call.

On March 15, 2013, CRA completed visits to eight buildings proposed for VI mitigation. CRA was accompanied by prospective Ohio licensed radon contractors: Environmental Doctor, and The Geiler Company. The purpose of the building visits was to gather information that would



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aid in the design of sub-slab depressurization systems and help the Respondents finalize the contractor selection.

On March 26, and 27, 2013, the Respondents provided Request for Bid (RFB) packages by electronic mail (email) messages to Environmental Doctor and The Geiler Company, respectively. On March 28, 2013, the Respondents provided Addendum 1 to the RFB to both companies.

On March 28, 2013, the Respondents explained the basis for the permit fee amount submitted for a five year permit for access to the southern portion of the Site, including motor vehicle access, to the Miami Conservancy District (MCD) property, in an email to an MCD representative, Roxanne Farrier.

On March 28, 2013, the Respondents provided USEPA with a revised draft VI Mitigation Work Plan for review.

In March 2013, in order to monitor elevated lower explosive limit (LEL) readings, the Respondents collected weekly field screening measurements [methane (CH<sub>4</sub>), carbon dioxide (CO<sub>2</sub>), oxygen (O<sub>2</sub>), LEL, and photo-ionization detector (PID)] from Valley Asphalt Parcel 5054 Building 2 at 1903 Dryden Road, and SIM Trainer Parcel 5173 Building 1, at 2031 Dryden Road. The field screening values for Valley Asphalt Building 2 and SIM Trainer are provided in Tables 1 and 2, respectively. Table 3 presents field screening values measured by the Respondents in USEPA soil gas probe GP-2.

### **SUMMARIES OF ALL ANTICIPATED PROBLEMS AND PLANNED RESOLUTIONS**

- The Respondents will continue to work with USEPA as required to obtain Access Agreements with property owners.

### **PROJECTED WORK FOR THE NEXT REPORTING PERIOD**

- The Respondents and USEPA will continue to work together to complete the OU1 investigation and address vapor intrusion issues at and in the vicinity of the Site.
- The Respondents submitted the draft OU1 Groundwater and Data Gap Investigation Work Plan to USEPA on April 1, 2013. The Respondents and USEPA will discuss the draft OU1 Groundwater and Data Gap Investigation Work Plan in April 2013 and the Respondents will make revisions as necessary.



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- The Respondents and USEPA On-Scene Coordinator will continue to work together to discuss VI mitigation measures and draft a mitigation work plan.

Should you have any questions on the above, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Stephen M. Quigley, P.E.

VC/cb/3

Encl.

cc: (all by pdf) Paul Jack, Castle Bay  
Tim Hoffman, Dinsmore & Shohl  
Robin Lunn, Neal, Gerber & Eisenberg  
Bryan Heath, NCR  
Scott Blackhurst, Kelsey Hayes Company  
Wray Blattner, Thompson Hine  
John Sherrard, Dynamac Corporation

Laura Marshall, Ohio EPA  
Brett Fishwild, CH2M Hill  
Ken Brown, ITW  
Jim Campbell, EMI  
Karen Mignone, Verrill Dana  
Adam Loney, CRA

TABLE 1

VAPOR INTRUSION FIELD MONITORING VALUES  
 PARCEL 5054 BUILDING 2  
 1903 DRYDEN ROAD  
 SOUTH DAYTON DUMP AND LANDFILL SITE  
 MORaine, OHIO

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
Office ambient air, without filter	1/10/2012	--	0.2	21.4	0.1	0.0	NM		
Sub-slab probe B (office) without filter		--	1.2	21.2	0.1	0.0	NM		
Warehouse ambient air, without filter		--	0.5	22.8	0.1	0.0	NM		
Sub-slab probe A (warehouse) without filter		--	50.1	4.6	3.9	7.6	NM		
Warehouse ambient air, without filter	1/19/2012	10:40	0.1	24.1	0.0	0.0	ND(1) <sup>[1]</sup>		
Sub-slab probe A (warehouse) without filter		10:58	72.4	5.7	3.1	5.2	>100		
Sub-slab probe B (office) without filter		11:22	6.2	23.2	0.1	0.0	ND(1) <sup>[1]</sup>		
Warehouse ambient air, without filter	1/24/2012	11:05	0.0	21.9	0.1	0.0	0		
Sub-slab probe A (warehouse) without filter		11:14	52.7	5.7	3.1	5.1	>100		
Office ambient air, without filter		10:50	0.0	23.1	0.1	0.0	0		
Sub-slab probe B (office), without filter		10:57	2.5	21.7	0.1	0.0	0		
Office ambient air, without filter	1/31/2012	10:19	0.0	21.5	0.0	0.0	0		
Sub-slab probe B (office) without filter		11:12	5.8	21.4	0.1	0.0	0		
Warehouse ambient air, without filter		10:30	0.0	21.6	0.0	0.0	0		
Sub-slab probe A (warehouse) without filter		11:17	72.4	1.9	3.8	6.9	>100		
Office ambient air, without filter	2/7/2012	10:14	0.0	21.6	0.0	0.0	0		
Sub-slab probe B (office) without filter		10:54	5.9	21.4	0.1	0.0	0		
Warehouse ambient air, without filter		10:24	0.0	21.8	0.1	0.0	0		
Sub-slab probe A (warehouse) without filter		10:58	67.2	6.3	3.0	6.5	>100		
Office ambient air, without filter	2/15/2012	11:00	0.1	22.0	0.1	0.0	0		
Sub-slab probe B (office) with filter		13:44	7.9	21.1	0.1	0.0	0		
Sub-slab probe B (office) without filter		13:44	7.9	21.1	0.1	0.0	0		
Warehouse ambient air, without filter		11:02	0.0	22.0	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		13:52	52.2	9.8	0.6	3.7	73		
Sub-slab probe A (warehouse) without filter		13:49	52.2	4.8	3.2	6.5	R <sup>[3]</sup>		
Office ambient air, without filter	2/23/2012	14:00	0.0	20.5	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:42	2.3	20.6	0.1	0.0	0		
Sub-slab probe B (office) without filter		14:42	2.3	20.5	0.1	0.0	0		
Warehouse ambient air, without filter		14:10	0.0	21.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:48	19.5	5.5	0.6	5.2	>100		
Sub-slab probe A (warehouse) without filter		14:48	19.5	1.6	4.2	8.2	>100		
Office ambient air, without filter	3/1/2012	12:18	0.0	21.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		12:43	5.2	22.2	0.0	0.0	0		
Sub-slab probe B (office) without filter		12:44	5.2	22.0	0.1	0.0	0		
Warehouse ambient air, without filter		12:21	0.0	21.4	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		12:55	71.9	6.0	1.2	5.4	>100		
Sub-slab probe A (warehouse) without filter		12:58	71.9	15.9	1.7	5.6	90 <sup>[4]</sup>		
Office ambient air, without filter	3/8/2012	7:29	0.0	21.6	0.0	0.0	0		
Sub-slab probe B (office) with filter		9:20	1.4	20.9	0.3	0.0	0		
Warehouse ambient air, without filter		7:35	0.0	21.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		9:45	20.2	1.3	2.4	4.8	96		

TABLE 1

VAPOR INTRUSION FIELD MONITORING VALUES  
 PARCEL 5054 BUILDING 2  
 1903 DRYDEN ROAD  
 SOUTH DAYTON DUMP AND LANDFILL SITE  
 MORaine, OHIO

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
Office ambient air, without filter	3/13/2012	7:29	0.0	21.6	0.0	0.0	0		
Sub-slab probe B (office) with filter		7:31	1.0	21.7	0.1	0.0	0		
Sub-slab probe B (office) without filter		7:31	1.0	21.7	0.1	0.0	0		
Warehouse ambient air, without filter		7:35	0.0	21.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		7:51	50.0	1.8	3.1	6.6	>100		
Sub-slab probe A (warehouse) without filter		7:51	50.0	1.8	5.1	8.8	>100		
Office ambient air, without filter	3/22/2012	12:15	0.0	19.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		12:42	1.1	19.4	0.1	0.0	0		
Sub-slab probe B (office) without filter		12:40	1.1	19.7	0.1	0.0	0		
Warehouse ambient air, without filter		12:20	0.0	19.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		12:38	43.8	1.3	4.5	8.2	>100		
Sub-slab probe A (warehouse) without filter		12:50	43.8	1.2	5.7	10.4	>100		
Office ambient air, without filter	3/27/2012	10:40	0.0	21.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:52	2.2	21.5	0.0	0.0	0		
Sub-slab probe B (office) without filter		10:54	2.2	21.3	0.1	0.0	0		
Warehouse ambient air, without filter		10:43	0.0	21.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:59	29.7	2.7	4.2	9.9	>100		
Sub-slab probe A (warehouse) without filter		11:01	29.7	1.7	6.2	12.0	>100		
Office ambient air, without filter	4/3/2012	12:50	0.0	20.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		13:06	4.4	20.8	0.0	0.0	0		
Sub-slab probe B (office) without filter		13:08	4.4	20.7	0.1	0.0	0		
Warehouse ambient air, without filter		12:59	0.0	21.5	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		13:15	45.1	1.2	2.9	11.1	>100		
Sub-slab probe A (warehouse) without filter		13:16	45.1	1.0	5.7	13.3	>100		
Office ambient air, without filter	4/10/2012	11:30	0.0	21.5	0.0	0.0	0		
Sub-slab probe B (office) with filter		11:47	3.9	20.9	0.0	0.0	0		
Sub-slab probe B (office) without filter		11:48	3.9	20.6	0.1	0.0	0		
Warehouse ambient air, without filter		11:40	0.0	21.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:58	74.8	1.2	3.5	12.7	>100		
Sub-slab probe A (warehouse) without filter		12:01	74.8	1.5	5.4	15.1	>100		
Office ambient air, without filter	4/17/2012	10:55	0.0	20.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		11:09	3.0	20.7	0.4	0.0	0		
Sub-slab probe B (office) without filter		11:10	3.0	20.7	0.1	0.0	0		
Warehouse ambient air, without filter		11:15	0.0	21.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:35	34.6	1.0	4.2	11.9	>100		
Sub-slab probe A (warehouse) without filter		11:42	34.6	0.6	5.5	14.3	>100		
Office ambient air, without filter	4/26/2012	12:20	0.0	21.7	0.0	0.0	0		
Sub-slab probe B (office) with filter		12:36	4.1	20.0	1.6	0.3 <sup>[4]</sup>	10 <sup>[4]</sup>		
Sub-slab probe B (office) without filter		12:38	4.1	20.5	0.1	0.0	ND(1) <sup>[1]</sup>		
Warehouse ambient air, without filter		11:55	0.0	21.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		12:14	20.5	0.7	3.7	13.2	>100		
Sub-slab probe A (warehouse) without filter		12:17	20.5	15.9	1.5	3.2 <sup>[4]</sup>	94 <sup>[4]</sup>		

TABLE 1

VAPOR INTRUSION FIELD MONITORING VALUES  
 PARCEL 5054 BUILDING 2  
 1903 DRYDEN ROAD  
 SOUTH DAYTON DUMP AND LANDFILL SITE  
 MORaine, OHIO

