Stantec Consulting Services Inc.
61 Commercial Street Suite 100, Rochester NY 14614-1009

September 10, 2018
File: 1905000965

Mr. Todd Caffoe, Environmental Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation
6274 East Avon-Lima Road
Avon, NY 14414

Reference: **Monthly Progress Report #2**
Brownfield Cleanup Program Site # C828206
67 & 89 Canal Street
Rochester, Monroe County, New York

Dear Todd:

On behalf of East House Canal Street LLC, Stantec Consulting Services Inc. (Stantec) has prepared this Monthly Progress Report #2 for the Brownfield Cleanup Program at the Canal Street Site located at 67 & 89 Canal Street, Monroe County, New York (Site). This report covers the period from August 3, 2018 through September 6, 2018.

1. Actions Conducted During the Previous Reporting Period

Actions conducted include the following:

- Building material sampling for asbestos and PCBs was conducted between August 9th and August 27th.
- The Geophysical Survey was completed on August 3rd and August 11th by John Luttinger of John Wood Group PLC (Wood). Four magnetic anomalies, Anomalies A through D on the attached Figure 1, were identified which had the potential to represent underground storage tanks (USTs) or miscellaneous buried metals. Additionally, several linear features were identified on the western portion of the Site and in courtyard areas (see Figure 1).
- Utility clearance for the passive soil gas (PSG) and drilling programs was completed on August 6th, 7th and 30th.
- The sewer video survey and dye testing were completed on August 7th by Roto Rooter under Stantec observation. The sump and floor drains without traps were surveyed with video surveillance equipment in order to investigate their discharge locations and integrity of the piping. Video surveillance equipment could not bypass floor drain traps thus these locations were dye tested to investigate discharge locations. The floor drains investigated within the main former manufacturing building and garage were found to connect to the sanitary sewer. Of the drains that could by surveyed via video, the pipes were found to be

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67 & 89 Canal Street
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intact except for a pipe connecting a floor drain to the sump in the northern loading dock area of the main manufacturing building. This pipe was observed to be broken although water could still pass through to the sump (see Figure 2).

- Emflux Sample modules for the PSG survey were installed on August 7th and 8th and retrieved on August 15th. Results and maps provided by Beacon Environmental Services, Inc. are included as Attachment A. The following items of note were found in the survey:
    - Petroleum-related compounds were identified below the northern portion of the main manufacturing building with the highest concentrations detected near where the broken pipe in the loading dock area was identified.
    - Lesser concentrations of petroleum compounds were identified along the southwest corner of the Site.
    - Chlorinated compounds were identified along the western portion of the Site. The distribution of these compounds indicates the impacts in this area are likely from one or more off-Site sources.

- A test pit program was conducted on August 28th in order to investigate the anomalies identified in the geophysical survey.
    - TP-1 was installed to investigate Anomaly B. A reinforced concrete slab encountered approximately 1 ft. below ground surface (bgs) is attributed to this anomaly. Additionally, perforated PVC pipe was encountered in the test pit which is suspected to be remnants of the former on-Site soil vapor extraction (SVE) system.
    - TP-2 was installed to investigate Anomaly A. A reinforced concrete slab found immediately below the asphalt is attributed to this anomaly.
    - TP-3 was installed to investigate Anomaly D. Fill and buried metal debris were found in this location.
    - TP-4 was installed to investigate Anomaly C. Fill and buried metal debris were found in this location.
    - TP-5 was installed just south of Anomaly C to investigate one of the linear features. A 6 in. diameter cast iron pipe was found approximately 4 ft. bgs.
    - TP-6 was installed just east of the garage/shop building to investigate another of the linear features. A 2 in. diameter cast iron pipe was identified 2 ft. bgs.

- Soil borings and monitoring wells were installed between August 28th and September 7th. Locations of the borings and wells installed as of September 6th are depicted on Figure 2. Significant findings include the following:
    - B/MW-102 was installed within the apparent former UST excavation area. Gravel backfill with no obvious odors, sheens or elevated PID readings were observed for

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Brownfield Cleanup Program Site # C828206
67 & 89 Canal Street
Rochester, Monroe County, New York

the majority of the soil boring except for a 1-inch interval immediately on top of bedrock (8 ft 1 in BGS) which had a petroleum odor and PID readings of 10.5 parts per million (ppm).

