

2016 Periodic Review Report

Reporting Period: 12/11/2015 to 03/31/2017

NYSDEC BCP Site No. C828189

Location:

Former Michelsen Furniture Co. Site
182 Avenue D and 374 Conkey Avenue
City of Rochester, New York

Prepared for:

M+M Housing Development Fund Corp. as Nominee for
Mills and Michelsen LLC
312 State Street
Rochester, New York 14614

LaBella Project No. 2161282

April 27, 2017

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1.0 INTRODUCTION

LaBella Associates, D.P.C. (LaBella) is pleased to submit this Periodic Review Report (PRR) for the Former Michelsen Furniture Co. Site located at 182 Avenue D and 374 Conkey Avenue in the City of Rochester under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC). This PRR covers the Reporting Period from December 11, 2015 to March 31, 2017.

The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index C828189-09-14, Site # C828189. A Site Location Map is included as Figure 1. The Site is located in the City of Rochester, County of Monroe, New York and is comprised of two parcels totaling +/- 0.62-acre (Section 091.770 Block 0002 and Lot 031 on the City of Rochester Tax Map).

The properties adjoining the Site and in the neighborhood surrounding the Site primarily include residential properties. The properties immediately south of the Site include residential properties and a mini-mart; the properties immediately north and west of the Site include residential properties; the properties immediately east of the Site include residential properties and a recreation center.

A Site Plan (included as Figure 2), illustrates the Site boundaries and the adjacent properties.

1.1 Environmental History

A Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the Site. The results of the RI are described in detail in the *Remedial Investigation Report, NYSDEC BCP Site #C828189*, prepared by LaBella and dated September 2015.

Additional detail regarding the history of the Site can be found in the *Site Management Plan, Former Michelsen Furniture Co. Site, NYSDEC Site Number: C828189*, prepared by LaBella and dated November 2015 (hereinafter referred to as the "SMP").

Generally, the RI determined that solvent related volatile organic compounds (VOCs) (specifically Trichloroethene (TCE) and its breakdown compounds) existed in soil, with limited quantities of SVOCs being present in subsurface soil. Based on these findings, it appeared the source of the VOC plume was in the area of the former loading dock. The limits of the VOC impacts in soil were defined by the RI. The extent of off-site groundwater impacts have not been defined.

The following is a summary of site conditions when the RI was performed in 2014.

Soil

- Subsurface soil sampling at the Site only identified one area of soil that contains SVOCs above the SCGs. This area is located beneath the parking lot at the Site.
- Subsurface VOC impacts in soil were not identified at concentrations above the NYSDEC Part 375-6.8(b) Restricted Residential SCOs. However, low concentrations of VOCs above the NYSDEC Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (SCOs) and Part 375-6.8(b) Protection of Groundwater SCOs in soil were detected beneath the Site building.

Areas of subsurface soil impacts detected during the RI are summarized in Tables 2 through 4 of the SMP and are detailed on Figure 5 of the SMP.

Site-Related Groundwater

Groundwater at the Site is impacted by CVOCs at concentrations above Part 703 groundwater standards. The groundwater flow at the Site is to the north, towards adjacent residential properties. The potential exists that CVOCs are migrating off-Site. While the results of on-Site sampling indicate groundwater contamination may be moving off-Site, off-Site sampling is necessary to confirm the nature and extent. Groundwater impacts detected during the RI are summarized in Table 4 of the SMP and are detailed on Figure 6 of the SMP.

Site-Related Soil Vapor Intrusion

Based on the concentrations of VOCs in soil and groundwater beneath the Site building a completed exposure pathway does appear to exist for VOCs. However, while, data is not available documenting current concentrations of VOCs in sub slab vapor or indoor air, the installation of the sub slab depressurization system and ventilation of the underground parking garage addresses any potential vapor intrusion concerns.

In addition, the following Interim Remedial Measures were implemented at the Site:

1. UST Removal – Two (2) 3,000 gallon heating oil USTs were removed, decommissioned and disposed as scrap steel. Approximately 550 gallons of residual heating oil was removed and disposed at Industrial Oil Tank Services in Oriskany, New York.
2. Soil Removal – A total of 1,917.06 tons of soil was characterized, removed from the Site and transported to Mill Seat Landfill in Riga, New York for disposal as non-hazardous waste.
3. Sub Slab Depressurization System (SSDS) – An SSDS was installed in the Site building during redevelopment.