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
Office ambient air, without filter	5/3/2012	9:52	0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		11:08	1.6	20.4	0.2	0.0	0		
Sub-slab probe B (office) without filter		11:10	1.6	20.2	0.1	0.0	0		
Warehouse ambient air, without filter		11:14	0.0	21.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:24	24.4	19.1	0.2	1.3	28		
Sub-slab probe A (warehouse) without filter		11:25	24.4	17.1	1.1	2.2	57		
Office ambient air, without filter	5/10/2012	14:27	0.0	21.0	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:36	1.5	21.0	0.4	0.0	0		
Sub-slab probe B (office) without filter		14:38	1.5	20.6	0.2	0.0	0		
Warehouse ambient air, without filter		14:34	0.0	21.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:48	34.9	1.7	2.9	14	>100		
Sub-slab probe A (warehouse) without filter		14:48	34.9	0.7	5.8	16.7	>100		
Office ambient air, without filter	5/15/2012		0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:15	1.8	18.5	0.4	0.0	0		
Sub-slab probe B (office) without filter		10:15	1.8	18.9	0.0	0.0	0		
Warehouse ambient air, without filter		9:51	0.0	20.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		9:59	22.2	1.3	0.8	13.8	>100		
Sub-slab probe A (warehouse) without filter		9:59	22.2	2.0	5.0	14.5	>100		
Office ambient air, without filter	5/24/2012		0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:35	2.2	20.3	0.2	0.2	4		
Sub-slab probe B (office) without filter		14:41	2.2	20.3	0.3	0.3	4		
Warehouse ambient air, without filter		14:00	0.0	20.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:15	19.7	1.2	4.3	14.8	>100		
Sub-slab probe A (warehouse) without filter		14:22	19.7	0.6	3.6	18.6	>100		
Office ambient air, without filter	5/31/2012	9:40	0.0	20.1	0.0	0.0	0		
Sub-slab probe B (office) with filter		9:53	2.8	20.0	0.0	0.0	0		
Sub-slab probe B (office) without filter		10:06	2.8	19.9	0.3	0.0	0		
Warehouse ambient air, without filter		10:13	0.0	20.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:26	46.4	1.1	5.1	15.3	>100		
Sub-slab probe A (warehouse) without filter		10:50	46.4	1.5	6.5	17.9	>100		
Office ambient air, without filter	6/7/2012	9:22	0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		9:30	4.6	20.1	0.1	0.0	0		
Sub-slab probe B (office) without filter		9:41	4.6	20.4	0.2	0.0	0		
Warehouse ambient air, without filter		9:49	0.0	21.0	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		9:57	82.3	0.4	5.7	16.3	>100		
Sub-slab probe A (warehouse) without filter		10:04	82.3	1.2	6.3	19.8	>100		
Office ambient air, without filter	6/14/2012	9:55	0.0	20.2	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:04	11.5	19.9	0.3	0.0	0		
Sub-slab probe B (office) without filter		10:12	11.5	20.0	0.0	0.0	0		
Warehouse ambient air, without filter		10:19	0.0	21.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:32	35.3	8.2	3.5	11.6	>100		
Sub-slab probe A (warehouse) without filter		10:40	35.3	0.9	6.4	20.3	>100		

**TABLE 1**  
**VAPOR INTRUSION FIELD MONITORING VALUES**  
**PARCEL 5054 BUILDING 2**  
**1903 DRYDEN ROAD**  
**SOUTH DAYTON DUMP AND LANDFILL SITE**  
**MORaine, OHIO**

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
Office ambient air, without filter	6/19/2012	9:48	0.0	19.7	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:05	3.7	19.3	0.0	0.0	0		
Sub-slab probe B (office) without filter		10:07	3.7	19.1	0.4	0.0	0		
Warehouse ambient air, without filter		9:37	0.0	20.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:08	38.1	1.4	5.7	16.1	>100		
Sub-slab probe A (warehouse) without filter		10:09	38.1	1.0	6.5	22.3	>100		
Office ambient air, without filter	6/28/2012	9:13	0.0	20.3	0.1	0.0	0		
Sub-slab probe B (office) with filter		9:29	0.8	19.5	0.1	0.0	0		
Sub-slab probe B (office) without filter		9:29	0.8	19.3	0.4	0.0	0		
Warehouse ambient air, without filter		9:35	0.0	20.4	0.1	0.0	0		
Sub-slab probe A (warehouse) with filter		9:49	59.1	17.8	0.4	3	66		
Sub-slab probe A (warehouse) without filter		9:49	59.1	12.4	2.9	9	>100		
Office ambient air, without filter	7/3/2012	10:35	0.0	19.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:53	2.7	18.2	0.5	0.0	0		
Sub-slab probe B (office) without filter		10:55	2.7	18.1	0.1	0.0	0		
Warehouse ambient air, without filter		10:44	0.0	20.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:00	54.1	1.2	6.6	20.7	>100		
Sub-slab probe A (warehouse) without filter		11:02	54.1	1.1	4.1	17	>100		
Office ambient air, without filter	7/11/2012	14:02	0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:10	10.2	18.0	0.6	0.0	0		
Sub-slab probe B (office) without filter		14:10	10.2	18.1	0.5	0.0	0		
Warehouse ambient air, without filter		14:25	0.0	20.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:33	60.3	1.4	7.1	19.4	>100		
Sub-slab probe A (warehouse) without filter		14:33	60.3	1.3	4.0	15.2	>100		
Office ambient air, without filter	7/19/2012	14:20	0.0	20.7	0.0	0.1 <sup>[4]</sup>	1 <sup>[4]</sup>		
Sub-slab probe B (office) with filter		14:27	25.5	18.9	2.7	0.8 <sup>[4]</sup>	7 <sup>[4]</sup>		
Sub-slab probe B (office) without filter		14:27	25.5	19.0	0.8	0.0	1		
Warehouse ambient air, without filter		14:05	0.0	20.6	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:13	24.2	1.3	7.4	17.3	>100		
Sub-slab probe A (warehouse) without filter		14:13	24.2	1.3	7.1	22.7	>100		
Office ambient air, without filter	7/26/2012	9:08	0.0	20.1	0.0	0.0	0		
Sub-slab probe B (office) with filter		9:20	0.3	18.9	0.1	0.0	0		
Sub-slab probe B (office) without filter		9:20	0.3	18.5	0.8	0.0	0		
Warehouse ambient air, without filter		9:25	0.0	20.2	0.1	0.0	0		
Sub-slab probe A (warehouse) with filter		9:33	1.1	3.3	4.9	15.1	>100		
Sub-slab probe A (warehouse) without filter		9:33	1.1	0.6	7.1	24.7	>100		
Office ambient air, with filter	8/2/2012	8:52	0.6	20.8	0.0	0.0	0	90s	none
Office ambient air, without filter		8:52	0.6	20.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		8:59	63.2	19.8	0.0	0.0	0		
Sub-slab probe B (office) without filter		8:59	63.2	19.4	0.7	0.0	0		
Warehouse ambient air, with filter		9:05	0.0	20.7	0.0	0.0	0		
Warehouse ambient air, without filter		9:05	0.0	20.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		9:14	115.9	6.6	0.8	13.2	>100		
Sub-slab probe A (warehouse) without filter		9:14	115.9	6.2	5.2	15.7	>100		
Office ambient air, with filter	8/7/2012	10:29	--	--	--	--	0	Low 90s	none
Office ambient air, without filter		10:29	0.0	19.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:32	--	--	--	--	0		
Sub-slab probe B (office) without filter		10:32	7.4	18.6	0.9	0.0	0		
Warehouse ambient air, with filter		10:40	--	--	--	--	0		
Warehouse ambient air, without filter		10:40	0.0	20.3	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:45	--	--	--	--	>100		
Sub-slab probe A (warehouse) without filter		10:45	53.7	5.2	5.2	24.6	>100		



**TABLE 1**  
**VAPOR INTRUSION FIELD MONITORING VALUES**  
**PARCEL 5054 BUILDING 2**  
**1903 DRYDEN ROAD**  
**SOUTH DAYTON DUMP AND LANDFILL SITE**  
**MORaine, OHIO**

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
Office ambient air, with filter	8/16/2012	12:53	0.0	20.5	0.0	0.0	0	80 - low 90s	none
Office ambient air, without filter		12:53	0.0	20.4	0.0	0.0	0		
Sub-slab probe B (office) with filter		13:02	7.7	19.3	0.4	0.0	0		
Sub-slab probe B (office) without filter		13:02	7.7	19.2	0.7	0.0	0		
Warehouse ambient air, with filter		12:57	0.0	20.7	0.1	0.0	0		
Warehouse ambient air, without filter		12:57	0.0	20.8	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		13:15	42.5	0.3	5.9	18.7	>100		
Sub-slab probe A (warehouse) without filter		13:15	42.5	1.6	5.9	22.6	>100		
Office ambient air, with filter	8/21/2012	15:00	0.0	20.6	0.1	0.0	0	80s	none
Office ambient air, without filter		15:00	0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		15:16	4.3	19.5	0.0	0.0	0		
Sub-slab probe B (office) without filter		15:16	4.3	20.3	0.2	0.0	0		
Warehouse ambient air, with filter		15:20	0.0	20.8	0.0	0.0	0		
Warehouse ambient air, without filter		15:20	0.0	20.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:40	46.7	15.4	0.6	18.9	>100		
Sub-slab probe A (warehouse) without filter		15:40	46.7	14.7	1.7	23.9	>100		
Office ambient air, without filter	8/30/2012		0.0	20.8	0.0	0.0	0	80s	none
Sub-slab probe B (office) with filter		15:19	0.0	19.3	1.3	0.2 <sup>[4]</sup>	3 <sup>[4]</sup>		
Sub-slab probe B (office) without filter		15:19	0.0	19.3	1.0	0.0	0		
Warehouse ambient air, without filter		14:50	0.0	21.0	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:00	62.7	0.7	6.4	16.8	>100		
Sub-slab probe A (warehouse) without filter		15:00	62.7	0.4	6.0	25.1	>100		
Office ambient air, with filter	9/6/2012		0.0	19.8	0.0	0.0	0	80s	rain daily during week of September 2 to 6
Office ambient air, without filter			0.0	19.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:24	6.2	18.4	0.8	0.0	0		
Sub-slab probe B (office) without filter		14:24	6.2	18.8	0.8	0.0	0		
Warehouse ambient air, with filter			0.0	20.0	0.0	0.0	0		
Warehouse ambient air, without filter			0.0	20.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:47	108.4	0.9	3.7	17.7	>100		
Sub-slab probe A (warehouse) without filter		14:47	108.4	0.4	5.8	24.6	>100		
Office ambient air, with filter	9/13/2012		0.0	20.6	0.0	0.0	0	high 70s - low 80s	none
Office ambient air, without filter			0.0	20.6	0.0	0.0	0		
Sub-slab probe B (office) with filter		11:47	2.3	19.5	0.2	0.0	0		
Sub-slab probe B (office) without filter		11:47	2.3	19.2	0.9	0.0	0		
Warehouse ambient air, with filter			0.0	20.8	0.0	0.0	0		
Warehouse ambient air, without filter			0.0	20.8	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:55	35.2	0.6	4.6	19.0	>100		
Sub-slab probe A (warehouse) without filter		11:55	35.2	0.7	5.6	22.9	>100		
Office ambient air, with filter	9/20/2012	12:51	0.0	20.8	0.0	0.0	0	high 70s - low 80s	none
Office ambient air, without filter		12:51	0.0	20.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		12:57	1.1	19.9	0.8	0.0	0		
Sub-slab probe B (office) without filter		12:57	1.1	19.7	0.9	0.0	0		
Warehouse ambient air, with filter		13:05	0.0	21.2	0.2	0.0	0		
Warehouse ambient air, without filter		13:05	0.0	21.4	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		13:13	48.4	1.1	4.8	16.2	>100		
Sub-slab probe A (warehouse) without filter		13:13	48.4	1.0	5.1	21.9	>100		