- A slight petroleum odor was noted in B-105 on top of bedrock at 4 ft. 11 in. BGS.
- B/MW-106 was installed in the loading dock area adjacent to where the broken drain pipe was observed; this boring had petroleum odors and elevated PID readings (maximum of 240 ppm) in the overburden soils. Bedrock was encountered at 2 ft. 1 in. bgs in this location.

- Due to results from the geophysical PSG and video surveys as well as field conditions, and both budgetary and time constraints, several changes to the field program from the draft RIWP were proposed to the Department during a telephone conversation on August 21st and in e-mail correspondence and a telephone conversation on August 27th to which the Department responded via email on September 6th. The revised approach includes the following:
  - Given future development plans, which will involve either the removal of the top two feet of soil or placement of two feet of clean in proposed landscaped areas, and placement of impervious surfaces in other areas which will address the entire site, the surface sampling program was proposed to be eliminated from the field program.
  - The number of soil borings was reduced from 12 locations to 5 locations and number of new monitoring wells was reduced from 12 locations to 7 locations.
  - Given the limited quantity of water in the overburden, interface bedrock wells were installed approximately 5 ft into bedrock; except for the two most southern wells which are proposed to remain as overburden installations given the limited access of drilling equipment to this part of the building necessitating the use of Geoprobe equipment which cannot penetrate bedrock.
  - Revisions to the soil analytical program include collection of a total of 17 soil samples plus one sample of apparent asphaltic subbase material below a wooden floor.
    - Four of the soil samples were submitted for a full suite of parameters which includes VOCs, SVOCs PCBs, Pesticides, Metals and Cyanide. A fifth sample, which was collected from B-105 immediately beneath an area of the building with a wooden floor, contained what appeared to be a layer of asphalt. As a result, this sample was submitted for analysis of the full-suite of analyses minus SVOCs, as that analysis would be expected to yield very high SVOC concentrations which could potentially adversely affect the laboratory instrumentation.

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- The remainder of the soil samples were requested to be submitted for analysis of VOCs, SVOCs and metals (including a deeper sample from B-105). These analyses have been requested except as noted below:
  - B-102, which was installed within the former UST excavation, was only submitted for VOC analysis as the excavation was comprised primarily of crushed stone backfill, with only 1 inch of material, suitable for sampling and which exhibited nuisance characteristics (odors and PID readings) present at the top of bedrock. There was insufficient sample volume to allow analysis of SVOCs and metals.
  - The sample from test pit TP-5, which was installed to investigate one of the linear geophysical anomalies, was submitted for VOCs only. This location is in close proximity to TP-4 which was analyzed for a full suite of parameters and was observed to have fill material of a similar nature.
- Contingent on the soil analytical results, the first round of groundwater sampling and analysis will be limited to VOCs only, with an expanded analytical program (jncluding some full suite analyses and emerging contaminants) to be performed in a future sampling event.

2. Data Received or Generated in the Previous Reporting Period

Data received or generated include the following:

- A figure received from Wood depicting the geophysical survey results is included as Figure 1.
- The PSG survey results received from Beacon Environmental Services, Inc. are included as Attachment A.
- Partial building materials sampling results were received. No PCBs have been identified to date. Upon receipt of the outstanding results, these data will be tabulated for use by the contractor to plan the necessary abatement activities.

3. Deliverables Completed and Submitted during the Previous Reporting Period

Deliverables completed or submitted include the following:

- Monthly Progress Report #1 was submitted on August 10, 2018.
- The geophysical survey, PSG mapping and revised proposed soil boring/monitoring well locations were submitted to NYSDEC on August 27, 2018 for review and approval.

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67 & 89 Canal Street
Rochester, Monroe County, New York

4. Actions Scheduled for the Next Reporting Period

Actions scheduled include the following:

- Complete soil borings and well installation;
- Prepare an addendum to the RIWP to address the revised scope;
- Receive the balance of the building material sampling results and tabulate the results;
- Receive and tabulate soil sampling analytical results; and
- Complete groundwater monitoring well development and the first round of groundwater sampling.

