

13 March 2013

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New York State Department of Environmental Conservation
Division of Environmental Remediation - Region 9
270 Michigan Avenue
Buffalo, New York 14203



RE: Monthly Progress Report – February 2013
Greif, Inc. Facility – Tonawanda, New York
NYSDEC VCP Number V00334-9

***Key Actions
This Period:***

- Substantial completion of remedial construction for expansion/modifications to the Sub-Slab Depressurization (SSD) System.
- Collection of co-located sub-slab and indoor air samples at vacuum monitoring point VAC-09 and an outdoor ambient air sample.
- Site survey of newly-constructed SSD System features including new suction points, vacuum monitoring points, and associated piping and site features.
- Performed routine operations and maintenance (O&M) on the SSD System. Collected and recorded relevant data. Table 1 summarizes historic water level and product level measurements. Data collected this month included vacuum readings in vacuum monitoring points (Table 2) and treatment system operational data (Table 3). The locations of sampling and monitoring points are presented in Figure 1. A map showing the estimated distribution of vacuum beneath the main building's floor slab on 22 February 2013 is presented in Figure 2.
- Continued repairs of monitoring well protective covers.

***Changes/
Problems/
Resolutions:***

- Due to anticipated decreased O&M requirements as a result of moving the SSD System into the main building's mezzanine level, future O&M site visits will be performed every other month moving forward.

**Analytical
 Data Received:**

- Receipt of laboratory analytical results for influent and effluent vapor samples, sub-slab, indoor ambient air, and outdoor ambient air samples. Table 4 presents a summary of air samples collected at the Site in January and February 2013. Table 5 summarizes laboratory analytical results for sub-slab vapor, indoor air, and outdoor air samples. Table 6 summarizes laboratory analytical results for SSD system influent and effluent air samples. Trichloroethene (TCE) and 1,1,1-trichloroethane (1,1,1-TCA) are the primary chlorinated volatile organic compounds present in affected soil and groundwater beneath portions of the floor slab. Concentrations of TCE and 1,1,1-TCA detected in indoor air samples are six to seven orders of magnitude below United States Occupational Safety and Health Administration (OSHA) time-weighted average Permissible Exposure Levels (PELs) as summarized below. All values below are reported in parts-per-million. Sample DUP is a blind duplicate of the indoor air sample collected at location VAC-27.

	OSHA PEL	VAC-09	VAC-27	DUP	VAC-30
TCE	100	0.000033	0.000143	0.000156	0.000317
1,1,1-TCA	350	0.000067	0.000403	0.000449	0.000145

**Documents
 Submitted:**

- Monthly Progress Report for January 2013 dated 11 February 2013.

**Anticipated
 Actions –
 March 2013:**

- Preparation of an updated survey map for the Site and technical assistance with a deed restriction.
- Perform air emissions evaluation to determine if activated carbon controls are still necessary for SSD System exhaust.
- Evaluation of SSD System test data.
- Continued repair of damaged protective covers for monitoring wells.
- Complete waste characterization activities and transport of remedial wastes from the Site.
- Perform routine O&M and collect relevant data.

**NYSDEC-
Approved Field
Decisions:**

- None.

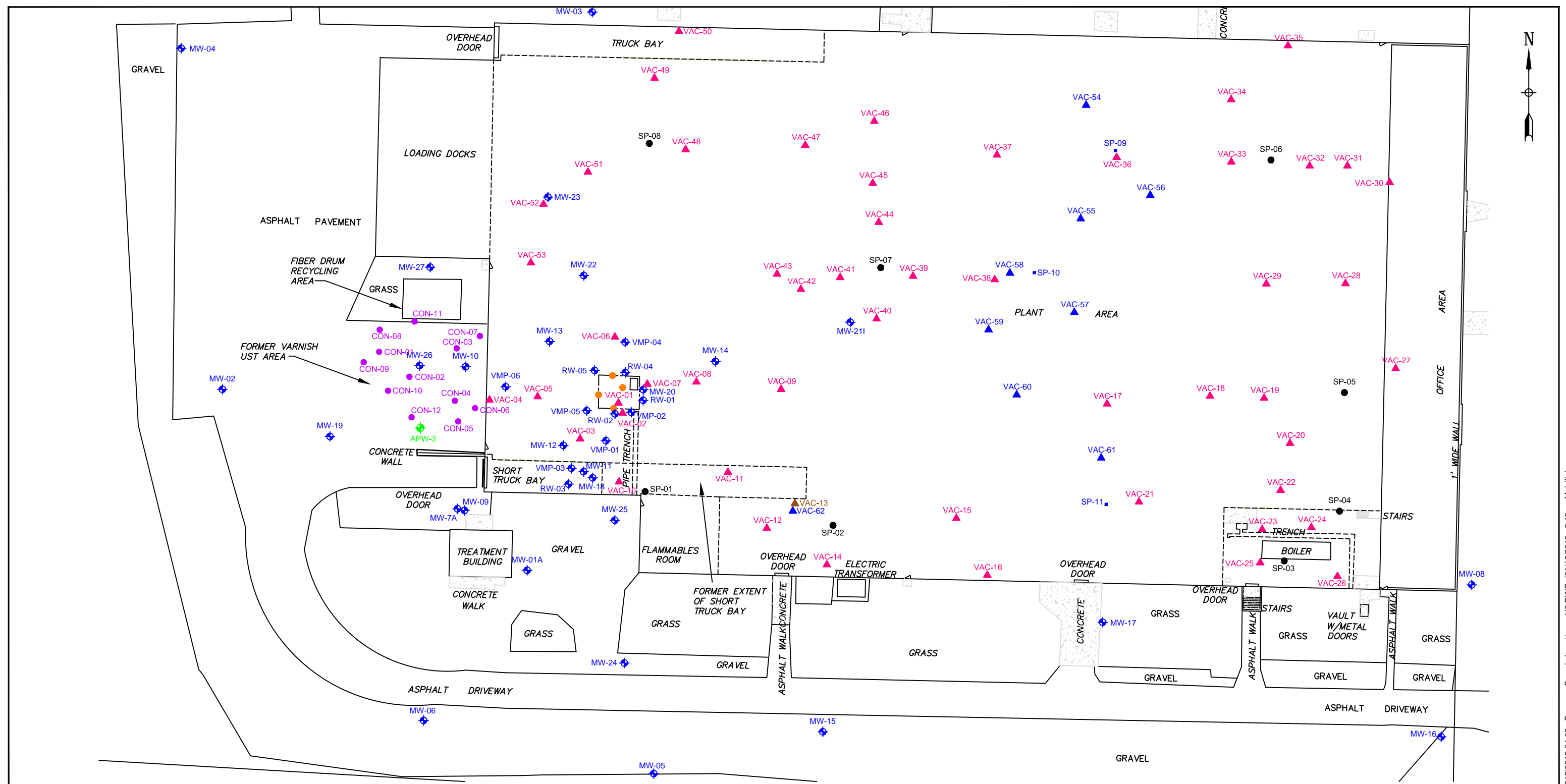
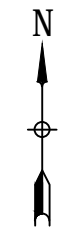
Prepared By:



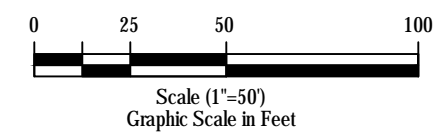
Jon S. Fox, P.G.
Senior Consultant

Date: 13 March 2013

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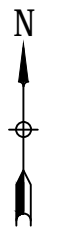


- LEGEND**
- ▲ Vacuum Monitoring Point Location
 - ◆ Monitoring or Recovery Well Location
 - ◆ Antenna Placement Well
 - Vertical Suction Point Location
 - Horizontal Suction Point Location
 - Soil Confirmation Location
 - Former Varnish Pit
 - ▲ Man Door
 - Concrete Pad
 - Approximate Suction Point Location
 - ▲ Approximate Vacuum Monitoring Point Location
 - ▲ Removed



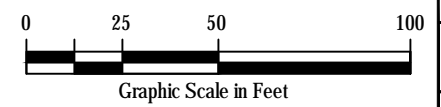
TITLE SAMPLE AND MEASUREMENT LOCATIONS GREIF FACILITY-TONAWANDA, NEW YORK NYSDEC VCP NUMBER V00334-9			
PREPARED FOR SONOCO PRODUCTS COMPANY			
Environmental Resources Management		FIGURE 1	
DRAWN BY	SCALE	DATE	JOB NO.
EMF	GRAPHIC	15 January 2013	0129254-01

Map Source: Wm. Schutt & Associates, P.C., 37 Central Ave, Lancaster, NY. Survey File: D/01351/03, WSA Proj.#01351.



- LEGEND**
- Horizontal Suction Point Location
 - Vertical Suction Point Location
 - ▲ Vacuum Monitoring Point Location (vacuum in " H₂O)
 - NM Not Measured
 - Estimated Extent of Sub-Floor Vacuum
 - Former Varnish Pit
 - Man Door
 - Concrete Pad
 - Approximate Suction Point Location
 - ▲ Approximate Vacuum Monitoring Point Location (vacuum in " H₂O)
 - ▲ Removed

NOTES:
 1. " H₂O = inches of water column



TITLE SUBSURFACE VACUUM DISTRIBUTION 22 FEBRUARY 2013 GREIF FACILITY-TONAWANDA, NEW YORK			
PREPARED FOR SONOCO PRODUCTS COMPANY			
Environmental Resources Management		FIGURE 2	
DRAWN BY	SCALE	DATE	JOB NO.
EMF	GRAPHIC	06 March 2013	0129254.01

Table 1
Summary of Non-Aqueous Phase Liquid Thicknesses in Wells
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