TABLE 1

VAPOR INTRUSION FIELD MONITORING VALUES  
 PARCEL 5054 BUILDING 2  
 1903 DRYDEN ROAD  
 SOUTH DAYTON DUMP AND LANDFILL SITE  
 MORaine, OHIO

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
Office ambient air, with filter	9/27/2012	14:40	0.4	20.8	0.1	0.0	0	60s - 70s	none
Office ambient air, without filter		14:40	0.4	20.8	0.1	0.0	0		
Sub-slab probe B (office) with filter		14:54	3.1	19.4	0.2	0.0	0		
Sub-slab probe B (office) without filter		14:54	3.1	20.0	0.4	0.0	0		
Warehouse ambient air, with filter		14:57	0.6	20.7	0.0	0.0	0		
Warehouse ambient air, without filter		14:57	0.6	20.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:05	81.1	1.3	3.3	15.4	>100		
Sub-slab probe A (warehouse) without filter		15:05	81.1	15.0	1.3	16.2	>100		
Office ambient air, with filter	10/2/2012	13:35	0.0	21.0	0.0	0.0	0	mid 60s	light rain
Office ambient air, without filter		13:35	0.0	21.0	0.0	0.0	0		
Sub-slab probe B (office) with filter		13:45	1.5	20.2	1.1	0.0	0		
Sub-slab probe B (office) without filter		13:45	1.5	20.1	0.8	0.0	0		
Warehouse ambient air, with filter			0.0	21.0	0.0	0.0	0		
Warehouse ambient air, without filter			0.0	21.0	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:00	91.4	0.5	5.6	15.5	>100		
Sub-slab probe A (warehouse) without filter		14:00	91.4	0.2	4.9	21.3	>100		
Office ambient air, with filter	10/18/2012	14:05	0.0	21.3	0.0	0.0	0	mid 70s	none
Office ambient air, without filter		14:05	0.0	21.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:46	3.1	21.0	0.3	0.0	0		
Sub-slab probe B (office) without filter		14:46	3.1	21.1	0.6	0.0	0		
Warehouse ambient air, with filter		14:11	0.0	21.4	0.0	0.0	0		
Warehouse ambient air, without filter		14:11	0.0	21.4	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:51	59.6	0.7	3.6	15.0	>100		
Sub-slab probe A (warehouse) without filter		14:51	59.6	1.6	4.2	18.0	>100		
Office ambient air, with filter	10/25/2012	13:54	0.0	20.0	0.1	0.0	0	70s	none
Office ambient air, without filter		13:54	0.0	19.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:15	0.6	19.7	0.1	0.0	0		
Sub-slab probe B (office) without filter		14:15	0.6	19.7	0.5	0.0	0		
Warehouse ambient air, with filter		14:00	0.0	20.9	0.0	0.0	0		
Warehouse ambient air, without filter		14:00	0.0	20.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:29	48.8	0.2	4.0	14.3	>100		
Sub-slab probe A (warehouse) without filter		14:29	48.8	0.2	4.2	17.9	>100		
Office ambient air, with filter	10/30/2012	14:15	0.0	22.0	0.1	0.0	0	30s - 40s	snow & rain
Office ambient air, without filter		14:15	0.0	22.0	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:51	0.3	20.4	0.1	0.0	0		
Sub-slab probe B (office) without filter		14:51	0.3	20.4	0.6	0.0	0		
Warehouse ambient air, with filter		14:24	0.0	22.1	0.1	0.0	0		
Warehouse ambient air, without filter		14:24	0.0	27.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:15	15.5	0.6	2.4	14.5	>100		
Sub-slab probe A (warehouse) without filter		15:15	15.5	0.4	4.0	17.7	>100		

**TABLE 1**  
**VAPOR INTRUSION FIELD MONITORING VALUES**  
**PARCEL 5054 BUILDING 2**  
**1903 DRYDEN ROAD**  
**SOUTH DAYTON DUMP AND LANDFILL SITE**  
**MORaine, OHIO**

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
Office ambient air, with filter	11/8/2012	14:57	0.9	21.5	0.0	0.0	0	30s - 40s	none
Office ambient air, without filter		14:57	0.9	21.5	0.0	0.0	0		
Sub-slab probe B (office) with filter		15:32	2.0	20.1	0.7	0.0	0		
Sub-slab probe B (office) without filter		15:32	2.0	20.1	0.4	0.0	0		
Warehouse ambient air, with filter		14:44	1.0	20.9	0.1	0.0	0		
Warehouse ambient air, without filter		14:44	1.0	20.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:44	83.6	0.3	2.9	14.0	>100		
Sub-slab probe A (warehouse) without filter		15:44	83.6	0.5	3.6	16.0	>100		
Office ambient air, with filter	11/15/2012	14:24	0.0	22.3	0.1	0.0	0	30s - 40s	none
Office ambient air, without filter		14:24	0.0	22.4	0.1	0.0	0		
Sub-slab probe B (office) with filter		15:26	0.0	20.7	1.2	0.0	0		
Sub-slab probe B (office) without filter		15:26	0.0	21.1	0.4	0.0	0		
Warehouse ambient air, with filter		14:31	0.0	22.5	0.1	0.0	0		
Warehouse ambient air, without filter		14:31	0.0	22.5	0.1	0.0	0		
Sub-slab probe A (warehouse) with filter		15:53	21.9	0.3	3.0	13.2	>100		
Sub-slab probe A (warehouse) without filter		15:53	21.9	0.2	3.5	16.4	>100		
Office ambient air, with filter	11/20/2012	13:53	0.0	20.8	0.0	0.0	0	50s	Trace
Office ambient air, without filter		13:53	0.0	20.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:48	0.0	20.3	1.2	0.0	0		
Sub-slab probe B (office) without filter		14:48	0.0	20.5	0.3	0.0	0		
Warehouse ambient air, with filter		13:50	0.0	20.8	0.0	0.0	0		
Warehouse ambient air, without filter		13:50	0.0	20.8	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:00	79.6	0.1	3.4	14.0	>100		
Sub-slab probe A (warehouse) without filter		15:00	79.6	0.1	3.5	17.5	>100		
Office ambient air, with filter	11/29/2012	13:16	0.5	21.2	0.1	0.0	0	40s - 50s	None
Office ambient air, without filter		13:16	0.5	21.2	0.1	0.0	0		
Sub-slab probe B (office) with filter		14:13	0.9	20.3	0.6	0.0	0		
Sub-slab probe B (office) without filter		14:13	0.9	20.3	0.4	0.0	0		
Warehouse ambient air, with filter		13:31	0.5	21.8	0.0	0.0	0		
Warehouse ambient air, without filter		13:31	0.5	21.8	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:29	32.5	0.4	3.2	13.1	>100		
Sub-slab probe A (warehouse) without filter		14:29	32.5	0.3	3.2	16.1	>100		
Office ambient air, with filter	12/4/2012	14:35	0.0	21.2	0.0	0.0	0	50s	rainy (~0.3 inches)
Office ambient air, without filter		14:35	0.0	21.0	0.0	0.0	0		
Sub-slab probe B (office) with filter		15:26	0.0	20.2	0.0	0.0	0		
Sub-slab probe B (office) without filter		15:26	0.0	20.1	0.3	0.0	0		
Warehouse ambient air, with filter		14:45	0.0	21.5	0.0	0.0	0		
Warehouse ambient air, without filter		14:45	0.0	21.5	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:47	33.1	0.9	3.5	12.4	>100		
Sub-slab probe A (warehouse) without filter		15:47	33.1	0.8	3.5	14.8	>100		
Office ambient air, with filter	12/13/2012	14:41	0.0	21.2	0.0	0.1 U	2 U	40s	None
Office ambient air, without filter		14:41	0.0	21.2	0.0	0.0	0		
Sub-slab probe B (office) with filter		15:27	1.1	20.6	0.3	0.0	0		
Sub-slab probe B (office) without filter		15:27	1.1	20.5	0.3	0.0	0		
Warehouse ambient air, with filter		14:38	0.0	21.1	0.0	0.0	0		
Warehouse ambient air, without filter		14:38	0.0	21.1	0.1	0.1 U	2 U		
Sub-slab probe A (warehouse) with filter		15:42	35.9	0.8	2.4	13.0	>100		
Sub-slab probe A (warehouse) without filter		15:42	35.9	0.5	3.2	15.2	>100		

TABLE 1

**VAPOR INTRUSION FIELD MONITORING VALUES  
PARCEL 5054 BUILDING 2  
1903 DRYDEN ROAD  
SOUTH DAYTON DUMP AND LANDFILL SITE  
MORAIN, OHIO**

Sample Location:	Date:	Time	PID (ppm)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	CH <sub>4</sub> <sup>[2]</sup> (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
Office ambient air, with filter	12/18/2012	12:49	0.0	21.9	0.0	0.0	1 U	40s	None
Office ambient air, without filter		12:59	0.0	21.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:46	0.2	20.3	2.6	0.0	0		
Sub-slab probe B (office) without filter		14:46	0.2	20.2	3.3	0.0	0		
Warehouse ambient air, with filter		12:54	0.0	21.8	0.0	0.1 U	2 U		
Warehouse ambient air, without filter		12:54	0.0	21.7	0.1	0.0	0		
Sub-slab probe A (warehouse) with filter		15:02	30.4	0.3	2.9	13.2	>100		
Sub-slab probe A (warehouse) without filter		15:02	30.4	0.6	3.5	15.4	>100		
1903 Dryden Road, Valley Asphalt, Parcel 5054 Building 2 (Quonset Hut)	12/27/2012	Property closed from December 21, 2012 to January 6, 2013							
Office ambient air, with filter	1/10/2013	12:21	0.0	20.2	0.2	0.0	0	30s	Trace
Office ambient air, without filter		12:21	0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:37	0.4	20.2	0.4	0.0	0		
Sub-slab probe B (office) without filter		14:37	0.4	20.3	0.3	0.0	0		
Warehouse ambient air, with filter		12:23	0.0	20.4	0.3	0.0	0		
Warehouse ambient air, without filter		12:23	0.0	20.5	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:50	8.2	0.9	2.1	10.2	>100		
Sub-slab probe A (warehouse) without filter		14:50	8.2	1.2	3.2	11.5	>100		
Office ambient air, with filter	1/17/2013	12:35	0.0	21.3	0.1	0.0	0	30s	none
Office ambient air, without filter		12:35	0.0	21.4	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:15	0.4	20.7	0.1	0.0	0		
Sub-slab probe B (office) without filter		14:15	0.4	20.6	0.3	0.0	0		
Warehouse ambient air, with filter		12:37	0.0	21.4	0.1	0.0	0		
Warehouse ambient air, without filter		12:37	0.0	21.4	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:28	20.4	0.3	3.2	11.2	>100		
Sub-slab probe A (warehouse) without filter		14:28	20.4	0.4	3.2	12.5	>100		
Office ambient air, with filter	1/24/2013	14:11	0.0	21.5	0.1	0.0	0	10s - 20s	none
Office ambient air, without filter		14:11	0.0	21.2	0.0	0.0	0		
Sub-slab probe B (office) with filter		15:50	0.0	21.1	0.5	0.0	0		
Sub-slab probe B (office) without filter		15:50	0.0	21.7	0.3	0.0	0		
Warehouse ambient air, with filter		14:15	0.0	21.7	0.0	0.0	0		
Warehouse ambient air, without filter		14:15	0.0	21.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		16:13	7.8	1.2	2.5	9.2	>100		
Sub-slab probe A (warehouse) without filter		16:13	7.8	0.6	3.5	10.7	>100		
Office ambient air, with filter	1/31/2013	14:35	0.0	21.4	0.1	0.0	0	10s - 20s	none
Office ambient air, without filter		14:35	0.0	21.2	0.1	0.0	0		
Sub-slab probe B (office) with filter		15:29	0.0	20.4	0.7	0.0	0		
Sub-slab probe B (office) without filter		15:29	0.0	20.6	0.3	0.0	0		
Warehouse ambient air, with filter		14:45	0.0	21.9	0.0	0.0	0		
Warehouse ambient air, without filter		14:45	0.0	22.0	0.1	0.0	0		
Sub-slab probe A (warehouse) with filter		15:52	7.9	0.8	3.5	9.3	>100		
Sub-slab probe A (warehouse) without filter		15:52	7.9	0.5	3.3	11.1	>100		
Office ambient air, with filter	2/7/2013	14:25	0.0	21.0	0.3	0.0	0	20s - 50s	none
Office ambient air, without filter		14:25	0.0	20.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		15:04	1.1	21.2	0.2	0.0	0		
Sub-slab probe B (office) without filter		15:04	1.1	21.0	0.2	0.0	0		
Warehouse ambient air, with filter		14:30	0.0	21.5	0.1	0.0	0		
Warehouse ambient air, without filter		14:30	0.0	21.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:25	23.0	1.0	3.0	8.5	>100		
Sub-slab probe A (warehouse) without filter		15:25	23.0	0.7	3.1	9.6	>100		