The locations of IRMs implemented at the Site are detailed on Figure 7 of the SMP.

The Site was remediated in accordance with the NYSDEC-approved Remedial Action Work Plan dated September 2015. The following is a summary of the Remedial Actions performed at the Site:

1. Construction and maintenance of a soil cover system to prevent human exposure to remaining contaminated soil. This cover system includes a minimum of 24 inches of clean material or impervious surfaces (e.g., pavement, concrete) applied as part of the remedy. Geotextile fabric was placed as a demarcation layer between the cover material and underlying soil;
2. Injection of 13,200 pounds of sodium permanganate (“RemOx® L”) was pumped at an approximately 10% concentration into six injection wells and monitoring wells BW-02, BW-03, BW-04, GPMW-34, and GPMW-26. A total of 6,000 gallons of 10% solution was injected.
3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site; and
4. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for Institutional Controls. Remedial activities were completed at the site in May 2014.

A groundwater treatment system consisting of a network of six injection wells was installed in the area between the building and the concrete ramp to the basement to facilitate introduction of in-situ chemical oxidation (ISCO) compounds to the subsurface (see Figure 9 of the SMP). Each injection well was constructed of two inch Sch 40 PVC with 0.020 inch machine slotted screens. Each well was installed to a total of five (5) feet into bedrock to straddle the bedrock/overburden contact. A quartz sand pack was placed around the screen section of each well followed by a two foot bentonite seal. The remainder of the annulus was grouted to the surface. Each injection well was completed at the surface with a flush-mount protective casing. In addition to the six dedicated injection wells, ISCO injections can be performed in bedrock monitoring wells BW-02, BW-03 and BW-04 and overburden monitoring wells GPMW-26 and GPMW-34.

The remedial work did not remove all contamination at the Site. Remaining contamination at the Site includes the following:

Soil

Additional soil samples were not collected subsequent to implementation of the remedial action. As such, VOC and SVOC concentrations in areas not affected by remedial actions are anticipated to remain similar to those identified in previous investigations.

Based on the results of laboratory analysis of soil samples collected during the RI, CVOCs are present at the Site at concentrations exceeding SCGs for soil. TCE was detected in one (1) soil sample collected during pre-RI investigations at a concentration above Part 375-6.8(a) Unrestricted SCOs but below Part 375-6.8(b) Restricted Residential SCOs. Concentrations of VOCs detected in RI soil samples did not exceed Part 375-6.8(b) Restricted Residential SCOs. TCE was detected in three soil samples collected from RI and pre-RI sampling at concentrations exceeding Part 375-6.8(b) Protection of Groundwater

SCOs.

SVOCs were identified in one soil sample (i.e., IW-3 at a depth of 4' to 10' bgs) during the RI at concentrations exceeding Part 375-6.8(b) Restricted Industrial SCOs. Concentrations of all other SVOCs detected in soil samples were below Part 375-6.8(a) Unrestricted Use SCOs.

Groundwater

VOCs remain in Site groundwater at concentrations exceeding SCGs. Groundwater contamination was detected in bedrock monitoring wells located proximate the northern property line during the RI. The potential exists that contamination is migrating off-site with groundwater. Contaminant levels are anticipated to decrease over time due to the groundwater treatment remedy that was implemented at the site.

Table 8 in Appendix 4 and Figure 10 of the SMP summarize the results of all samples of groundwater that exceed the SCGs after completion of the remedial action.

Soil Vapor

Soil vapor samples have not been collected at the Site; however an SSDS has been installed at the Site to mitigate the potential for vapor intrusion into the Site building.

Since remaining contaminated soil and groundwater exists beneath portions of the Site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment. The EC/IC Plan, a component of the SMP, describes the procedures for the implementation and management of all EC/ICs at the Site.

2.0 PURPOSE AND SCOPE OF WORK

The purpose of this report is to present the annual monitoring work completed at the Site during 2016 and early 2017. This work was completed in general accordance with the provisions of the SMP. As required in the SMP, this report includes the following information:

- Identification, assessment and certification of all Engineering Controls/Institutional Controls (ECs/ICs) required by the remedy for the Site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the Site during the reporting period in electronic format (included in report);
- Data summary tables and graphical representations of contaminants of concern by media, which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;
- A Site evaluation, which includes the following:
 - The compliance of the remedy with the requirements of the Site-specific RAWP;
 - Any new conclusions or observations regarding Site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
 - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
 - The overall performance and effectiveness of the remedy.