WELL	RW-1 (ft.) (DNAPL)	RW-2 (ft.) (DNAPL)	RW-4 (ft.) (DNAPL)	RW-5 (ft.) (LNAPL)	RW-6 (ft.) (DNAPL)	VMP-2 (ft.) (DNAPL)	VMP-5 (ft.) (DNAPL)	MW-20 (ft.) (DNAPL)	MW-23 (ft.) (LNAPL)
Date									
19-May-08	0.00	0.00	0.00	0.00	NI	0.00	HS	0.09	0.14
30-May-08	0.00	0.16	0.00	0.00	NI	0.00	HS	0.03	0.14
16-Jun-08	0.00	0.14	0.00	0.02	NI	0.00	0.02	0.07	0.13
25-Jun-08	0.00	0.16	0.00	0.02	NI	0.00	HS	0.07	0.26
3-Jul-08	0.00	0.16	0.00	0.02	NI	0.00	HS	0.09	0.18
23-Jul-08	0.00	0.16	0.00	0.02	NI	0.00	HS	0.10	0.09
6-Aug-08	0.03	0.16	0.00	0.04	NI	0.00	HS	0.11	0.09
19-Aug-08	0.03	0.16	0.00	0.04	NI	0.00	HS	0.13	0.11
21-Nov-08	HS	0.11	0.00	0.00	NI	0.00	HS	0.22	0.29
17-Dec-08	HS	0.11	0.00	0.00	NI	0.00	HS	0.24	0.29
14-Jan-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	HS	0.13
26-Feb-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	0.01	0.24
12-Mar-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	0.00	0.09
22-Apr-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	0.00	0.11
13-May-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	0.00	0.09
25-Jun-09	NM	0.00	NM	0.00	NI	0.00	0.00	NM	0.12
17-Jul-09	NM	0.00	NM	0.00	NI	0.00	0.00	NM	0.11
27-Aug-09	0.00	0.00	0.00	0.00	NI	0.00	NM	NM	0.09
25-Sep-09	0.00	0.00	0.00	0.00	NM	0.00	NM	0.04	0.11
16-Oct-09	NM	0.00	0.00	0.00	NM	0.00	NM	NM	0.11
19-Nov-09	NM	0.00	NM	NM	NM	0.00	NM	NM	0.21
17-Dec-09	0.00	0.00	NM	NM	NM	0.00	0.00	0.01	0.23
14-Jan-10	0.00	0.00	0.00	NM	NM	0.00	0.00	0.01	0.21
17-Feb-10	0.00	0.00	NM	NM	NM	0.00	0.00	0.01	0.17
18-Mar-10	0.00	0.00	0.00	0.00	NM	0.00	0.00	0.01	0.09
13-Apr-10	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.01	0.12
18-May-10	0.00	0.00	0.00	0.00	0.53	0.00	NM	0.01	0.08
15-Jun-10	0.00	0.00	0.00	NM	0.01*	0.00	0.00	0.01	0.07
14-Jul-10	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.07
13-Aug-10	0.00	NM	0.00	NM	0.08	0.00	0.00	HS	0.10
14-Sep-10	0.00	NM	0.00	NM	0.04	0.00	0.00	NM	0.06
14-Oct-10	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.01	0.08
22-Nov-10	0.00	0.00	NM	0.00	0.04	0.00	0.00	0.01	0.14
15-Dec-10	0.00	0.00	0.00	NM	0.01	0.00	NM	0.01	0.09
18-Jan-11	0.00	0.00	0.00	NM	HS	0.00	NM	0.02	0.09
21-Feb-11	NM	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.04
11-Mar-11	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.04	0.03
21-Apr-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
24-May-11	0.00	0.00	0.00	NM	0.15	0.3	0.00	0.1	0.1
21-June-11	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.03	0.08
21-July-11	0.00	0.00	0.00	NM	HS	0.00	0.00	0.01	0.06
29-Aug-11	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	HS
26-Sept-11	0.00	NM	0.00	0.00	0.10	0.00	NM	0.04	HS
28-Oct-11	0.00	0.00	NM	0.00	0.03	0.00	0.00	0.02	HS
18-Nov-11	0.00	0.00	NM	NM	HS	0.00	0.00	0.01	0.04
22-Dec-11	0.00	0.00	NM	NM	0.03	0.00	0.00	0.02	0.06
20-Jan-12	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.02	HS
21-Feb-12	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.03	HS
16-Mar-12	0.00	0.00	0.00	0.00	HS	0.00	0.00	HS	0.15
20-Apr-12	0.00	0.00	NM	NM	HS	0.00	0.00	0.02	0.02
17-May-12	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.01	0.03
20-Jun-12	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.01	0.04
20-Jul-12	NM	0.00	NM	0.00	HS	0.00	0.00	NM	0.02
21-Aug-12	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.12	0.19
14-Sept-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09
17-Oct-12	0.00	0.00	0.00	0.00	0.11	0.00	NM	0.14	0.09
20-Nov-12	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.02	HS
19-Dec-12	0.00	0.00	NM	0.00	HS	0.00	0.00	0.03	0.06
24-Jan-13	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.03	0.09
22-Feb-13	NM	NM	NM	NM	NM	NM	NM	NM	NM

Notes:

All values are reported in feet as measured with an electronic interface probe.

HS - heavy sheen but no measureable thickness.

NM - not measured

NI - not installed as of this date.

* - Product level after ERM initiated DNAPL recovery test

Table 2
Summary of Vacuum Readings
Greif, Inc. - Tonawanda, NY
NYSEDEC VCP Number V00334-9