TABLE 1

VAPOR INTRUSION FIELD MONITORING VALUES  
 PARCEL 5054 BUILDING 2  
 1903 DRYDEN ROAD  
 SOUTH DAYTON DUMP AND LANDFILL SITE  
 MORaine, OHIO

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
Office ambient air, with filter	2/12/2013	13:47	0.0	21.2	0.0	0.0	0	30s - 40s	none
Office ambient air, without filter		13:47	0.0	21.2	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:15	0.6	20.9	0.0	0.0	0		
Sub-slab probe B (office) without filter		14:15	0.6	20.8	0.2	0.0	0		
Warehouse ambient air, with filter		13:49	0.0	21.2	0.0	0.0	0		
Warehouse ambient air, without filter		13:49	0.0	21.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:47	14.8	0.5	3.4	8.1	>100		
Sub-slab probe A (warehouse) without filter		14:47	14.8	1.1	3.4	9.3	>100		
Office ambient air, with filter	2/21/2013	12:40	0.0	21.6	0.0	0.0	0	20s	trace
Office ambient air, without filter		12:40	0.0	21.6	0.0	0.0	0		
Sub-slab probe B (office) with filter			0.3	20.9	0.1	0.0	0		
Sub-slab probe B (office) without filter			0.3	20.9	0.2	0.0	0		
Warehouse ambient air, with filter		12:37	0.0	21.6	0.0	0.0	0		
Warehouse ambient air, without filter		12:37	0.0	21.6	0.1	0.0	0		
Sub-slab probe A (warehouse) with filter			10.2	0.5	3.2	7.3	>100		
Sub-slab probe A (warehouse) without filter			10.2	0.6	3.4	8.1	>100		
Office ambient air, with filter	2/28/2013	13:51	0.0	21.2	0.0	0.0	0	30s - 40s	~1 inch
Office ambient air, without filter		13:51	0.0	21.2	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:25	0.0	20.8	0.1	0.0	0		
Sub-slab probe B (office) without filter		14:25	0.0	20.8	0.2	0.0	0		
Warehouse ambient air, with filter		13:53	0.0	21.3	0.0	0.0	0		
Warehouse ambient air, without filter		13:53	0.0	21.3	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:43	6.3	0.2	3.5	8.7	>100		
Sub-slab probe A (warehouse) without filter		14:43	6.3	0.4	3.5	9.6	>100		
Office ambient air, with filter	3/7/2013	13:10	0.0	22.8	0.1	0.0	0	30s	None
Office ambient air, without filter		13:10	0.0	20.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:10	0.1	20.7	0.1	0.0	0		
Sub-slab probe B (office) without filter		14:10	0.1	20.7	0.2	0.0	0		
Warehouse ambient air, with filter		13:15	0.0	21.9	0.1	0.0	0		
Warehouse ambient air, without filter		13:15	0.0	22.0	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:25	33.7	3.1	3.5	6.8	>100		
Sub-slab probe A (warehouse) without filter		14:25	33.7	0.6	3.6	8.9	>100		
Office ambient air, with filter	3/14/2013	14:04	0.0	21.8	0.1	0.0	0	20s - 40s	None
Office ambient air, without filter		14:04	0.0	21.7	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:42	0.0	20.9	0.7	0.0	0		
Sub-slab probe B (office) without filter		14:42	0.0	21.0	0.2	0.0	0		
Warehouse ambient air, with filter		14:06	0.0	21.6	0.0	0.0	0		
Warehouse ambient air, without filter		14:06	0.0	21.6	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:01	12.2	5.2	3.1	5.8	>100		
Sub-slab probe A (warehouse) without filter		15:01	12.2	5.4	2.8	7.3	>100		
Office ambient air, with filter	3/21/2013	12:52	0.0	21.5	0.0	0.0	0	20s - 30s	Trace
Office ambient air, without filter		12:52	0.0	21.5	0.0	0.0	0		
Sub-slab probe B (office) with filter		13:53	0.0	21.2	0.0	0.0	0		
Sub-slab probe B (office) without filter		13:53	0.0	21.1	0.2	0.0	0		
Warehouse ambient air, with filter		12:50	0.0	21.5	0.0	0.0	0		
Warehouse ambient air, without filter		12:50	0.0	21.5	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:16	17.8	1.3	3.5	8.1	>100		
Sub-slab probe A (warehouse) without filter		14:16	17.8	1.2	3.5	9.0	>100		

**TABLE 1**  
**VAPOR INTRUSION FIELD MONITORING VALUES**  
**PARCEL 5054 BUILDING 2**  
**1903 DRYDEN ROAD**  
**SOUTH DAYTON DUMP AND LANDFILL SITE**  
**MORaine, OHIO**

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
Office ambient air, with filter	3/28/2013	12:21	0.0	21.2	0.0	0.0	0	30 - 40s	None
Office ambient air, without filter		12:21	0.0	21.2	0.0	0.0	0		
Sub-slab probe B (office) with filter		13:10	0.0	21.0	0.1	0.0	0		
Sub-slab probe B (office) without filter		13:10	0.0	21.0	0.2	0.0	0		
Warehouse ambient air, with filter		12:23	0.0	21.2	0.0	0.0	0		
Warehouse ambient air, without filter		12:23	0.0	21.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		13:33	5.7	6.5	1.0	7.6	>100		
Sub-slab probe A (warehouse) without filter		13:33	5.7	6.6	2.4	7.8	>100		

## Notes:

<sup>[1]</sup> - The explosive gas monitor baseline reading was 1 percent LEL. The meter did not zero for LEL readings and the corresponding methane readings were 0 percent; therefore, the readings of 1 percent are anomalous.

<sup>[2]</sup> - The Landtec GEM 2000 combustible gas monitor measures explosive gases as a percent of methane by volume. The presence of other hydrocarbon gases affects methane readings.

<sup>[3]</sup> - Value was rejected (R) due to suspected transcription error or meter malfunction.

<sup>[4]</sup> - Anomalous Value. Suspected instrument carry-over or transcription error.

PID - Photoionization Detector

O<sub>2</sub> - Oxygen

CO<sub>2</sub> - Carbon Dioxide

CH<sub>4</sub> - Methane

LEL - Lower Explosive Limit

NM - Not measured

U - Qualified as non-detect due to issues with the filter

**Value** - Value is greater than screening levels for rapid response (USEPA, 2010).


 - Unfiltered value is lower than filtered value, indicating either a transcription error, or issue with sampling or data quality.

TABLE 2

**VAPOR INTRUSION SAMPLING VALUES  
PARCEL 5173 BUILDING 1 - SIM TRAINER  
2031 DRYDEN ROAD  
SOUTH DAYTON DUMP AND LANDFILL SITE  
MORaine, OHIO**