The remaining field work will be scheduled and NYSDEC notified of the proposed schedule.

5. Completion, Delays, and Future Schedule

The activities proposed in the draft Remedial Investigation Work Plan are currently proceeding on schedule.

Closing

Should you have any questions or require further information, please contact us.

Sincerely,

STANTEC CONSULTING SERVICES INC.

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Bob.Mahoney@stantec.com

ec: M. Doroski (NYSDOH)
G. Soehner (East House)
L. Shaw (Knauf Shaw)

List of Attachments:

Figure 1 – Geophysical Survey

Figure 2 – Investigation Location Map

Attachment A - PSG Maps and Results

Stantec

Legend

- Site Boundary
- Site Parcels
- City of Rochester ROW*
- Onsite and Adjacent Building Outlines
- Approximate Location of Ramp with Retaining Sidewalls
- Approximate Location of Overhead Door at Ramp Base
- Nearby Parcel Boundaries

0 30 60 Feet

1:360 (At original document size of 11x17)

Notes
1. Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet.
2. Key Map basemap: ArcGIS World Street Map.
3. Locations are approximate.
4. Proposed sample locations are approximate and are subject to change based on field conditions encountered during the investigation activities.
5. *The City of Rochester ROW is anticipated to become part of the Canal Street Site upon abandonment by the City of Rochester and submission and acceptance of a NYSDEC BCP Amendment application.

Project Location
67 & 89 Canal Street
C. of Rochester, Monroe Co., NY

190500965
Prepared by LB on 2018-01-02
Technical Review by KN on 2018-02-12
Independent Review by MPS on 2018-01-30

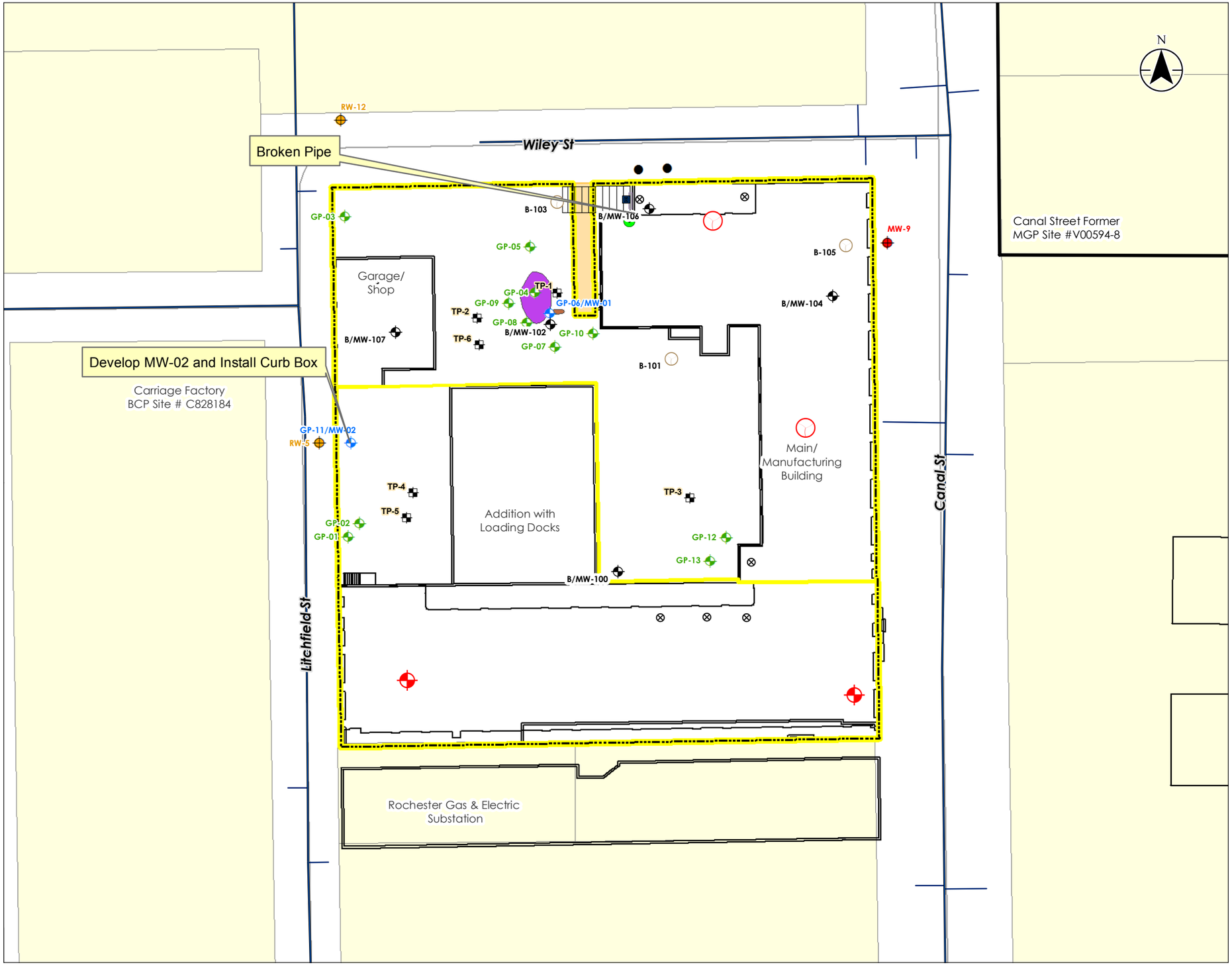
Client/Project
Canal Street Manufacturing Site
Progress Report No. 2