Location	Vac-01	Vac-02	Vac-03	Vac-04	Vac-05	Vac-06	Vac-07	Vac-08	Vac-09	Vac-10	Vac-11	Vac-12	Vac-13	Vac-14
Date														
16-Jun-10	0.1175	0.1375	0.1375	0	0.1425	0.1625	0.095	0.0325	0	0.10	0.0950	0	NM	0
14-Jul-10	1.65	1.45	0.47	0	0.68	0.46	0.125	0.0525	0	0.1625	0.16	0	0	0
13-Aug-10	1.3	1.25	0.46	0	0.65	0.45	0.135	0.07	0	0.19	0.175	0	0	NM
14-Sep-10	0.8	NM	0.29	0	0.28	0.195	0.055	0.015	0	NM	0.125	0	0	0
14-Oct-10	0.82	0.84	0.29	0	0.28	0.185	0.05	0.015	0	0.1375	0.12	0	0	NM
22-Nov-10	0.29	2.3	0.49	0	0.35	0.28	0.105	0.0025	0	0.155	0.135	0	NM	NM
16-Dec-10	0.26	2.1	0.42	0	0.2	0.14	0.075	0	0	0.13	0.105	0	0	NM
19-Jan-11	0.77	2	0.41	0	0.24	0.18	0.1	NM	0	0.155	0.125	0	NM	0
21-Feb-11	1.35	1.8	0.4	0	NM	0.17	0.1	0	0	NM	0.12	NM	0	0
11-Mar-11	1.8	2.25	0.5	0	NM	0.22	NM	0.01	0	NM	0.12	0	0	NM
21-Apr-11	1.35	2	0.45	0	0.25	0.2	0.1025	0	0	0.155	0.135	0	0	0
24-May-11	2.15	2.05	0.47	0	0.35	0.28	0.1325	0.0275	0	0.1625	0.15	0	NM	0
21-Jun-11	2.05	2.1	0.46	0	0.45	0.4	0.165	0.0575	0	0.19	0.18	0	NM	0
21-Jul-11	2.55	2.25	0.46	0	0.62	0.55	0.2	0.1	0	0.21	0.21	0	0	0
29-Aug-11	2.3	2.2	0.44	0	0.48	0.4	0.155	0.055	0	0.15	0.145	0	0	0
26-Sep-11	1.3	NM	0.46	0	0.44	0.36	0.155	0.06	0	0.1775	0.16	0	0.0025	0
28-Oct-11	1	1.6	0.33	0	0.2125	0.195	0.0925	0.005	0	0.1125	0.1	0	0	0
18-Nov-11	NM	1.3	0.28	0	0.135	0.13	0.06	0.005	0	0.1	0.09	0	0	0
22-Dec-11	1.58	1.464	0.343	0	0.245	0.171	0.069	0.008	0	0.114	0.097	0.002	0.006	0
20-Jan-12	1.395	1.432	0.315	0	0.249	0.174	0.067	0.008	0	0.108	0.094	0.005	0.01	0
21-Feb-12	1.464	1.22	0.244	0	0.179	0.128	0.041	0.004	0	0.102	0.09	0.001	0.003	0
16-Mar-12	1.102	1.438	0.227	0	0.267	0.206	0.051	0.011	0	NM	0.101	0	0.006	0
20-Apr-12	1.81	NM	0.844	0.001	0.241	NM	0.057	0.007	0	0.104	0.1	0.002	0.003	0
17-May-12	1.421	1.364	0.306	0	0.265	0.185	0.059	0.01	0.01	NM	0.01	0.001	0.006	NM
20-Jun-12	1.783	1.861	0.439	0	0.247	0.375	0.107	0.038	0.002	NM	0.161	0.002	0.009	0
20-Jul-12	1.621	1.781	0.439	0	0.247	0.331	0.048	0.035	0	NM	0.1	0.001	0.007	0
21-Aug-12	1.591	1.846	0.436	0	0.241	0.242	0.092	NM	0	0.145	0.145	0.002	0.007	0.003
14-Sep-12	2.06	2.43	0.618	0	0.57	0.441	0.139	0.047	0.002	0.204	0.167	0.002	0.008	0
17-Oct-12	1.486	1.578	0.366	0	0.22	0.172	0.055	0.006	0	0.12	0.111	0	0.004	0
20-Nov-12	1.539	1.498	0.349	0	0.266	0.142	0.057	0.007	0	0.126	0.116	0.002	NM	0
11-Dec-12	1.348	1.275	0.3	0	0.2	0.148	0.05	0.007	0	0.106	0.096	0.002	NM	-0.001
24-Jan-13	0.009	1.957	0.454	0	0.281	0.173	0.08	0.009	0	0.023	0.022	0.004	NM	0
22-Feb-13	0.024	1.99	0.457	0	0.311	0.2	0.077	0.01	0	0.025	0.018	0.002	NM	0

Location	Vac-15	Vac-16	Vac-17	Vac-18	Vac-19	Vac-20	Vac-21	Vac-22	Vac-23	Vac-24	Vac-25	Vac-26	Vac-27	Vac-28
Date														
16-Jun-10	0	NM	0.0025	0.25	0.42	0.175	0	0.0075	0	0	0.089	0.020	0.005	0.0175
14-Jul-10	0	0	NM	0.31	0.54	0.205	0	0	NM	NM	NM	NM	0.005	0.01
13-Aug-10	0	0	0.0025	0.31	0.52	NM	0	0	0	0	0.08	0.02	0.005	0.025
14-Sep-10	0	0	0	0.165	0.31	0.075	0	0	0	0	0.08	0.015	0.005	0.005
14-Oct-10	NM	0	0	0.18	0.35	0.105	0	0	0	0	0.08	0.015	0.0025	0.005
22-Nov-10	0	0	0	0.2	0.35	0.1	0	0	0	0	0.08	0.02	0.0025	0.0025
16-Dec-10	0	0	0	0.145	0.29	0.08	0	0	0	0	0.055	0.01	0	0.0025
19-Jan-11	0	0	0	0.15	0.29	0.08	0	0	0	0	0.075	0.02	0	0.0075
21-Feb-11	0.005	0	NM	0.18	0.35	NM	0	0.0125	0	0	0.0675	0.035	0.015	0.01
11-Mar-11	0	0	0	0.1875	0.34	0.12	0	0	0	0	0.08	0.025	0.01	0.02
21-Apr-11	0	0	0	0.18	0.32	0.105	0	0.01	0	0	0.08	0.0325	0.01	0.0125
24-May-11	0	0	0	0.215	0.36	0.1475	0	0	0	0	0.0775	0.03	0.015	0.0175
21-Jun-11	0	0	NM	0.23	0.39	0.16	0	0	0	0	0.085	0.03	0.02	0.02
21-Jul-11	0	0	NM	0.24	0.39	0.17	0	0.0175	0	0	0.1	0.025	0.02	0.035
29-Aug-11	0	0	NM	0.21	0.32	0.12	0	0	0	0	0.09	0.0225	0.0175	0.02
26-Sep-11	0	0	NM	0.205	0.32	0.12	0.0025	0	0	0	0.0725	0.025	0.0175	0.0175
28-Oct-11	0	0	0	0.15	0.24	0.0525	0	0	0	0	0.08	0.03	0.01	0.01
18-Nov-11	0	0	0	0.14	0.21	0.06	0	0.0075	0	0	0.085	0.0275	0.015	0.015
22-Dec-11	0	0	0.003	0.138	0.227	0.06	0	0.01	0	0.003	0.083	0.024	0.012	0.009
20-Jan-12	0	0	0.001	0.135	0.222	0.064	0	0.01	0	0	0.078	0.022	0.01	0.007
21-Feb-12	0	0	0.001	0.105	0.186	0.045	-0.001	0.006	0	0	0.077	0.021	0.01	0.004
16-Mar-12	0	0	0.001	0.0153	0.256	0.085	-0.001	0.005	0	0	0.061	0.023	0.014	0.009
20-Apr-12	0	0	0.001	0.141	0.202	0.051	0	0.003	0	0	0.075	0.001	0.017	0.014
17-May-12	0	0	0.001	0.131	0.007	0.062	0	0	0	0.001	0.079	0.022	0.017	0.006
20-Jun-12	0	0	0.001	0.128	0.16	0.003	0	0.003	0	0.004	0.098	0	0.022	0.017
20-Jul-12	0	0	0.004	0.105	0.201	0.083	0	0.001	0	0.003	0.093	0.029	0.016	0.013
21-Aug-12	0	0	0.003	0.131	0.171	0.072	0	0	0	0.004	0.091	0.026	0.012	0.009
14-Sep-12	0	0	0.007	NM	NM	NM	0	0.009	0	0.004	0.093	0.023	0.015	0.015
17-Oct-12	0	0	0.001	0.123	0.212	0.07	0	0.001	0	0.004	0.081	0.024	0.009	0.006
20-Nov-12	0	0	0.001	0.122	0.207	0.067	-0.001	0.004	0	0.004	0.085	0.025	0.01	0.005
11-Dec-12	0	0	NM	0.082	0.139	0.019	0	0.005	0	0.002	0.079	0.023	0.008	0.005
24-Jan-13	0	-0.001	0.003	0.067	0.114	0.038	0	0.011	0	0.002	0.081	0.026	0.007	0.006
22-Feb-13	0	0	0.001	0.065	0.111	0.037	0	0.009	0	0.001	0.078	0.027	0.009	0.004