Sample Location: Parcel / Building / Probe	Date:	PID Time (ppm)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	CH <sub>4</sub> (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
5173 / 1 / Storage area ambient air, without filter	1/19/2012	11:50	0.9	22.1	0.1	0	ND(1) <sup>1</sup>	
5173 / 1 / C / Storage area, without filter		12:01	391	7.5	2.7	0.9	19	
5173 / 1 / Storage area ambient air, without filter	1/24/2012	10:00	0	21.5	0	0	0	
5173 / 1 / C / Storage area, without filter		10:09	96.7	5.5	2.8	0.9	19	
5173 / 1 / Storage area ambient air, without filter	1/31/2012	10:50	1	21.6	0	0	0	
5173 / 1 / C / Storage area, without filter		11:14	182.7	5.5	3.1	1.1	25	
5173 / 1 / Storage area ambient air, without filter	2/7/2012	10:44	0.1	21.7	0.1	0	0	
5173 / 1 / C / Storage area, without filter		10:56	142.3	10.9	1.8	0.9	21	
5173 / 1 / Storage area ambient air, without filter	2/16/2012	10:40	0.1	20.5	0.1	0	0	
5173 / 1 / C / Storage area with filter		11:04	79.4	14.1	3.1	0.5	10	
5173 / 1 / C / Storage area without filter		11:04	79.4	18.1	0.3	0.2	3	
5173 / 1 / Storage area ambient air, without filter	3/1/2012	11:36	0.1	21.4	0	0	0	
5173 / 1 / C / Storage area with filter		12:46	196.5	13.8	0.2	0.3	7	
5173 / 1 / C / Storage area without filter		12:48	196.5	16.9	1.5	0.4	9	
5173 / 1 / Storage area ambient air	3/13/2012	9:32	0	20.1	0.8	0	0	
5173 / 1 / C / Storage area with filter		10:20	101.2	1	3.3	0.8	18	
5173 / 1 / C / Storage area without filter			101.2	0.4	4.7	1.4	27	
5173 / 1 / A ambient air without filter		9:57	0	21	0.1	0	0	
5173 / 1 / A with filter		10:15	0	16.9	3	0	0	
5173 / 1 / B ambient air without filter		9:30	0	21.4	0	0	0	
5173 / 1 / B with filter		9:48	0.2	9.1	7.9	0	0	
5173 / 1 / Storage area ambient air, without filter	3/22/2012	11:50	0	20.5	0	0	0	
5173 / 1 / C / Storage area with filter		12:44	105.8	3.2	1.2	0.7	11	
5173 / 1 / C / Storage area without filter		12:47	105.8	3	5.1	1.1	24	
5173 / 1 / Storage area ambient air, without filter	3/27/2012		0.1	21.5	0	0	0	
5173 / 1 / C / Storage area with filter			17.1	3.9	1.9	0.9	17	
5173 / 1 / C / Storage area without filter		10:56	17.1	5.9	5.4	1.2	26	
5173 / 1 / Storage area ambient air, without filter	4/3/2012	12:30	0	21	0	0	0	
5173 / 1 / C / Storage area with filter		13:09	136.8	1.9	0.4	0.8	19	
5173 / 1 / C / Storage area without filter		13:10	136.8	1.7	5.1	1.4	29	
5173 / 1 / Storage area ambient air, without filter	4/10/2012	11:05	0	21.6	0	0	0	
5173 / 1 / C / Storage area with filter		11:52	206.1	3	0.5	0.8	19	
5173 / 1 / C / Storage area without filter		11:53	206.1	3.1	1.2	0.9	27	
5173 / 1 / Storage area ambient air, without filter	4/17/2012	10:15	0	21.5	0	0	0	
5173 / 1 / C / Storage area with filter		10:32	129.8	2.3	2.2	0.9	19	
5173 / 1 / C / Storage area without filter		10:37	129.8	1.5	5.5	1.4	28	
5173 / 1 / Storage area ambient air, without filter	4/26/2012	11:13	0	21	0	0	0	
5173 / 1 / C / Storage area with filter		11:27	120.7	2.2	1.7	0.9	10	
5173 / 1 / C / Storage area without filter		11:31	120.7	14.9	1.6	0.5	12	
5173 / 1 / Storage area ambient air, without filter	5/3/2012	11:33	0	20.2	0.1	0	0	
5173 / 1 / C / Storage area with filter		11:45	122.1	15.2	0.8	0.3	5	
5173 / 1 / C / Storage area without filter		11:48	122.1	9.5	3.4	0.7	14	
5173 / 1 / Storage area ambient air, without filter	5/10/2012	13:58	0	20.6	0	0	0	
5173 / 1 / C / Storage area with filter		14:10	167.9	10.7	0.9	0.6	14	
5173 / 1 / C / Storage area without filter		14:11	167.9	7.8	3.8	0.9	18	
5173 / 1 / Storage area ambient air, without filter	5/15/2012		0	20.1	0	0	0	
5173 / 1 / C / Storage area with filter			80.4	10.7	0.2	0.5	10	
5173 / 1 / C / Storage area without filter			80.4	20.8	0.3	0.1	2	
5173 / 1 / Storage area ambient air, without filter	5/24/2012	13:15	0.0	20.8	0.0	0.0	0	
5173 / 1 / C / Storage area with filter		13:39	107.1	1.2	6.2	0.9	18	
5173 / 1 / C / Storage area without filter		13:47	107.1	2.2	6.4	1.3	26	
5173 / 1 / Storage area ambient air, without filter	5/31/2012	11:04	0.0	20.4	0.0	0.0	0	
5173 / 1 / C / Storage area with filter		11:14	116.6	8.7	1.5	0.3	7	
5173 / 1 / C / Storage area without filter		11:20	116.6	16.8	2.0	0.7	27	
5173 / 1 / Storage area ambient air, without filter	6/7/2012	10:24	0.0	20.9	0.0	0.0	0	
5173 / 1 / C / Storage area with filter		10:33	102.2	0.9	6.2	1.1	22	
5173 / 1 / C / Storage area without filter		10:44	102.2	1.8	7.0	1.4	28	
5173 / 1 / Storage area ambient air, without filter	6/14/2012	10:55	0.0	20.4	0.0	0.0	0	
5173 / 1 / C / Storage area with filter		11:07	72.0	5.5	3.5	0.7	20	
5173 / 1 / C / Storage area without filter		11:13	72.0	3.8	4.3	1.0	21	

TABLE 2

**VAPOR INTRUSION SAMPLING VALUES  
PARCEL 5173 BUILDING 1 - SIM TRAINER  
2031 DRYDEN ROAD  
SOUTH DAYTON DUMP AND LANDFILL SITE  
MORaine, OHIO**

Sample Location: Parcel / Building / Probe	Date:	Time	PID (ppm)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	CH <sub>4</sub> (%)	LEL (%)	Ambient Temperature ( °F)	Summary of Recent Precipitation
5173 / 1 / Storage area ambient air, without filter	6/19/2012	10:33	0.0	20.2	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		10:55	78.0	1.8	2.3	1.3	26		
5173 / 1 / C / Storage area without filter		10:57	78.0	1.3	7.3	2.2	43		
5173 / 1 / Storage area ambient air, without filter	6/28/2012	10:01	0.0	20.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		10:11	65.7	5.8	3.2	0.7	21		
5173 / 1 / C / Storage area without filter		10:11	65.7	3.7	4.7	1.1	27		
5173 / 1 / Storage area ambient air, without filter	7/3/2012	10:15	0.0	19.7	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		10:56	68.0	1.9	7.6	1.7	36		
5173 / 1 / C / Storage area without filter		10:58	68.0	1.9	6.4	1.3	25		
5173 / 1	7/11/2012	Access unavailable							
5173 / 1 / Storage area ambient air, without filter	7/19/2012	13:15	0.1	20.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		13:40	65.9	1.7	6.5	1.8	38		
5173 / 1 / C / Storage area without filter		13:40	65.9	1.6	7.9	2.6	51		
5173 / 1 / Storage area ambient air, without filter	7/26/2012	9:45	0.0	20.2	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		9:54	0.0	2.4	6.2	1.9	43		
5173 / 1 / C / Storage area without filter		9:54	0.0	1.0	7.7	3.2	63		
5173 / 1 / Storage area ambient air, with filter	8/2/2012	9:40	0.0	20.6	0.0	0.0	0	90s	none
5173 / 1 / Storage area ambient air, without filter		9:40	0.0	20.7	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		9:52	79.6	9.2	0.1	1.1	17		
5173 / 1 / C / Storage area without filter		9:52	79.6	6.9	5.3	1.8	38		
5173 / 1 / Storage area ambient air, with filter	8/7/2012	9:57	--	--	--	--	0	low 90s	none
5173 / 1 / Storage area ambient air, without filter		9:57	0.3	20.7	0.1	0.0	0		
5173 / 1 / C / Storage area with filter		10:06	--	--	--	--	43		
5173 / 1 / C / Storage area without filter		10:06	116.5	3.7	6.7	2.9	57		
5173 / 1 / A / Office area ambient air with filter	8/16/2012	11:55	0.1	20.3	0.0	0.0	0	80 - low 90s	none
5173 / 1 / A / Office area ambient air without filter		11:55	0.1	20.2	0.0	0.0	0		
5173 / 1 / A / Office area with filter		11:58	2.5	19.5	0.3	0.0	0		
5173 / 1 / A / Office area without filter		11:58	2.5	19.7	0.9	0.0	0		
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation							
5173 / 1 / Storage area ambient air, with filter		11:52	0.3	20.6	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		11:52	0.3	20.6	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		12:26	100.7	0.5	6.1	2.2	47		
5173 / 1 / C / Storage area without filter		12:26	100.7	1.3	6.7	3.1	62		
5173 / 1 / A / Office area ambient air with filter	8/21/2012	14:05	0.0	21.1	0.0	0.0	0	80s	none
5173 / 1 / A / Office area ambient air without filter		14:05	0.0	21.0	0.0	0.0	0		
5173 / 1 / A / Office area with filter		14:20	2.0	19.5	0.1	0.0	0		
5173 / 1 / A / Office area without filter		14:20	2.0	19.7	0.8	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:45	0.0	20.4	0.0	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:45	0.0	20.4	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		13:55	2.3	4.4	12.2	0.0	0		
5173 / 1 / B / Firing Range without filter		13:55	2.3	6.3	11.0	0.0	0		
5173 / 1 / Storage area ambient air, with filter		14:25	0.0	21.1	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		14:25	0.0	21.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		14:37	110.9	0.5	5.0	2.1	42		
5173 / 1 / C / Storage area without filter		14:37	110.9	4.8	5.1	2.3	46		
5173 / 1 / A / Office area ambient air without filter	8/30/2012		0.0	20.0	0.0	0.0	0	80s	none
5173 / 1 / A / Office area with filter		13:44	0.5	19.5	0.9	0.0	0		
5173 / 1 / A / Office area without filter		13:44	0.5	19.4	1.0	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:57	0.0	20.7	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		14:07	1.2	5.5	11.0	0.0	0		
5173 / 1 / B / Firing Range without filter		14:07	1.2	5.3	11.6	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:03	0.0	20.5	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		13:21	39.1	1.4	3.8	1.9	39		
5173 / 1 / C / Storage area without filter		13:21	39.1	0.9	6.6	2.8	57		



TABLE 2

VAPOR INTRUSION SAMPLING VALUES  
 PARCEL 5173 BUILDING 1 - SIM TRAINER  
 2031 DRYDEN ROAD  
 SOUTH DAYTON DUMP AND LANDFILL SITE  
 MORaine, OHIO

Sample Location: Parcel / Building / Probe	Date:	Time	PID (ppm)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	CH <sub>4</sub> (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	
5173 / 1 / A / Office area ambient air with filter	9/6/2012		0.0	20.6	0.0	0.0	0	80s	rain daily during week of September 2 to 6	
5173 / 1 / A / Office area ambient air without filter			0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:07	3.8	19.4	0.1	0.0	0			
5173 / 1 / A / Office area without filter		14:07	3.8	19.2	0.9	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter			0.0	20.3	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter			0.0	20.4	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		14:00	3.8	62.0	9.9	0.0	0			
5173 / 1 / B / Firing Range without filter		14:00	3.8	63.0	11.4	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	20.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	20.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:41	140.4	0.9	5.0	1.9	38			
5173 / 1 / C / Storage area without filter		13:41	140.4	0.8	6.3	2.8	58			
5173 / 1 / A / Office area ambient air with filter	9/13/2012		0.0	20.9	0.0	0.0	0	high 70s - low 80s	none	
5173 / 1 / A / Office area ambient air without filter			0.0	20.7	0.0	0.0	0			
5173 / 1 / A / Office area with filter		12:08	0.5	19.6	0.2	0.0	0			
5173 / 1 / A / Office area without filter		12:08	0.5	19.2	1.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter			0.0	21.3	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter			0.0	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		12:23	1.9	5.8	9.7	0.0	0			
5173 / 1 / B / Firing Range without filter		12:23	1.9	5.5	11.8	0.0	0			
5173 / 1 / Storage area ambient air, with filter			0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter			0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter			60.2	0.8	5.1	2.3	45			
5173 / 1 / C / Storage area without filter			60.2	1.0	6.0	2.7	55			
5173 / 1 / A / Office area ambient air with filter	9/20/2012	11:55	0.0	20.3	0.1	0.0	0	low 70s	none	
5173 / 1 / A / Office area ambient air without filter		11:55	0.0	20.3	0.0	0.0	0			
5173 / 1 / A / Office area with filter		12:04	0.6	18.0	0.2	0.0	0			
5173 / 1 / A / Office area without filter		12:04	0.6	17.8	1.5	0.0	0			
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		12:15	0.0	20.9	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:15	0.0	20.9	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		12:23	88.5	1.9	4.5	2.0	41			
5173 / 1 / C / Storage area without filter		12:23	88.5	1.8	5.3	2.6	52			
5173 / 1 / SIM Trainer	9/27/2012	Inaccessible							60s - 70s	none
5173 / 1 / A / Office area ambient air with filter	10/2/2012	13:05	0.0	21.1	0.0	0.0	0	mid 60s	light rain	
5173 / 1 / A / Office area ambient air without filter		13:05	0.0	21.1	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:09	0.7	15.6	0.7	0.0	0			
5173 / 1 / A / Office area without filter		13:09	0.7	17.4	1.6	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:50	0.0	20.9	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		12:50	0.0	20.9	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		13:00	0.7	4.6	10.3	0.0	0			
5173 / 1 / B / Firing Range without filter		13:00	0.7	4.7	10.5	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:13	0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:13	0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:17	57.3	0.8	5.8	2.0	40			
5173 / 1 / C / Storage area without filter		13:17	57.3	0.9	5.0	2.8	56			
5173 / 1 / A / Office area ambient air with filter	10/18/2012	13:15	0.0	21.2	0.1	0.0	0	mid 70s	none	
5173 / 1 / A / Office area ambient air without filter		13:15	0.0	21.3	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:44	0.8	16.3	2.4	0.0	0			
5173 / 1 / A / Office area without filter		13:44	0.8	16.2	2.5	0.0	0			
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:17	0.0	21.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.3	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:50	104.2	1.8	3.8	1.5	30			
5173 / 1 / C / Storage area without filter		13:50	104.2	1.9	4.3	1.9	38			