3.0 ANNUAL MONITORING

The SMP identified the on-going monitoring of the performance of the remedy, via annual sampling of ten (10) existing groundwater monitoring wells, as summarized in the following table.

On-Site Wells Included in Annual Groundwater Monitoring Program

<u>Well ID</u>	<u>Frequency</u>	<u>Testing Parameter</u>
GPMW-34	Quarterly	TCL List VOCs via EPA Method 8260
GPMW-26	Quarterly	TCL List VOCs via EPA Method 8260
IW-2	Quarterly	TCL List VOCs via EPA Method 8260
IW-3	Quarterly	TCL List VOCs via EPA Method 8260
IW-4	Quarterly	TCL List VOCs via EPA Method 8260
IW-5	Quarterly	TCL List VOCs via EPA Method 8260
BMW-02	Quarterly	TCL List VOCs via EPA Method 8260
BMW-03	Quarterly	TCL List VOCs via EPA Method 8260
BMW-04	Quarterly	TCL List VOCs via EPA Method 8260

In addition to groundwater monitoring, Site-wide inspections will be performed on a regular schedule at a minimum of once a year. During these inspections, an inspection form will be completed, which will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that site records are up to date.

Annual monitoring of the performance of the remedy and overall reduction in contamination on-site will be conducted for the first five (5) years. The frequency thereafter will be determined by NYSDEC. Trends in contaminant levels in air, soil, and/or groundwater in the affected areas, will be evaluated to determine if the remedy continues to be effective in achieving remedial goals.

3.1 Groundwater Monitoring

Groundwater monitoring was conducted in August and October 2016 and January and April 2017.

Passive diffusion bag (PDB) samplers were used to collect groundwater samples according to the procedures outlined in the SMP.

Environmental Science Corporation of Mt. Juliet, Tennessee (ESC) analyzed the groundwater samples collected. ESC is a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory. The samples were analyzed for United States Environmental Protection Agency (USEPA) United States Environmental Protection Agency (USEPA) Target Compound List (TCL) VOCs using USEPA Method 8260. The laboratory analytical reports from ESC are included in Appendix B.

An Analytical Services Protocol (ASP) Category B deliverable for the laboratory reports were obtained (with one exception, see below), and a Data Usability Summary Reports (DUSR) was created for the laboratory report (see Appendix C).

3.2 Deviations from SMP

No groundwater sample was collected in the 1st or 2nd quarter of 2016. The 2nd quarter 2017 sampling event was conducted on April 4, 2017. In addition, during groundwater sampling performed in August 2016, QA/QC samples were not collected. As such, data from this sampling event could not be validated. The data is presented in the summary table for informational purposes only.

4.0 GROUNDWATER FLOW CONTOURS

Historic monitoring information previously presented to the NYSDEC describes a direction of groundwater flow that is to the north. For informational purposes, a groundwater contour map from June 2015 is included as Figure 4.

5.0 SUMMARY OF GROUNDWATER MONITORING

The results of the groundwater monitoring are summarized in the attached Table 1 and are compared to the NYSDEC Part 703 groundwater standards. As summarized in Table 1 and the following table, the following VOCs were reported above the NYSDEC Part 703 groundwater standards in groundwater during the last monitoring event of the period:

Well ID	VOC(s) above Part 703 Groundwater Standards
GPMW-34	Trichloroethene
GPMW-26	Trichloroethene
IW-2	cis-1,2-Dichloroethene; 1,1,1-Trichloroethane; Trichloroethene
IW-3	cis-1,2-Dichloroethene; Trichloroethene
IW-4	Trichloroethene
IW-5	
BMW-02	cis-1,2-Dichloroethene; Trichloroethene
BMW-03	cis-1,2-Dichloroethene; Trichloroethene
BMW-04	cis-1,2-Dichloroethene; Trichloroethene; Vinyl Chloride

6.0 SITE EVALUATION

The annual monitoring work conducted for the December 11, 2015 to March 31, 2017 Reporting Period was completed in general accordance with the SMP, with any exceptions noted in Section 3.2.

The annual Site-wide inspection was performed on October 26, 2016 and conditions at the Site overall appeared very similar to previously observed (December 2015) conditions. A copy of the Site Inspection Form is included as Appendix D.