Figure No.
1

Title
Geophysical Survey

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

I:\190500965\05 - report data\dwgs_design GIS figures\8 Progress Rpts\PR2 August2018\Figure 1 - Geophysical Survey.mxd Revised: 2018-09-07 By: kjmilson



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Legend

- Exploratory Test Pits 8-28-2018
- Proposed Soil Boring
- Proposed Soil Boring/Overburden Well
- Soil Boring
- Soil Boring/Monitoring Well
- Prior On-Site Investigation Location (LaBella Phase II ESA, 2014) - Soil Boring
- Prior On-Site Investigation Location (LaBella Phase II ESA, 2014) - Soil Boring/Monitoring Well
- Previously Installed Off-Site Overburden Well (RGE MGP Site)
- Previously Installed Off-Site Bedrock Well (Carriage Factory BCP Site)
- Previous Excavation Extent
- Former Pump Island
- Site Boundary
- Site Parcels
- City of Rochester ROW*
- Approximate Location of Overhead Door at Ramp Base
- Exterior Drain
- Floor Drains
- Sump

0 50 100 Feet

1:600 (At original document size of 11x17)

Notes
1. Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet.
2. Key Map basemap: ArcGIS World Street Map.
3. Locations are approximate and have not yet been surveys.
4. Proposed sample locations are approximate and are subject to change based on field conditions encountered during the investigation activities.
5. *The City of Rochester ROW is anticipated to become part of the Canal Street Site upon abandonment by the City of Rochester and submission and acceptance of a NYSDEC BCP Amendment application.