Table 2
Summary of Vacuum Readings
Greif, Inc. - Tonawanda, NY
NYSDEC VCP Number V00334-9

Location	Vac-29	Vac-30	Vac-31	Vac-32	Vac-33	Vac-34	Vac-35	Vac-36	Vac-37	Vac-38	Vac-39	Vac-40	Vac-41	Vac-42
Date														
16-Jun-10	0.040	0	0	0.040	0.0675	0.0225	NM	0	0.030	NM	0.025	0.0275	0.0525	0.0025
14-Jul-10	NM	NM	NM	NM	0.125	0.0325	0	0	0	NM	0.03	0.0325	NM	0.005
13-Aug-10	0.0725	0	0.0375	0.0875	0.1625	0.05	0	0	0	0	0.05	0.04	0.0875	0.015
14-Sep-10	0.025	0	0.01	0.03	0.06	0.015	0	0	0	0	0.02	0.0075	0.025	0.0025
14-Oct-10	0.025	0	0.005	0.03	0.055	0.01	0	0	0	0	0.01	0.01	0.025	NM
22-Nov-10	0.015	0	0.0025	0.025	0.065	0.01	0	NM	0	0	0.005	NM	0.015	NM
16-Dec-10	0.02	NM	0.005	0.035	0.055	0.015	0	NM	0	0	0.005	NM	0.0125	NM
19-Jan-11	0.02	NM	0.0075	0.03	0.04	0.015	0	0	0	0	0.01	NM	0.0125	NM
21-Feb-11	0.015	0	0.01	0.035	0.0325	NM	NM	0	0	0.0025	0.015	0.01	0.0175	NM
11-Mar-11	0.02	0	0.02	0.0425	0.0625	0.03	0	0	0	0	0.0225	0.02	0.02	NM
21-Apr-11	0.0175	0	0.01	0.035	0.06	NM	NM	0	0	0	0.01	0.005	0.0125	0
24-May-11	0.0325	0	0.0225	0.0525	0.075	NM	NM	0	0	NM	0.0125	NM	0.035	0
21-Jun-11	0.04	0	0.03	0.075	0.11	0.04	NM	0	0	0	0	0.0225	0.0425	0
21-Jul-11	0.055	0	0.05	0.1025	0.17	0.06	0	0.0125	0	0	0.0325	0.035	0.08	0.0075
29-Aug-11	0.0375	0	0.0325	0.07	0.13	0.0375	0	0	0	0	NM	0.02	0.035	0.05
26-Sep-11	0.045	0	0.03	0.06	0.1175	0.035	0	0	NM	0	0	NM	NM	0.01
28-Oct-11	NM	0	0.0075	0.0375	0.0775	0.0775	NM	0	0	0	0.0075	0.005	0.01	NM
18-Nov-11	NM	0	0.01	0.0325	0.065	0.0175	NM	0	0	0	0.0075	0	0.01	NM
22-Dec-11	0.014	0.005	0.012	0.032	0.077	0.021	0	0	0	0	0.008	0.011	0.014	0.001
20-Jan-12	0.011	-0.003	0.012	0.032	0.064	0.018	0	0	0	0	0.007	0.008	0.012	0.001
21-Feb-12	0.009	-0.002	0.007	0.023	0.054	0.016	NM	0	0	0	0.006	0.007	0.009	NM
16-Mar-12	0.013	0	0.013	0.034	0.076	0.02	0	0	0	0	0.01	0.011	0.017	NM
20-Apr-12	0.019	0.007	0.015	0.035	0.021	0	0	0	0	0	0.689	0.119	0.001	NM
17-May-12	0.004	0.005	0.008	0.025	0.071	0.016	NM	0.001	0	0	0.001	0.01	0.009	NM
20-Jun-12	0.027	0	0.008	0.073	0.135	0.038	NM	0.004	0	0.001	NM	0.016	0.03	0.033
20-Jul-12	0.022	0.001	0.023	NM	0.102	0.026	NM	0.001	0	0.001	0.012	0.016	0.019	NM
21-Aug-12	0.019	0	0.016	0.037	0.091	0.025	NM	0.001	0	0	0.001	0.013	0.002	0.001
14-Sep-12	0.032	0	0.013	0.064	0.138	0.037	0	0.002	0	0	0.013	0.017	0.032	0.004
17-Oct-12	0.014	-0.001	0.009	0.025	0.071	0.02	0	0	0	0	0.011	0.009	0.03	0.002
20-Nov-12	0.014	0	0.01	0.008	0.063	0.019	0	0	0	0	0.009	0.009	0.033	0.001
11-Dec-12	0.01	-0.001	0.007	0.005	0.045	0.013	NM	0.002	0.001	0.017	0.008	0.007	0.01	0.002
24-Jan-13	0.009	-0.003	0.012	0.032	0.066	0.017	-0.003	0.007	0.004	0.053	0.013	0.015	0.019	0.004
22-Feb-13	0.007	0	0.01	0.031	0.067	0.019	-0.01	0.007	0.005	0.066	0.015	0.015	0.017	0.001