The analytical results from the monitoring period indicate that overall VOC concentrations show a general downward trend. The exceptions to this general trend include GPMW-26 and GPMW-34, which show potential signs of rebound.

Revisions to SMP

No revisions to the SMP are recommended.

7.0 INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION

The NYSDEC Institutional and Engineering Controls Certification Form is included in Appendix E.

I:\MILLS & MICHELSEN LLC\2161282 - 182 AVE D GROUNDWATER SAMPLING\REPORTS\PRRS\2017_04_27_ PRR FORMER MICHELSEN.DOCX

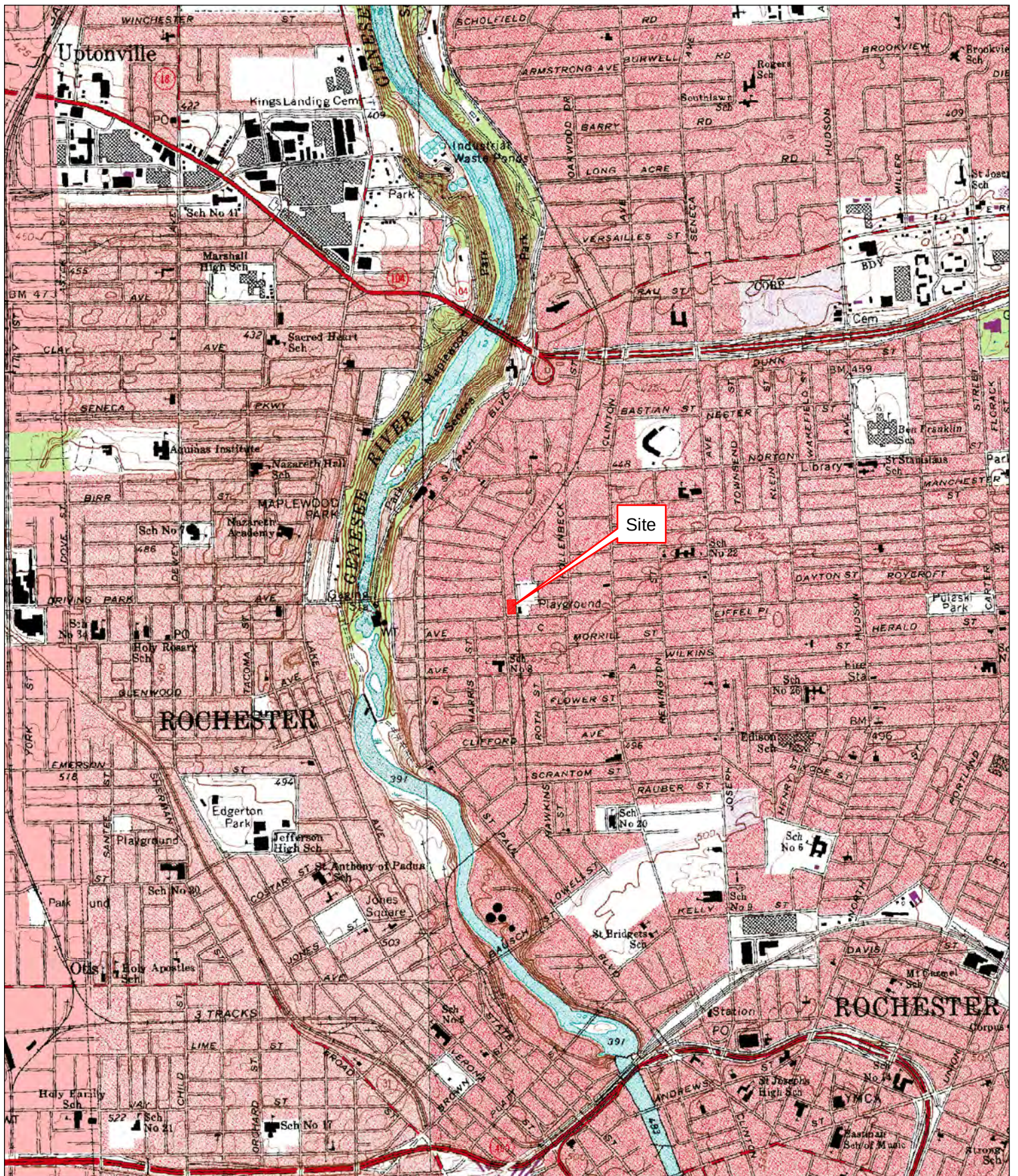
LaBELLA

LaBella Associates, D.P.C.