Project Location
67 & 89 Canal Street
C. of Rochester, Monroe Co., NY

190500965
Prepared by KN on 2018-09-06
Technical Review by AL on 2018-09-10
Independent Review by MPS on 2018-09-10

Client/Project

Canal Street Manufacturing Site
Progress Report No. 2

Figure No.
2

Title
Investigation Locations

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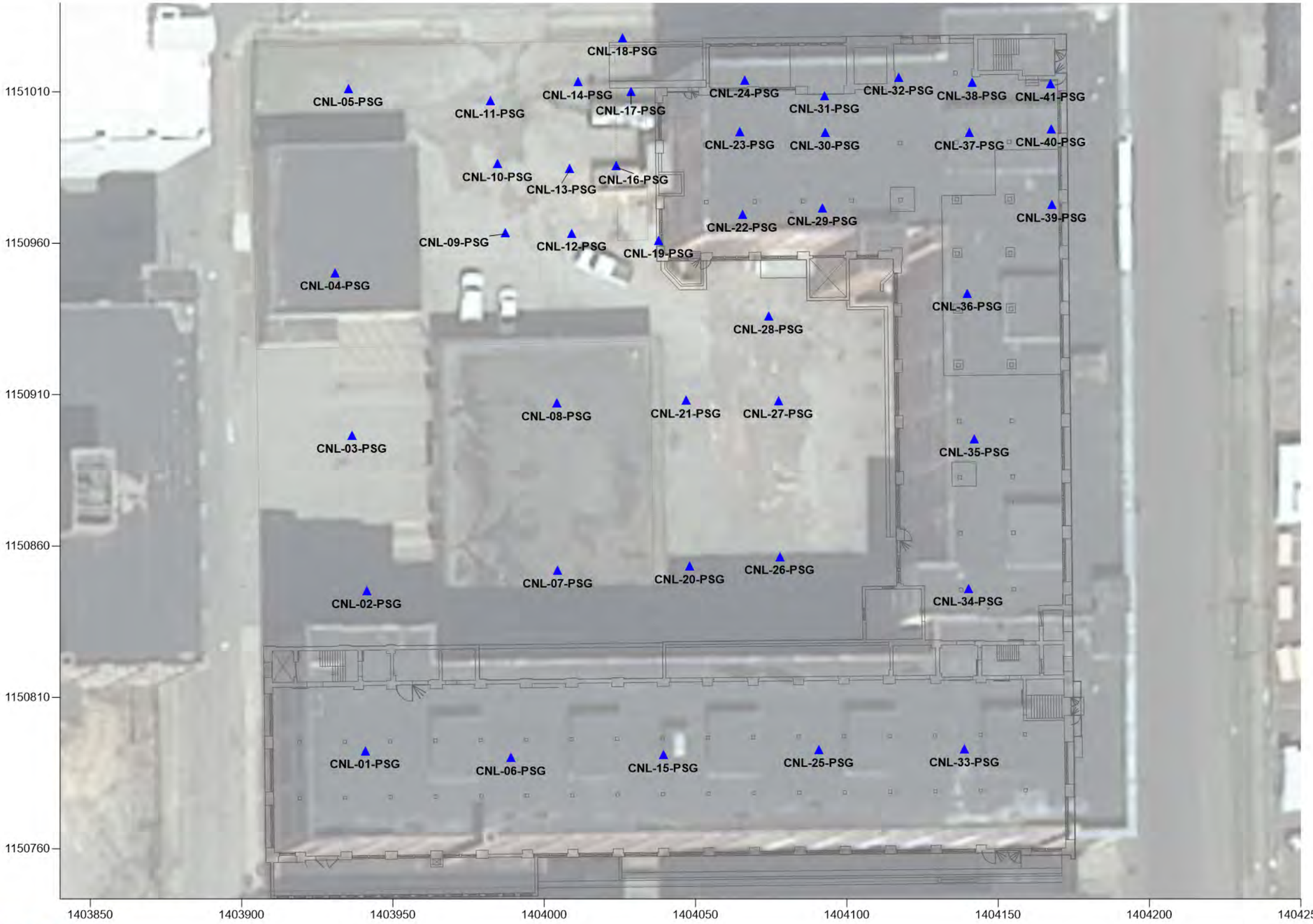
I:\190500965\05 report_dwfs\dwgs_design\GIS_figures\8 Progress Rpts\PR2 August 2018\Figure 2 - Investigation locations.mxd Revised: 2018-09-10 By: dates

ATTACHMENT A



BEACON ENVIRONMENTAL SERVICES, INC.
2203A Commerce Road, Suite 1, Forest Hill, MD 21050 USA
www.Beacon-USA.com 1-410-838-8780
Beacon Project No. 4085, August 2018