Location	Vac-43	Vac-44	Vac-45	Vac-46	Vac-47	Vac-48	Vac-49	Vac-50	Vac-51	Vac-52	Vac-53	Vac-54	Vac-55	Vac-56
Date														
16-Jun-10	0.0025	0.0425	0.015	0.0125	NM	0.2125	0.0925	0	0.080	0.0125	0.0125	NI	NI	NI
14-Jul-10	0	NM	NM	0.0125	NM	0.21	0.0875	NM	0.8	0.0175	0.0225	NI	NI	NI
13-Aug-10	0	NM	NM	NM	NM	0.22	0.0925	0	0.085	NM	0.0225	NI	NI	NI
14-Sep-10	0	NM	NM	0.0025	NM	0.1275	0.05	0	0.04	0.005	0	NI	NI	NI
14-Oct-10	NM	NM	0	NM	NM	0.11	0.0375	0	0.03	0	0	NI	NI	NI
22-Nov-10	0	NM	0	0	NM	0.135	0.0475	0	0.03	0.0025	0	NI	NI	NI
16-Dec-10	0	0.015	0	0	NM	0.09	0.02	0	NM	0	0	NI	NI	NI
19-Jan-11	0	NM	0	0	NM	0.12	0.035	0	0.03	0.0025	0	NI	NI	NI
21-Feb-11	0	0.0325	0.01	0	0	0.125	0.035	0	0.03	0	0	NI	NI	NI
11-Mar-11	0	NM	0.02	NM	0.005	0.16	0.0575	NM	0.05	0.03	0.01	NI	NI	NI
21-Apr-11	0	NM	0	NM	0	0.1375	0.045	NM	0.025	0	0	NI	NI	NI
24-May-11	0	0.03	0.005	NM	0.0075	0.175	0.06	0	0.055	0.005	0.0125	NI	NI	NI
21-Jun-11	NM	NM	0.0175	NM	0.02	0.195	0.0675	0	0.065	0.0175	0.03	NI	NI	NI
21-Jul-11	0.0125	0.0525	0.0375	0.025	0.035	0.235	0.0875	0	0.07	0.02	0.06	NI	NI	NI
29-Aug-11	0	0.0325	NM	NM	NM	0.185	0.07	0	0.06	0.03	0.09	NI	NI	NI
26-Sep-11	0.0075	NM	0.005	NM	0.0125	0.17	0.07	0	0.055	0.175	0.0325	NI	NI	NI
28-Oct-11	0	0.0075	0	NM	0.0075	0.1225	0.03	0	0.03	0	0.0025	NI	NI	NI
18-Nov-11	0	NM	0	0	0	0.09	0.03	0	0.0275	0.005	0.005	NI	NI	NI
22-Dec-11	0.001	0.014	0.001	0.004	0.005	0.131	0.036	0.001	0.034	0.009	0.01	NI	NI	NI
20-Jan-12	0.001	0.012	0.004	0.004	0.006	0.131	0.037	0.001	0.031	0.007	0.007	NI	NI	NI
21-Feb-12	0.002	NM	0.003	0.002	0.004	0.114	0.026	0.001	0.026	0.008	0.009	NI	NI	NI
16-Mar-12	NM	0.016	0.008	0.004	0.008	0.124	0.034	0.001	0.032	0.017	0.014	NI	NI	NI
20-Apr-12	0.001	0.014	0.006	0.001	0.003	NM	0.031	0.001	0.03	0.009	0.014	NI	NI	NI
17-May-12	NM	0.01	0.005	0.003	0.006	0.11	0.031	0	0.032	0.005	0.011	NI	NI	NI
20-Jun-12	NM	0.027	0.014	0.009	0.003	0.164	0.06	0	0.054	0.019	0.039	NI	NI	NI
20-Jul-12	NM	0.024	0.002	0.009	0.005	0.151	0.035	0	0.033	0.013	0.032	NI	NI	NI
21-Aug-12	0.003	0.019	0.008	0.003	0.006	0.147	0.045	0	0.044	0.01	0.02	NI	NI	NI
14-Sep-12	NM	0.03	0.013	0.01	NM	0.164	0.061	0	0.059	0.02	0.4	NI	NI	NI
17-Oct-12	0.001	0.014	0.004	0.008	0.004	0.108	0.03	0	0.03	0.004	0.007	NI	NI	NI
20-Nov-12	NM	0.016	0.004	0.009	0.005	0.118	0.033	0	0.037	0.004	0.008	NI	NI	NI
11-Dec-12	0.001	0.01	0.003	0.003	NM	0.084	0.02	0	0.021	0.002	0.005	0.055	0.065	0.006
24-Jan-13	0.001	0.02	0.009	0.006	0.007	0.147	0.044	0.002	0.04	0.01	0.008	0.158	0.178	0.012
22-Feb-13	0.001	0.016	0.005	0.008	0.008	0.134	0.04	0	0.037	0.007	0.01	0.156	0.186	0.011