300 State Street

Rochester, New York 14614

Figures



PROJECT/DRAWING NUMBER [214539] [FIGURE 1]	DRAWING TITLE SITE LOCATION MAP ISSUED FOR: DRAFT DESIGNED BY: DKE DRAWN BY: DKE DATE: 09/11/2015	PROJECT/CLIENT Site Management Plan Former Michelsen Furniture Co. Site 182 Avenue D & 374 Conkey Ave. Rochester, New York Client: M+M Housing Development Fund Corp. as Nominee for Mills and Michelsen LLC	ABELLA Associates, D.P.C. 300 STATE STREET ROCHESTER, NY 14614 P: (585) 454-6110 F: (585) 454-3066 www.labellapc.com COPYRIGHT 2003 0 1,050 2,100 4,200 Feet 1 inch = 2,000 feet
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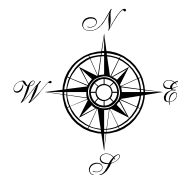
Path: J:\Urban League of Rochester Economic Development\214539 - Michelson BCP Site RI & Remediation\Drawings\SMPLFig. 2 - Site layout map.mxd



Periodic Review Report
Former Michelson Furniture
Co. Site
182 Avenue D &
374 Conkey Ave.
Rochester, New York

M+M Housing Development
Fund Corp. as Nominee for
Mills and Michelson LLC

Title:
Adjacent Property Information



100 80
1 inch = 100 feet

[2161282]
[Figure 2]

Path: I:\Wills & Michelsen LLC\2161282 - 182 Ave D Groundwater Sampling\Drawings\Fig 3 - GW monitoring.mxd



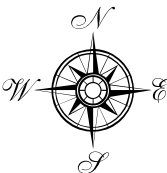
Periodic Review Report

Former Michelsen
Furniture Co. Site

182 Avenue D
&
374 Conkey Avenue
Rochester, New York

Urban League of Rochester
Economic Development
Corporation

Title:
Groundwater Monitoring
Locations



10 0 10
1 inch = 25 feet

[2161282]

[Figure 3]

Path: J:\Urban League of Rochester Economic Development\214539 - Michelson BCP Site RI & Remediation\Drawings\RI\Fig. 4 - GW Contours 6-1-2015.mxd



BCP Remedial Investigation

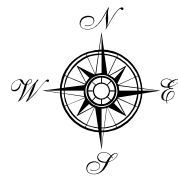
Former Michelson
Furniture Co. Site

182 Avenue D
&
374 Conkey Avenue
Rochester, New York

Urban League of Rochester
Economic Development
Corporation

Title:
Groundwater Elevation
Contouring

Bedrock & Interface
Monitoring Wells
(6/1/2015)



10 0 10
1 inch = 25 feet

[214539]

[Figure 4]

LaBELLA

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300 State Street

Rochester, New York 14614

Tables

Table 1
Periodic Site Monitoring - Post-injection
Former Michelsen Furniture Co. Site
182 Avenue D & 374 Conkey Avenue
Rochester, New York

Summary of Detected Volatile Organic Compounds in Groundwater Samples
Results in Micrograms per Liter (µg/L) or Parts Per Billion (ppb)