TABLE 2

**VAPOR INTRUSION SAMPLING VALUES  
PARCEL 5173 BUILDING 1 - SIM TRAINER  
2031 DRYDEN ROAD  
SOUTH DAYTON DUMP AND LANDFILL SITE  
MORaine, OHIO**

<i>Sample Location: Parcel / Building / Probe</i>	<i>Date:</i>	<i>PID Time</i>	<i>O<sub>2</sub> (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
5173 / 1 / A / Office area ambient air with filter	10/25/2012	13:35	0.0	21.0	0.1	0.0	0	70s	none
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.0	0.1	0.0	0		
5173 / 1 / A / Office area with filter		14:17	2.4	15.6	0.8	0.0	0		
5173 / 1 / A / Office area without filter		14:17	2.4	15.2	2.6	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:06	0.0	20.5	0.1	0.0	1 <sup>R</sup>		
5173 / 1 / B / Firing Range ambient air without filter		13:06	0.0	20.3	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		14:20	1.0	3.8	9.6	0.0	0		
5173 / 1 / B / Firing Range without filter		14:20	1.0	4.1	10.0	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	21.0	0.1	0.0	1 <sup>R</sup>		
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	20.9	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		14:24	72.9	1.3	3.7	1.5	31		
5173 / 1 / C / Storage area without filter		14:24	72.9	1.4	4.1	2.0	41		
5173 / 1 / A / Office area ambient air with filter	10/30/2012	13:35	0.0	21.9	0.1	0.0	0	30s - 40s	snow & rain
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.9	0.1	0.0	0		
5173 / 1 / A / Office area with filter		14:55	1.6	14.2	1.8	0.0	0		
5173 / 1 / A / Office area without filter		14:55	1.6	14.3	3.2	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:48	0.0	21.3	0.1	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:48	0.0	21.4	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		15:02	1.6	4.0	9.5	0.0	0		
5173 / 1 / B / Firing Range without filter		15:02	1.6	4.1	10.5	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	22.2	0.1	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	22.1	0.1	0.0	0		
5173 / 1 / C / Storage area with filter		15:06	79.5	1.2	4.3	1.6	34		
5173 / 1 / C / Storage area without filter		15:06	79.5	1.4	4.1	2.1	43		
5173 / 1 / A / Office area ambient air with filter	11/8/2012	14:02	1.4	21.4	0.1	0.0	0	30s - 40s	none
5173 / 1 / A / Office area ambient air without filter		14:02	1.4	21.5	0.1	0.0	0		
5173 / 1 / A / Office area with filter		15:21	4.2	13.7	3.2	0.0	0		
5173 / 1 / A / Office area without filter		15:21	4.2	13.7	3.6	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		14:15	1.2	21.0	0.0	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		14:15	1.2	21.1	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		15:26	1.8	4.5	9.5	0.0	0		
5173 / 1 / B / Firing Range without filter		15:26	1.8	4.8	9.9	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:35	1.3	20.9	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:35	1.3	21.1	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		15:36	165.5	1.2	3.2	1.4	27		
5173 / 1 / C / Storage area without filter		15:36	165.5	2.2	3.5	1.6	33		
5173 / 1 / A / Office area ambient air with filter	11/15/2012	13:37	0.0	21.7	0.2	0.0	0	30s - 40s	none
5173 / 1 / A / Office area ambient air without filter		13:37	0.0	21.8	0.1	0.0	0		
5173 / 1 / A / Office area with filter		15:32	0.0	14.3	3.3	0.0	0		
5173 / 1 / A / Office area without filter		15:32	0.0	14.6	3.6	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:58	0.0	21.7	0.1	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:58	0.0	21.9	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		15:43	0.0	4.3	9.5	0.0	0		
5173 / 1 / B / Firing Range without filter		15:43	0.0	4.5	9.8	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:15	0.0	21.8	0.2	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:15	0.0	21.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		15:45	92.6	1.4	2.5	1.0	21		
5173 / 1 / C / Storage area without filter		15:45	92.6	1.4	3.4	1.3	27		
5173 / 1 / A / Office area ambient air with filter	11/20/2012	13:03	0.0	20.9	0.1	0.0	0	50s	Trace
5173 / 1 / A / Office area ambient air without filter		13:03	0.0	20.9	0.1	0.0	0		
5173 / 1 / A / Office area with filter		14:45	0.0	13.8	3.2	0.0	0		
5173 / 1 / A / Office area without filter		14:45	0.0	13.9	3.6	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:09	0.0	21.0	0.1	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:09	0.0	21.1	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		14:50	0.0	4.6	9.7	0.0	0		
5173 / 1 / B / Firing Range without filter		14:50	0.0	4.7	10.1	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:08	0.0	20.9	0.1	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:08	0.0	21.0	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		14:53	183.7	13.6	1.3	0.4	9		
5173 / 1 / C / Storage area without filter		14:53	183.7	10.8	1.8	0.8	16		

TABLE 2

**VAPOR INTRUSION SAMPLING VALUES  
PARCEL 5173 BUILDING 1 - SIM TRAINER  
2031 DRYDEN ROAD  
SOUTH DAYTON DUMP AND LANDFILL SITE  
MORaine, OHIO**

Sample Location: Parcel/ Building/ Probe	Date:	Time	PID (ppm)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	CH <sub>4</sub> (%)	LEL (%)	Ambient Temperature ( °F)	Summary of Recent Precipitation	
5173 / 1 / A / Office area ambient air with filter	11/29/2012	12:31	0.6	21.3	0.1	0.0	0	40s - 50s	None	
5173 / 1 / A / Office area ambient air without filter		12:31	0.6	21.3	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:05	1.8	13.1	4.0	0.0	0			
5173 / 1 / A / Office area without filter		14:05	1.8	13.3	4.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:40	0.4	21.2	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		12:40	0.4	21.2	0.1	0.0	0			
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		12:37	0.3	21.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:37	0.3	21.3	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:23	120.4	2.4	2.8	1.1	22			
5173 / 1 / C / Storage area without filter	14:23	120.4	2.2	3.0	1.5	30				
5173 / 1 / A / Office area ambient air with filter	12/4/2012	13:26	0.0	21.3	0.0	0.0	0	50s	rainy (~0.3 inches)	
5173 / 1 / A / Office area ambient air without filter		13:26	0.0	21.2	0.1	0.0	0			
5173 / 1 / A / Office area with filter		15:29	0.1	13.6	4.5	0.0	0			
5173 / 1 / A / Office area without filter		15:29	0.1	13.7	4.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:17	0.0	21.0	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		14:17	0.0	21.0	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		15:34	0.2	9.1	7.1	0.0	0			
5173 / 1 / B / Firing Range without filter		15:34	0.2	9.1	7.3	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:07	0.0	21.4	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:07	0.0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:39	66.6	1.6	4.2	1.0	19			
5173 / 1 / C / Storage area without filter		15:39	66.6	1.6	3.6	1.3	27			
5173 / 1 / A / Office area ambient air with filter	12/13/2012	14:18	0.0	22.0	0.0	0.0	0	40s	sunny	
5173 / 1 / A / Office area ambient air without filter		14:18	0.0	22.0	0.0	0.0	0.0			
5173 / 1 / A / Office area with filter		15:17	0.0	14.9	2.5	0.1 U	1 U			
5173 / 1 / A / Office area without filter		15:17	0.0	14.6	4.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:54	0.0	22.0	0.0	0.1 U	2 U			
5173 / 1 / B / Firing Range ambient air without filter		13:54	0.0	21.8	0.1	0.0	0			
5173 / 1 / B / Firing Range with filter		15:23	1.6	6.4	8.8	0.0	1 U			
5173 / 1 / B / Firing Range without filter		15:23	1.6	6.1	9.7	0.1	1			
5173 / 1 / Storage area ambient air, with filter		13:58	0.0	22.0	0.1	0.1 U	2 U			
5173 / 1 / Storage area ambient air, without filter		13:58	0.0	22.1	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		15:34	109.7	2.0	2.6	1.0	19			
5173 / 1 / C / Storage area without filter		15:34	109.7	1.9	3.2	1.2	25			
5173 / 1 / A / Office area ambient air with filter	12/18/2012	13:55	0.0	21.7	0.1	0.0	0	40s	none	
5173 / 1 / A / Office area ambient air without filter		13:55	0.0	21.6	0.2	0.0	0			
5173 / 1 / A / Office area with filter		14:41	0.8	14.9	3.8	0.0	0			
5173 / 1 / A / Office area without filter		14:41	0.8	14.7	4.6	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:04	0.0	21.5	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		14:04	0.0	21.6	0.1	0.0	0			
5173 / 1 / B / Firing Range with filter		14:51	0.7	6.2	9.3	0.0	0			
5173 / 1 / B / Firing Range without filter		14:51	0.7	6.4	9.7	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:58	0.0	21.4	0.3	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:58	0.0	21.4	0.4	0.0	0			
5173 / 1 / C / Storage area with filter		14:56	114.9	1.3	3.8	0.9	19			
5173 / 1 / C / Storage area without filter		14:56	114.9	1.4	3.6	1.3	26			
5173 / 1 / A / Office area ambient air with filter	12/27/2012	13:05	0.0	21.0	0.0	0.0	0	30s	none	
5173 / 1 / A / Office area ambient air without filter		13:05	0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:15	0.7	15.4	4.1	0.0	0			
5173 / 1 / A / Office area without filter		14:15	0.7	15.5	4.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:03	0.0	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:03	0.0	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		14:25	0.5	8.1	8.7	0.0	0			
5173 / 1 / B / Firing Range without filter		14:25	0.5	7.8	9.0	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:00	0.0	21.0	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:00	0.0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:35	75.0	16.5	1.1	0.3	5			
5173 / 1 / C / Storage area without filter		14:35	75.0	12.0	1.5	0.5	10			

TABLE 2

VAPOR INTRUSION SAMPLING VALUES  
 PARCEL 5173 BUILDING 1 - SIM TRAINER  
 2031 DRYDEN ROAD  
 SOUTH DAYTON DUMP AND LANDFILL SITE  
 MORaine, OHIO