Table 2
Summary of Vacuum Readings
Greif, Inc. - Tonawanda, NY
NYSDEC VCP Number V00334-9

Location	Vac-57	Vac-58	Vac-59	Vac-60	Vac-61	Vac-62
Date						
16-Jun-10	NI	NI	NI	NI	NI	NI
14-Jul-10	NI	NI	NI	NI	NI	NI
13-Aug-10	NI	NI	NI	NI	NI	NI
14-Sep-10	NI	NI	NI	NI	NI	NI
14-Oct-10	NI	NI	NI	NI	NI	NI
22-Nov-10	NI	NI	NI	NI	NI	NI
16-Dec-10	NI	NI	NI	NI	NI	NI
19-Jan-11	NI	NI	NI	NI	NI	NI
21-Feb-11	NI	NI	NI	NI	NI	NI
11-Mar-11	NI	NI	NI	NI	NI	NI
21-Apr-11	NI	NI	NI	NI	NI	NI
24-May-11	NI	NI	NI	NI	NI	NI
21-Jun-11	NI	NI	NI	NI	NI	NI
21-Jul-11	NI	NI	NI	NI	NI	NI
29-Aug-11	NI	NI	NI	NI	NI	NI
26-Sep-11	NI	NI	NI	NI	NI	NI
28-Oct-11	NI	NI	NI	NI	NI	NI
18-Nov-11	NI	NI	NI	NI	NI	NI
22-Dec-11	NI	NI	NI	NI	NI	NI
20-Jan-12	NI	NI	NI	NI	NI	NI
21-Feb-12	NI	NI	NI	NI	NI	NI
16-Mar-12	NI	NI	NI	NI	NI	NI
20-Apr-12	NI	NI	NI	NI	NI	NI
17-May-12	NI	NI	NI	NI	NI	NI
20-Jun-12	NI	NI	NI	NI	NI	NI
20-Jul-12	NI	NI	NI	NI	NI	NI
21-Aug-12	NI	NI	NI	NI	NI	NI
14-Sep-12	NI	NI	NI	NI	NI	NI
17-Oct-12	NI	NI	NI	NI	NI	NI
20-Nov-12	NI	NI	NI	NI	NI	NI
11-Dec-12	0.003	0.174	0.013	0	0.002	0.084
24-Jan-13	0.011	0.557	0.036	0.002	0.001	0.005
22-Feb-13	0.012	0.63	0.035	0.001	0	0.008

Notes:

- All vacuum and/or pressure readings are reported in inches of water column ("H2O).
- NM = Not measured; was covered with pallets or other surface obstructions.
- NI = Not installed.

Table 3
Summary of Treatment System Data
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9
Page 1 of 1

Location	Header Vacuum			Header Air Flow			Pre-Carbon			Post-Carbon			
	MAN-1	MAN-2	MAN-3	MAN-1	MAN-2	MAN-3	Pressure	Temp	PID	Pressure	Temp	PID	Flow
Units	" H ₂ O	" H ₂ O	" H ₂ O	cfm	cfm	cfm	" H ₂ O	°F	ppm	" H ₂ O	°F	ppm	cfm
Date													
24-Jan-13	3.55	3.6	3.35	297.92	162.68	370.44	23	94.5	0.0	0.789	118	0.0	417.48
22-Feb-13	3.4	3.4	3.3	252.84	147	299.88	22	96	0.0	0.794	120	0.0	295.96

Location Key

MAN-1 = Suction Pits 01, 02, interior former varnish pit, and horizontal suction points through former varnish pit's north, west, and south walls.
 MAN-2 = Suction Pits 05 and 11.
 MAN-3 = Suction Pits 06, 07, 08, 09, and 10

Notes:

- Vacuum and pressure data is reported in inches of water.
- Air flow data is based on measured air velocity and is reported in cubic feet per minute.
- Temperature data is reported in degrees fahrenheit.

**Table 4 - Summary of Air Samples Collected in January And February 2013
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9**

Sample Designation	Collection Date	Sample Description
GREIF-SSV-VAC-09	22-Feb-2013	Sub-Slab Vapor
GREIF-IDA-VAC-09	22-Feb-2013	Indoor Air
GREIF-SS-VAC-27	22-Jan-2013	Sub-Slab Vapor
GREIF-IDA-27	22-Jan-2013	Indoor Air
GREIF-DUP	22-Jan-2013	Duplicate of GREIF-IDA-27
GREIF-SS-VAC-30	22-Jan-2013	Sub-Slab Vapor
GREIF-IDA-30	22-Jan-2013	Indoor Air
GREIF-UPWIND SW	22-Jan-2013	Outdoor Air
GREIF-OA-NW	22-Feb-2013	Outdoor Air
GREIF-PRE-CARBON	22-Jan-2013	Vapors extracted from suction points SP-01, SP-02, and SP-05 thru SP-11
GREIF-EFFLUENT	22-Jan-2013	Vapors extracted from suction points SP-01, SP-02, and SP-05 thru SP-11 after treatment
GREIF-SP-03	22-Jan-2013	Vapors extracted from suction point SP-03
GREIF-SP-04	22-Jan-2013	Vapors extracted from suction point SP-04

**Table 5 - Summary Of Sub-Slab, Indoor Air, and Outdoor Air Sample Results
Preliminary Unvalidated Results
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9**