Sample ID	Sample Location																								NYSDEC Part 703 Groundwater Standards
	GPMW-26					GPMW-34					IW-2				IW-3					IW-4					
	10/30/2015	8/11/2016	10/24/2016	1/30/2017	4/4/2017	10/30/2015	8/11/2016	10/26/2016	1/30/2017	4/4/2017	8/11/2016	10/26/2016	1/30/2017	4/4/2017	10/30/2015	8/11/2016	10/24/2016	1/30/2017	4/4/2017	10/30/2015	8/11/2016	10/24/2016	1/30/2017	4/4/2017	
Sample Collection Date	10/30/2015	8/11/2016	10/24/2016	1/30/2017	4/4/2017	10/30/2015	8/11/2016	10/26/2016	1/30/2017	4/4/2017	8/11/2016	10/26/2016	1/30/2017	4/4/2017	10/30/2015	8/11/2016	10/24/2016	1/30/2017	4/4/2017	10/30/2015	8/11/2016	10/24/2016	1/30/2017	4/4/2017	
ACETONE	ND	ND	ND J3	ND	ND	79.5	ND	ND J3	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	
BENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BROMOCHLOROMETHANE	ND	ND	ND J4	ND	ND	ND	ND	ND J4	ND	ND	ND	ND J4	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND J4	ND	ND	
BROMODICHLOROMETHANE	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BROMOFORM	ND	ND	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J3	ND	ND	
BROMOMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CARBON DISULFIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CARBON TETRACHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CHLOROFORM	ND	ND	ND	ND	ND	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CYCLOHEXANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	
1,2-DIBROMOETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-DICHLOROENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-DICHLOROENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-DICHLOROENZENE	ND	ND	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND	ND	ND	ND	ND J4	ND	ND	ND	
DICHLORODIFLUOROMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0	ND	ND	1.46	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-DICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.4	4.9	3.11	3.89	1.39	1.5	1.17	ND	1.04	ND	ND	ND	ND	ND	
CIS-1,2-DICHLOROETHENE	ND	ND	ND	ND	1.76	ND	ND	ND	ND	ND	147.0	84.7	44.6	57.2	114	118.0	87.7	43.3	86.2	ND	4.31	2.27	ND	ND	
TRANS-1,2-DICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.86	ND	ND	ND	ND	ND	ND	
1,2-DICHLOROPROPANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CIS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TRANS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-HEXANONE	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	
ISOPROPYLBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-BUTANONE (MEK)	215	ND	ND J3	ND	ND	218	ND	ND J3	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	
METHYL ACETATE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
METHYL CYCLOHEXANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.12	1.8	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	
METHYLENE CHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-METHYL-2-PENTANONE (MIBK)	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	
METHYL TERT-BUTYL ETHER	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
STYRENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TETRACHLOROETHENE	ND	ND	ND	ND	2.68	ND	ND	1.47	1	3.22	2.5	2.94	1.84	1.54	1.87	1.9	2.42	1.57	ND	ND	5.19	6.95	6.66	4.22	
TOLUENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-TRICHLOROENZENE	ND	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-TRICHLOROENZENE	ND	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J4	ND	ND	ND	
1,1,1-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	99.5	44.9	30.1	32.6	12.7	13.2	10.9	6.47	4.92	ND	ND	ND	ND	ND	
1,1,2-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				

Notes:

- 1. VOC analysis for TCL List VOCs by United States Environmental Protection Agency (USEPA) Method SW846 8260B.
- 2. **Bold and highlighted type indicates that the constituent was detected above NYSDEC Part 703 Groundwater Standards.**
- 3. "ND" - Indicates that the constituent was not detected.
- 4. "NA" - Indicates information is not applicable or not available.
- 5. "J3" - The associated batch QC was outside the established quality control range for precision.
- 6. "J4" - Indicates that the associated batch QC was outside the established quality control range for accuracy.
- 7. "J6" - Indicates that the sample matrix interfered with the ability to make any accurate determination; spike value is low.

If no standard is established for a selected compound, TOGS Table 1.1.1 Guidance values are substituted.

Table 1
Periodic Site Monitoring - Post-injection
Former Michelsen Furniture Co. Site
182 Avenue D & 374 Conkey Avenue
Rochester, New York

Summary of Detected Volatile Organic Compounds in Groundwater Samples
Results in Micrograms per Liter (µg/L) or Parts Per Billion (ppb)