Sample Location: Parcel / Building / Probe	Date:	PID Time (ppm)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	CH <sub>4</sub> (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
5173 / 1 / A / Office area ambient air with filter	1/3/2013	12:50	0.1	21.2	0.1	0.0	10s - 20s	None
5173 / 1 / A / Office area ambient air without filter		12:50	0.1	21.2	0.1	0.0		
5173 / 1 / A / Office area with filter		14:15	0.3	17.9	2.4	0.0		
5173 / 1 / A / Office area without filter		14:15	0.3	16.9	3.2	0.0		
5173 / 1 / B / Firing Range ambient air with filter		12:57	0.0	21.2	0.0	0.0		
5173 / 1 / B / Firing Range ambient air without filter		12:57	0.0	21.2	0.0	0.0		
5173 / 1 / B / Firing Range with filter		14:26	0.4	8.7	8.4	0.0		
5173 / 1 / B / Firing Range without filter		14:26	0.4	8.7	8.4	0.0		
5173 / 1 / Storage area ambient air, with filter		12:55	0.0	21.3	0.0	0.0		
5173 / 1 / Storage area ambient air, without filter		12:55	0.0	21.3	0.0	0.0		
5173 / 1 / C / Storage area with filter		14:34	90.4	4.0	2.6	0.7		
5173 / 1 / C / Storage area without filter		14:34	90.4	2.5	2.7	1.1		
5173 / 1 / A / Office area ambient air with filter	1/10/2013	13:28	0.0	21.1	0.1	0.0	30s	Trace
5173 / 1 / A / Office area ambient air without filter		13:28	0.0	21.1	0.0	0.0		
5173 / 1 / A / Office area with filter		14:24	1.0	16.0	3.7	0.0		
5173 / 1 / A / Office area without filter		14:24	1.0	16.0	3.9	0.0		
5173 / 1 / B / Firing Range ambient air with filter		13:26	0.1	20.8	0.2	0.0		
5173 / 1 / B / Firing Range ambient air without filter		13:26	0.1	21.0	0.1	0.0		
5173 / 1 / B / Firing Range with filter		14:30	0.9	9.1	7.8	0.0		
5173 / 1 / B / Firing Range without filter		14:30	0.9	9.4	7.9	0.0		
5173 / 1 / Storage area ambient air, with filter		13:24	0.1	21.0	0.1	0.0		
5173 / 1 / Storage area ambient air, without filter		13:24	0.1	21.1	0.0	0.0		
5173 / 1 / C / Storage area with filter		14:45	52.2	3.1	3.0	0.6		
5173 / 1 / C / Storage area without filter		14:45	52.2	3.2	2.8	0.9		
5173 / 1 / A / Office area ambient air with filter	1/17/2013	13:10	0.0	21.3	0.1	0.0	30s	None
5173 / 1 / A / Office area ambient air without filter		13:10	0.0	21.4	0.0	0.0		
5173 / 1 / A / Office area with filter		14:00	1.0	13.5	4.2	0.0		
5173 / 1 / A / Office area without filter		14:00	1.0	13.5	4.3	0.0		
5173 / 1 / B / Firing Range ambient air with filter		13:08	0.1	21.3	0.1	0.0		
5173 / 1 / B / Firing Range ambient air without filter		13:08	0.1	21.3	0.0	0.0		
5173 / 1 / B / Firing Range with filter		14:07	0.3	8.9	8.5	0.0		
5173 / 1 / B / Firing Range without filter		14:07	0.3	8.9	8.7	0.0		
5173 / 1 / Storage area ambient air, with filter		13:06	0.1	21.3	0.1	0.0		
5173 / 1 / Storage area ambient air, without filter		13:06	0.1	21.3	0.0	0.0		
5173 / 1 / C / Storage area with filter		14:21	92.9	1.5	3.3	0.8		
5173 / 1 / C / Storage area without filter		14:21	92.9	1.6	3.2	1.0		
5173 / 1 / A / Office area ambient air with filter	1/24/2013	13:45	0.0	22.2	0.1	0.0	10 - 20s	None
5173 / 1 / A / Office area ambient air without filter		13:45	0.0	21.9	0.1	0.0		
5173 / 1 / A / Office area with filter		15:56	0.0	16.2	2.9	0.0		
5173 / 1 / A / Office area without filter		15:56	0.0	15.9	4.1	0.0		
5173 / 1 / B / Firing Range ambient air with filter		13:36	0.0	22.4	0.0	0.0		
5173 / 1 / B / Firing Range ambient air without filter		13:36	0.0	22.4	0.0	0.0		
5173 / 1 / B / Firing Range with filter		16:01	0.4	7.2	8.2	0.0		
5173 / 1 / B / Firing Range without filter		16:01	0.4	6.7	9.0	0.0		
5173 / 1 / Storage area ambient air, with filter		13:25	0.0	21.3	0.0	0.0		
5173 / 1 / Storage area ambient air, without filter		13:25	0.0	20.9	0.0	0.0		
5173 / 1 / C / Storage area with filter		16:08	53.0	2.5	2.8	0.6		
5173 / 1 / C / Storage area without filter		16:08	53.0	1.9	2.8	0.9		
5173 / 1 / A / Office area ambient air with filter	1/31/2013	13:33	0.0	22.1	0.1	0.0	10 - 20s	None
5173 / 1 / A / Office area ambient air without filter		13:33	0.0	22.2	0.1	0.0		
5173 / 1 / A / Office area with filter		15:35	0.1	15.7	2.6	0.0		
5173 / 1 / A / Office area without filter		15:35	0.1	14.8	4.4	0.0		
5173 / 1 / B / Firing Range ambient air with filter		14:10	0.0	22.3	0.1	0.0		
5173 / 1 / B / Firing Range ambient air without filter		14:10	0.0	22.6	0.1	0.0		
5173 / 1 / B / Firing Range with filter		15:41	0.2	6.4	9.0	0.0		
5173 / 1 / B / Firing Range without filter		15:41	0.2	6.6	9.5	0.0		
5173 / 1 / Storage area ambient air, with filter		13:17	0.0	22.1	0.0	0.0		
5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.8	0.1	0.0		
5173 / 1 / C / Storage area with filter		15:46	76.7	1.9	4.3	0.6		
5173 / 1 / C / Storage area without filter		15:46	76.7	1.6	3.2	0.9		

TABLE 2

**VAPOR INTRUSION SAMPLING VALUES  
PARCEL 5173 BUILDING 1 - SIM TRAINER  
2031 DRYDEN ROAD  
SOUTH DAYTON DUMP AND LANDFILL SITE  
MORaine, OHIO**

Sample Location: Parcel/ Building/ Probe	Date:	Time	PID (ppm)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	CH <sub>4</sub> (%)	LEL (%)	Ambient Temperature ( °F)	Summary of Recent Precipitation	
5173 / 1 / A / Office area ambient air with filter	2/7/2013	14:07	0.4	21.8	0.1	0.0	0	20s - 50s	none	
5173 / 1 / A / Office area ambient air without filter		14:07	0.4	21.8	0.2	0.0	0			
5173 / 1 / A / Office area with filter		15:09	0.8	15.4	3.5	0.0	0			
5173 / 1 / A / Office area without filter		15:09	0.8	15.0	4.2	0.0	0			
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:54	0.2	21.4	0.1	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:54	0.2	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:21	135.7	2.0	3.4	0.6	13			
5173 / 1 / C / Storage area without filter		15:21	135.7	1.5	3.0	0.9	19			
5173 / 1 / A / Office area ambient air with filter	2/12/2013	13:01	0.1	21.2	0.0	0.0	0	30s - 40s	none	
5173 / 1 / A / Office area ambient air without filter		13:01	0.1	21.2	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:30	0.9	15.4	3.6	0.0	0			
5173 / 1 / A / Office area without filter		14:30	0.9	15.2	4.3	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:03	0.0	21.2	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:03	0.0	21.2	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		14:23	0.4	9.4	7.9	0.0	0			
5173 / 1 / B / Firing Range without filter		14:23	0.4	9.1	7.5	0.0	0			
5173 / 1 / Storage area ambient air, with filter		12:59	0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:59	0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:38	109.2	1.9	3.3	0.5	10			
5173 / 1 / C / Storage area without filter		14:38	109.2	3.0	3.0	0.7	13			
5173 / 1 / A / Office area ambient air with filter	2/21/2013	13:07	0.0	22.3	0.0	0.0	0	20s	trace	
5173 / 1 / A / Office area ambient air without filter		13:07	0.0	22.3	0.1	0.0	0			
5173 / 1 / A / Office area with filter		0.9	16.0	3.4	0.0	0				
5173 / 1 / A / Office area without filter		0.9	16.0	4.0	0.0	0				
5173 / 1 / B / Firing Range ambient air with filter		13:09	0.1	22.3	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:09	0.1	22.3	0.1	0.0	0			
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:12	0.1	22.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:12	0.1	22.3	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		90.5	1.8	3.0	0.7	13				
5173 / 1 / C / Storage area without filter		90.5	2.0	2.9	0.9	18				
5173 / 1 / A / Office area ambient air with filter	2/28/2013	13:03	0.0	21.1	0.1	0.0	0	30s - 40s	~1 inch	
5173 / 1 / A / Office area ambient air without filter		13:03	0.0	21.1	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:31	0.6	14.7	4.0	0.0	0			
5173 / 1 / A / Office area without filter		14:31	0.6	14.7	4.4	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:21	0.0	21.3	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:21	0.0	21.3	0.0	0.0	0			
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:15	0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:15	0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:36	63.0	2.3	3.2	0.6	13			
5173 / 1 / C / Storage area without filter		14:36	63.0	2.4	3.1	0.8	16			
5173 / 1 / A / Office area ambient air with filter	3/7/2013	14:00	0.4	21.2	0.1	0.0	0	30s	None	
5173 / 1 / A / Office area ambient air without filter		14:00	0.4	21.2	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:13	0.0	16.4	2.4	0.0	0			
5173 / 1 / A / Office area without filter		14:13	0.0	15.2	4.4	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:50	0.4	21.6	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:50	0.4	21.6	0.1	0.0	0			
5173 / 1 / B / Firing Range with filter		14:17	0.0	9.1	7.1	0.0	0			
5173 / 1 / B / Firing Range without filter		14:17	0.0	6.9	9.8	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:40	0.3	21.5	0.3	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:40	0.3	21.5	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		14:21	47.0	5.1	5.0	0.4	8			
5173 / 1 / C / Storage area without filter		14:21	47.0	3.1	3.1	0.8	15			

TABLE 2

VAPOR INTRUSION SAMPLING VALUES  
 PARCEL 5173 BUILDING 1 - SIM TRAINER  
 2031 DRYDEN ROAD  
 SOUTH DAYTON DUMP AND LANDFILL SITE  
 MORaine, OHIO