Compound	GREIF-SSV- VAC-09	GREIF-IDA- VAC-09	GREIF-SS- VAC-27	GREIF-IDA- 27	GREIF- DUP	GREIF-SS- VAC-30	GREIF-IDA- 30	GREIF- UPWIND SW	GREIF-OA- NW
Acetone	<115	42.3	126 D	164	169	194 D	94.8	6.89	3.66
Benzene	<30.9	0.952	<1.6	0.926	0.891	<1.28	0.93	<0.639	<0.639
2-Butanone	<28.5	1.71	147 D	50.7	57.5	150 D	2.57	<0.59	<0.59
Chloroethane	<25.5	<0.528	<1.32	<0.528	<0.528	<1.06	<0.528	<0.528	<0.528
Chloroform	<47.3	<0.977	<2.44	<0.977	<0.977	<1.95	<0.977	<0.977	<0.977
1,1-Dichloroethane	2420 D	<0.809	<2.02	<0.809	<0.809	<1.62	<0.809	<0.809	<0.809
1,2-Dichloroethane	<39.2	<0.809	<2.02	<0.809	<0.809	<1.62	<0.809	<0.809	<0.809
1,1-Dichloroethene	2580 D	<0.0793	<1.98	<0.793	<0.793	<1.59	<0.793	<0.793	<0.0793
cis-1,2-Dichloroethene	<38.4	<0.0793	<1.98	<0.793	<0.793	<1.59	<0.793	<0.793	<0.0793
trans-1,2-Dichloroethene	<38.4	<0.793	<1.98	<0.793	<0.793	<1.59	<0.793	<0.793	<0.793
Ethylbenzene	<42	4.39	2.66 D	2.85	2.99	2.75 D	2.91	<0.869	<0.869
Methylene chloride	<168	<3.47	<8.69	<3.47	<3.47	<6.95	8.75	<3.47	<3.47
4-Methyl-2-pentanone	<39.7	2.3	45.1 D	63.1	60.2	32.8 D	78.7	<0.82	<0.82
Tetrachloroethene	<65.6	<0.136	<3.39	<1.36	<1.36	<2.71	<1.36	<1.36	<0.136
Toluene	<36.5	2.54	4.86 D	4.48	4.3	6.22 D	5.65	<0.754	<0.754
1,1,1-Trichloroethane	11800 D	0.366	24.8 D	2.2	2.45	8.84 D	0.791	<0.109	<0.109
1,1,2-Trichloroethane	<52.8	<1.09	<2.73	<1.09	<1.09	<2.18	<1.09	<1.09	<1.09
Trichloroethene	5540 D	0.177	156 D	0.769	0.838	7.26 D	1.7	<0.107	<0.107
1,2,4-Trimethylbenzene	<47.6	<0.983	<2.46	<0.983	<0.983	<1.97	<0.983	<0.983	<0.983
Vinyl chloride	<24.7	<0.0511	<1.28	<0.511	<0.511	<1.02	<0.511	<0.511	<0.0511
o-Xylene	<42	4.33	<2.17	2.2	2.24	1.98 D	2.05	<0.869	<0.869
p/m-Xylene	<84.3	14.9	9.99 D	11.2	11	9.99 D	10.4	<1.74	<1.74

Notes:

All values reported in units of microgram per meter cubed ($\mu\text{g}/\text{m}^3$)

< - Compound not detected at concentrations greater than the listed number.

D - Concentration of analyte was quantified from diluted analysis.

Concentrations of TCE and 1,1,1-TCA detected in indoor air samples are six to seven orders of magnitude below OHSA time-weighted average PELs.

See the section of the report entitled "Analytical Data Received" for additional information.

**Table 6 - Summary of SSD System Sample Results
Preliminary Unvalidated Results
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9**

Compound	GREIF-PRE-CARBON	GREIF-EFFLUENT	GREIF-SP-03	GREIF-SP-04
Acetone	35.6 D	60.1 D	18.1 D	10.2 D
Benzene	<6.9	<13.9	<1.38	<1.38
2-Butanone	26.3 D	31 D	8.55 D	8.97 D
Chloroethane	<5.7	<11.5	<1.14	<1.14
Chloroform	<10.5	<21.2	<2.11	<2.11
1,1-Dichloroethane	136 D	131 D	<1.75	<1.75
1,2-Dichloroethane	<8.74	<17.6	<1.75	<1.75
1,1-Dichloroethene	507 D	519 D	<1.72	<1.71
cis-1,2-Dichloroethene	153 D	118 D	<1.72	<1.71
trans-1,2-Dichloroethene	<8.56	<17.2	<1.72	<1.71
Ethylbenzene	<9.38	<18.9	3.57 D	<1.88
Methylene chloride	<37.5	<75.7	<7.54	<7.5
4-Methyl-2-pentanone	<8.85	<17.8	<1.77	<1.77
Tetrachloroethene	<14.6	<29.5	<2.94	<2.93
Toluene	<8.14	<16.4	<1.63	<1.63
1,1,1-Trichloroethane	4460 D	6770 D	<2.36	<2.36
1,1,2-Trichloroethane	<11.8	<23.7	<2.36	<2.36
Trichloroethene	3240 D	3320 D	<2.33	3.21 D
1,2,4-Trimethylbenzene	11.2 D	<21.4	<2.13	<2.12
Vinyl chloride	<5.52	<11.1	<1.11	<1.1
o-Xylene	<9.38	<18.9	1.9 D	<1.88
p/m-Xylene	<18.8	<37.8	13.3 D	<3.75

Notes:

All values reported in units of microgram per meter cubed ($\mu\text{g}/\text{m}^3$)

< - Compound not detected at concentrations greater than the listed number.

D - Concentration of analyte was quantified from diluted analysis.