Sample ID	Sample Location																				NYSDEC Part 703 Groundwater Standards
	IW-5				BW-02				BW-03					BW-04							
Sample Collection Date	8/11/2016	10/24/2016	1/30/2017	4/4/2017	10/30/2015	8/11/2016	10/24/2016	1/30/2017	4/4/2017	10/30/2015	8/11/2016	10/26/2016	1/30/2017	4/4/2017	10/30/2015	8/11/2016	10/26/2016	1/30/2017	4/4/2017		
ACETONE	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J3	ND	ND	50.00	
BENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	1.64	1.41	ND	ND	1.00	
BROMOCHLOROMETHANE	ND	ND J4	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND J4	ND	ND	50.00	
BROMODICHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.00	
BROMOFORM	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND	ND	ND	ND	50.00	
BROMOMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J3	ND	5.00	
CARBON DISULFIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.00	
CARBON TETRACHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
CHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
CHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
CHLOROFORM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.00	
CHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
CYCLOHEXANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55	4.23	2.49	2.38	1.57	3.00	
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	0.04	
1,2-DIBROMOETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
1,2-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	
1,3-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	
1,4-DICHLOROBENZENE	ND J4	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND	ND	ND	ND	3.00	
DICHLORODIFLUOROMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
1,2-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.60	
1,1-DICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.72	5.48	4.14	2.61	1.8	5.00	
CIS-1,2-DICHLOROETHENE	25.8	6.67	ND	ND	27.2	36.8	25.2	13.3	10.9	2.07	19.4	25.4	50.3	6.84	664	1810	974	1,050	654	5.00	
TRANS-1,2-DICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.15	10.2	8.24	5.21	3.19	5.00	
1,2-DICHLOROPROPANE	ND	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	
CIS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	
TRANS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
ETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND	ND	ND	5.00	
2-HEXANONE	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	50.00	
ISOPROPYLBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
2-BUTANONE (MEK)	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J3	ND	ND	50.00	
METHYL ACETATE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J6	ND	1.00	
METHYL CYCLOHEXANE	6.32	1.53	ND	ND	ND	1.45	ND	ND	ND	1.13	ND	1.03	ND	1.28	2.1	4.68	ND	2.99	2.21	NA	
METHYLENE CHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
4-METHYL-2-PENTANONE (MIBK)	ND	ND J3	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J3	ND	ND	NA	
METHYL TERT-BUTYL ETHER	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.00	
STYRENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND	ND	ND	5.00	
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J3	ND	ND	ND	ND	ND	ND	ND	5.00	
TETRACHLOROETHENE	4.77	3.49	ND	ND	ND	1.45	1.44	1.24	1.01	ND	ND	ND	2.19	ND	ND	ND	1.69	1.73	1.58	5.00	
TOLUENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	ND	ND	ND	5.00	
1,2,3-TRICHLOROBENZENE	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
1,2,4-TRICHLOROBENZENE	ND	ND	ND	ND	ND J4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
1,1,1-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.46	ND	ND	5.00	
1,1,2-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
TRICHLOROETHENE	431	48.6	ND	ND	95 J6	188	167	1.0	72.5	2.52	6.51	34.5	106	12.1	256	240	301	201	139	5.00	
TRICHLOROFUOROMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
1,1,2-TRICHLOROTRIFLUOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	
VINYL CHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37.1	151	61.2	69.3	53.5	2.00	
XYLENES, TOTAL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	

Notes:
1. VOC analysis for TCL List VOCs by United States Environmental Protection Agency (USEPA) Method SW846 8260B.
2. Bold and highlighted type indicates that the constituent was detected above NYSDEC Part 703 Groundwater Standards.
3. "ND" - Indicates that the constituent was not detected.
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5. "J3" - The associated batch QC was outside the established quality control range for precision.
6. "J4" - Indicates that the associated batch QC was outside the established quality control range for accuracy.
7. "I6" - Indicates that The sample matrix interfered with the ability to make any accurate determination; spike value is low.
8. If no standard is established for a selected compound, TOGS Table 1.1.1 Guidance values are substituted.



LaBella Associates, D.P.C.

300 State Street

Rochester, New York 14614

Appendix A

Laboratory Analytical Reports



LaBella Associates, D.P.C.

300 State Street

Rochester, New York 14614

Appendix B

Data Usability Summary Reports

LaBELLA

LaBella Associates, D.P.C.

300 State Street

Rochester, New York 14614

Appendix C

Site Inspection Form

LaBELLA

Associates, D.P.C.

300 State Street

Rochester, New York 14614

Phone: 585-454-6110

Fax: 585-454-3066

Site Wide Inspection Form

Project Name: Former Michelsen Furniture Co. Site

Location: 182 Avenue D & 374 Conkey Avenue

LaBella Project No.:

Inspected By:

Dave Engert

Date of Inspection:

10/26/16

Weather Conditions:

Cloudy - 40° F

Comments

Compliance with SMP/Environmental Easement

Yes

Condition of SSDS

Working, alarms tested.

Condition of groundwater monitoring wells to be used for long-term monitoring as indicated in SMP.

Good, all ~~road~~ road boxes intact.

General site conditions at time of inspection

No deviations from prior

Site management activities currently being conducted (if any)

N/A

Site records up to date?

Yes

Additional Notes/Comments:



Associates, D.P.C.