Sample Location: Parcel / Building / Probe	Date:	PID Time (ppm)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	CH <sub>4</sub> (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
5173 / 1 / A / Office area ambient air with filter	3/14/2013	13:04	0.0	21.1	0.1	0.0	20s - 40s	None
5173 / 1 / A / Office area ambient air without filter		13:04	0.0	21.2	0.1	0.0		
5173 / 1 / A / Office area with filter		14:36	0.0	15.2	4.1	0.0		
5173 / 1 / A / Office area without filter		14:36	0.0	15.2	4.6	0.0		
5173 / 1 / B / Firing Range ambient air with filter		13:33	0.0	21.8	0.0	0.0		
5173 / 1 / B / Firing Range ambient air without filter		13:33	0.0	21.7	0.0	0.0		
5173 / 1 / B / Firing Range with filter		14:30	0.1	9.4	9.1	0.0		
5173 / 1 / B / Firing Range without filter		14:30	0.1	9.6	8.8	0.0		
5173 / 1 / Storage area ambient air, with filter		13:18	0.0	21.3	0.0	0.0		
5173 / 1 / Storage area ambient air, without filter		13:18	0.0	21.4	0.0	0.0		
5173 / 1 / C / Storage area with filter		14:53	80.1	2.3	3.0	0.4		
5173 / 1 / C / Storage area without filter		14:53	80.1	2.4	3.3	0.6		
5173 / 1 / A / Office area ambient air with filter	3/21/2013	13:40	0.0	21.2	0.1	0.0	20s - 30s	Trace
5173 / 1 / A / Office area ambient air without filter		13:40	0.0	21.3	0.1	0.0		
5173 / 1 / A / Office area with filter		14:04	0.0	15.1	4.8	0.0		
5173 / 1 / A / Office area without filter		14:04	0.0	15.1	4.4	0.0		
5173 / 1 / B / Firing Range ambient air with filter		13:15	0.0	21.7	0.0	0.0		
5173 / 1 / B / Firing Range ambient air without filter		13:15	0.0	21.8	0.0	0.0		
5173 / 1 / B / Firing Range with filter		13:57	0.0	6.7	9.5	0.0		
5173 / 1 / B / Firing Range without filter		13:57	0.0	6.8	9.8	0.0		
5173 / 1 / Storage area ambient air, with filter		13:17	0.0	21.8	0.0	0.0		
5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.8	0.0	0.0		
5173 / 1 / C / Storage area with filter		14:11	85.5	4.7	3.6	0.5		
5173 / 1 / C / Storage area without filter		14:11	85.5	2.5	3.3	0.8		
5173 / 1 / A / Office area ambient air with filter	3/28/2013	12:41	0.0	21.3	0.0	0.0	30s - 40s	None
5173 / 1 / A / Office area ambient air without filter		12:41	0.0	21.3	0.0	0.0		
5173 / 1 / A / Office area with filter		13:21	0.0	15.4	5.4	0.0		
5173 / 1 / A / Office area without filter		13:21	0.0	15.5	4.4	0.0		
5173 / 1 / B / Firing Range ambient air with filter		12:42	0.0	21.3	0.0	0.0		
5173 / 1 / B / Firing Range ambient air without filter		12:42	0.0	21.3	0.0	0.0		
5173 / 1 / B / Firing Range with filter		13:16	0.0	7.3	9.1	0.0		
5173 / 1 / B / Firing Range without filter		13:16	0.0	7.2	9.8	0.0		
5173 / 1 / Storage area ambient air, with filter		12:44	0.0	21.3	0.0	0.0		
5173 / 1 / Storage area ambient air, without filter		12:44	0.0	21.3	0.0	0.0		
5173 / 1 / C / Storage area with filter		13:27	109.0	3.1	3.4	0.6		
5173 / 1 / C / Storage area without filter		13:27	109.0	3.3	3.2	0.8		

## Notes:

<sup>1</sup> - The explosive gas monitor baseline reading was 1 percent LEL. The meter did not zero for LEL readings and the corresponding methane readings were 0 percent; therefore, the readings of 1 percent are anomalous.

2 - Combustible Gas measurements from SIM Trainer were not collected during the week of February 20th, due to range closure.

R - Value was rejected (R) as the LEL reading did not correspond to the methane reading of 0 percent.

PID - Photoionization Detector

O<sub>2</sub> - Oxygen

CO<sub>2</sub> - Carbon Dioxide

CH<sub>4</sub> - Methane

LEL - Lower Explosive Limit

U - Qualified as non-detect due to issues with the filter

**Value** - Value is greater than screening levels for rapid response (USEPA, 2010).

TABLE 3

**GP-2 FIELD MONITORING VALUES  
SOUTH DAYTON DUMP AND LANDFILL SITE  
MORaine, OHIO**

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
GP-2 (12') without filter	11/9/2012	13:54	--	4.1	10.6	0.0	0	30s - 40s	none
GP-2 (12') with filter		--	--	5.6	9.1	0.0	0		
GP-2 (16') without filter		--		2.0	11.6	0.0	0		
GP-2 (16') with filter		--		4.6	10.0	0.0	0		
GP-2 (12') without filter	11/15/2012	15:04	0.0	2.4	10.8	0.0	0	30s - 40s	none
GP-2 (12') with filter		--	0.0	2.3	10.3	0.0	0		
GP-2 (16') without filter		15:09	0.0	1.0	11.8	0.0	0		
GP-2 (16') with filter		--	0.0	0.9	11.4	0.0	0		
GP-2 (12') without filter	11/20/2012	14:35	0.0	2.2	11.3	0.0	0	50s	Trace
GP-2 (12') with filter		--	0.0	2.1	11.0	0.0	0		
GP-2 (16') without filter		14:40	0.0	0.9	12.1	0.0	0		
GP-2 (16') with filter		--	0.0	0.8	11.9	0.0	0		
GP-2 (12') without filter	11/29/2012	13:53	0.0	4.3	11.0	0.0	0	40s - 50s	none
GP-2 (12') with filter		--	0.0	4.7	11.2	0.0	0		
GP-2 (16') without filter		13:58	0.0	2.1	12.1	0.0	0		
GP-2 (16') with filter		13:58	0.0	2.0	11.9	0.0	0		
GP-2 (12') without filter	12/4/2012	16:03	0.0	6.6	9.6	0.0	0	50s	rainy (~0.3 inches)
GP-2 (12') with filter		--	0.0	6.7	8.5	0.0	0		
GP-2 (16') without filter		16:08	--	6.1	10.3	0.0	0		
GP-2 (16') with filter		--	--	6.4	9.2	0.0	0		
GP-2 (12') without filter	12/13/2012	13:44	0.0	6.6	9.7	0.0	0	40s	none
GP-2 (12') with filter		--	0.0	6.9	9.3	0.1 U	2 U		
GP-2 (16') without filter		13:39	0.0	3.7	11.8	0.0	0		
GP-2 (16') with filter		--	0.0	4.1	10.2	0.1 U	2 U		
GP-2 (12') without filter	12/18/2012	13:30	0.0	8.2	9.2	0.0	0	40s	none
GP-2 (12') with filter		--	0.0	8.1	8.9	0.0	1 <sup>[1]</sup>		
GP-2 (16') without filter		--	0.0	5.8	10.8	0.0	0		
GP-2 (16') with filter		--	0.0	5.7	10.4	0.0	1 <sup>[1]</sup>		
GP-2 (12') without filter	1/24/2013	15:34	0.0	19.9	2.6	0.0	0.0	20s	none
GP-2 (12') with filter		15:34	0.0	18.6	2.2	0.0	0.0		
GP-2 (16') without filter		15:40	0.0	15.3	7.7	0.0	0.0		
GP-2 (16') with filter		15:40	0.0	16.9	1.6	0.0	0.0		
GP-2 (12') without filter	1/31/2013	13:50	0.0	17.5	5.0	0.0	0.0	10s - 20s	none
GP-2 (12') with filter		13:50	0.0	17.1	4.2	0.0	0.0		
GP-2 (16') without filter		13:55	0.0	16.8	5.0	0.0	0.0		
GP-2 (16') with filter		13:55	0.0	17.2	3.4	0.0	0.0		
GP-2 (12') without filter	2/7/2013	15:14	0.0	15.4	5.4	0.0	0.0	20s - 50s	none
GP-2 (12') with filter		15:14	0.0	16.0	3.5	0.0	0.0		
GP-2 (16') without filter		15:17	0.0	15.0	6.4	0.0	0.0		
GP-2 (16') with filter		15:17	0.0	15.3	4.5	0.0	0.0		
GP-2 (12') without filter	2/12/2013	12:30	0.1	9.2	8.8	0.0	0.0	30s - 40s	none
GP-2 (12') with filter		12:30	0.1	9.7	8.4	0.0	0.0		
GP-2 (16') without filter		12:45	0.0	7.5	9.1	0.0	0.0		
GP-2 (16') with filter		12:45	0.0	6.9	8.2	0.0	0.0		
GP-2 (12') without filter	2/21/2013	13:45	0.0	8.8	8.5	0.0	0.0	20s	trace
GP-2 (12') with filter		13:45	0.0	9.1	8.0	0.0	0.0		
GP-2 (16') without filter		13:50	0.0	6.9	7.0	0.0	0.0		
GP-2 (16') with filter		13:50	0.0	7.0	6.7	0.0	0.0		



TABLE 3

**GP-2 FIELD MONITORING VALUES  
SOUTH DAYTON DUMP AND LANDFILL SITE  
MORaine, OHIO**

<i>Sample Location:</i>	<i>Date:</i>	<i>Time</i>	<i>PID (ppm)</i>	<i>O<sub>2</sub> (%)</i>	<i>CO<sub>2</sub> (%)</i>	<i>CH<sub>4</sub><sup>[2]</sup> (%)</i>	<i>LEL (%)</i>	<i>Ambient Temperature (°F)</i>	<i>Summary of Recent Precipitation</i>
GP-2 (12') without filter	2/28/2013	12:45	0.0	15.8	4.9	0.0	0.0	30s - 40s	~1 inch
GP-2 (12') with filter		12:45	0.0	15.8	5.1	0.0	0.0		
GP-2 (16') without filter		12:49	0.0	13.6	6.2	0.0	0.0		
GP-2 (16') with filter		12:49	0.0	13.5	6.2	0.0	0.0		
GP-2	3/7/2013	Inaccessible due to snow cover from road plow activity						30s	None
GP-2 (12') without filter	3/14/2013	13:45	0.0	16.2	4.3	0.0	0.0	20s - 40s	None
GP-2 (12') with filter		13:45	0.0	16.1	4.4	0.0	0.0		
GP-2 (16') without filter		13:53	0.0	13.9	6.1	0.0	0.0		
GP-2 (16') with filter		13:53	0.0	13.9	6.2	0.0	0.0		
GP-2 (12') without filter	3/21/2013	12:20	0.0	15.9	3.8	0.0	0.0	20s - 30s	Trace
GP-2 (12') with filter		12:20	0.0	15.9	3.9	0.0	0.0		
GP-2 (16') without filter		12:26	0.0	14.2	5.7	0.0	0.0		
GP-2 (16') with filter		12:26	0.0	14.1	5.9	0.0	0.0		
GP-2 (12') without filter	3/28/2013	12:10	0.0	14.6	6.1	0.0	0.0	30s - 40s	None
GP-2 (12') with filter		12:10	0.0	14.4	6.3	0.0	0.0		
GP-2 (16') without filter		12:15	0.0	12.9	7.4	0.0	0.0		
GP-2 (16') with filter		12:15	0.0	12.9	7.5	0.0	0.0		

## Notes:

<sup>[1]</sup> - The explosive gas monitor baseline reading was 1 percent LEL. The meter did not zero for LEL readings and the corresponding methane readings were 0 percent; therefore, the readings of 1 percent are anomalous.

<sup>[2]</sup> - The Landtec GEM 2000 combustible gas monitor measures explosive gases as a percent of methane by volume. The presence of other hydrocarbon gases affects methane readings.

PID - Photoionization Detector

O<sub>2</sub> - Oxygen

CO<sub>2</sub> - Carbon Dioxide

CH<sub>4</sub> - Methane

LEL - Lower Explosive Limit

NM - Not measured

U - Qualified as non-detect due to issues with the filter

**Value** - Value is greater than screening levels for rapid response (USEPA, 2010).