300 State Street

Rochester, New York 14614

Phone: (585) 454-6110

Fax: (585) 454-3066

SUB-SLAB DEPRESSURIZATION SYSTEM INSPECTION FORM

Project Name: Former Michelsen Furniture Co. Site - Site No. C828189

Location: 182 Avenue D & 374 Conkey Ave, Rochester, New York

LaBella Project No.: 2161282

Inspected By: Dave Engel

Date of Inspection: 10/26/16

Weather Conditions: Cloudy 40°F

INSPECTION FINDINGS:

Sub-Slab Depressurization System - Fan #1:

Operational -

Yes

No

Vacuum Gauge Reading (inches of water) -

2

Open Ball Valve on Trap & Drain Water -

NA

Alarm Check -

Alarm Sounded?

Alarm Failed?

Sub-Slab Depressurization System - Fan #2:

Operational -

Yes

No

Vacuum Gauge Reading (inches of water) -

3

Open Ball Valve on Trap & Drain Water -

NA

Alarm Check -

Alarm Sounded?

Alarm Failed?

Sub-Slab Depressurization System - Fan #3:

Operational -

Yes

No

Vacuum Gauge Reading (inches of water) -

2.5

Open Ball Valve on Trap & Drain Water -

NA

Alarm Check -

Alarm Sounded?

Alarm Failed?

Sub-Slab Depressurization System - Fan #4:

Operational -

Yes

No

Vacuum Gauge Reading (inches of water) -

1.5

Open Ball Valve on Trap & Drain Water -

NA

Alarm Check -

Alarm Sounded?

Alarm Failed?



LaBella Associates, D.P.C.

300 State Street

Rochester, New York 14614

Appendix D

Institutional Controls/Engineering Controls Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1
Site No.	C828189	
Site Name Former Michelsen Furniture Co. Site		
Site Address: 182 Avenue D & 374 Conkey Avenue Zip Code: 14621		
City/Town: Rochester		
County: Monroe		
Site Acreage: 0.6		
Reporting Period: December 11, 2015 to March 31, 2017		
		YES NO
1. Is the information above correct?		☒ ☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		☐ ☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		☐ ☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		☐ ☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		☐ ☒

Box 2	
YES NO	
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒ ☐
7. Are all ICs/ECs in place and functioning as designed?	☒ ☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	
A Corrective Measures Work Plan must be submitted along with this form to address these issues.	
Signature of Owner, Remedial Party or Designated Representative _____ Signature of Owner, Remedial Party or Designated Representative	Date <u>4/27/2017</u> Date

		Box 2A
		YES NO
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐ ☒
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9.	Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☐ ☒
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C828189		Box 3
Description of Institutional Controls		
<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
091.77-2-31.001	M M Housing Dev. & Mills and Michelsen	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
A Site Management Plan which includes a soil excavation plan and IC/EC plan. An environmental easement that requires compliance with SMP; provides for periodic certification; limits site use to restricted residential, commercial or industrial uses; and restricts the use of groundwater as a potable source.		

		Box 4
Description of Engineering Controls		
<u>Parcel</u>	<u>Engineering Control</u>	
091.77-2-31.001	Groundwater Treatment System Vapor Mitigation Cover System	
Cover System: The sitewide cover system consists either of the on-site buildings, pavement, sidewalks or two feet of clean soil. Sub-slab Depressurization system: Continued operation of the SSDS in the main occupied building is required. Groundwater Remediation System: Continued monitoring and operation of the groundwater treatment system.		

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

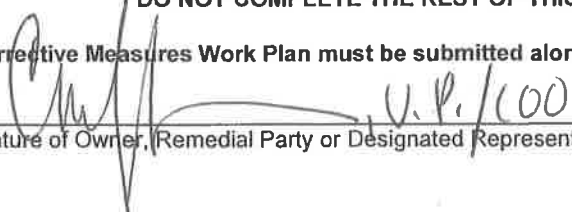
(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.


Signature of Owner, Remedial Party or Designated Representative

4/27/2017
Date

IC CERTIFICATIONS
SITE NO. C828189

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Carolyn Vitale at 312 State St., Roch NY
print name print business address 14608

am certifying as owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

[Signature] V. Pres / COO
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

4/27/2017
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I DANIEL P. NOLL at Libell Assoc. 300 State St Rochester
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)

D. P. NOLL

Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



Stamp
(Required for PE)

4/27/17
Date