LEGEND

▲ CNL-15-PSG — PASSIVE SOIL-GAS SAMPLE LOCATION

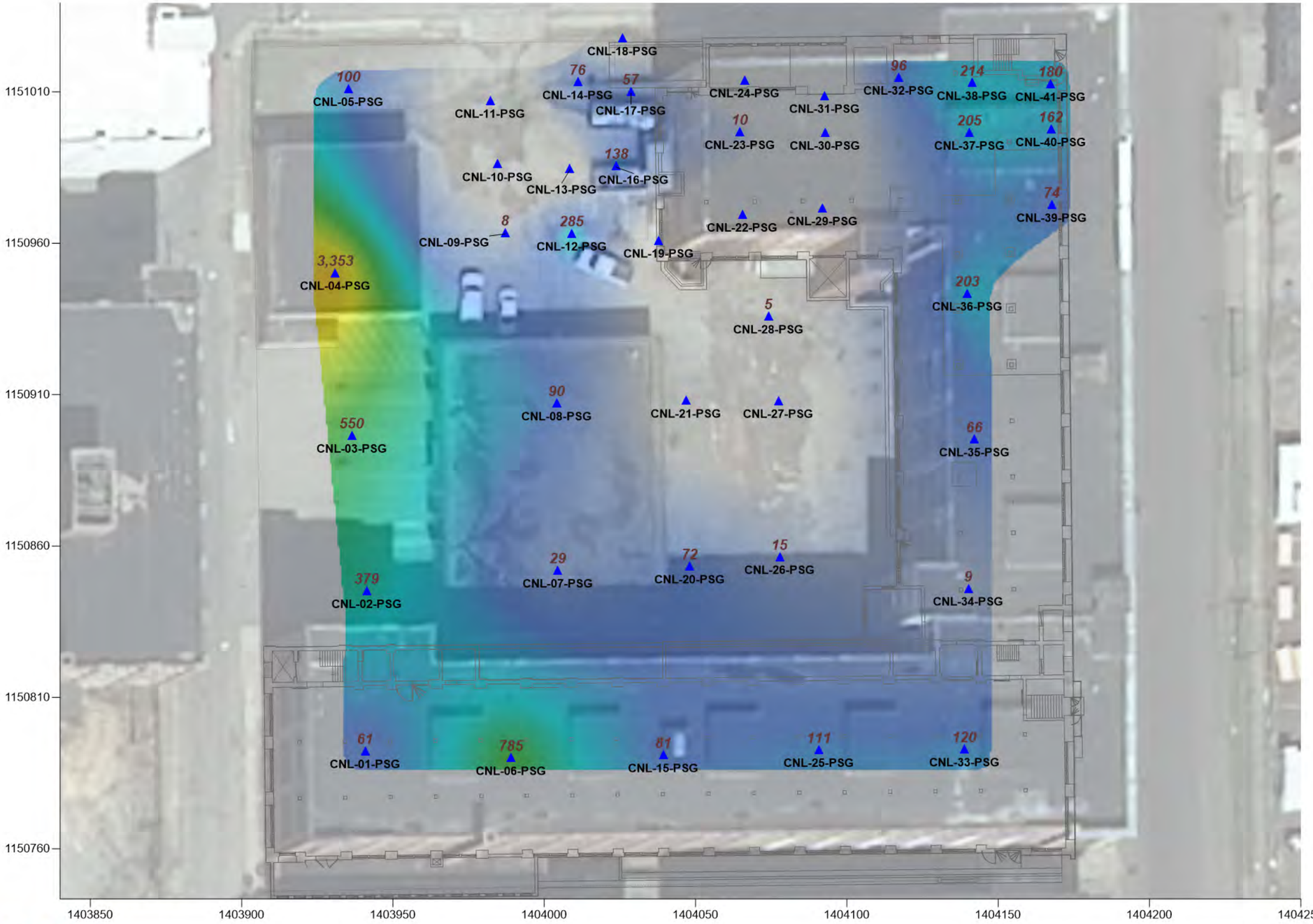
Scale in Feet

0 35 70

System:	US State Plane
Zone:	New York West 3103
Datum:	NAD83
Coordinate Units:	Feet

Figure 1
Passive Soil-Gas Survey
Sample Locations

Canal Street
Rochester, NY



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1,000 NANOGRAMS/SAMPLER

CNL-15-PSG ▲ PASSIVE SOIL-GAS SAMPLE LOCATION

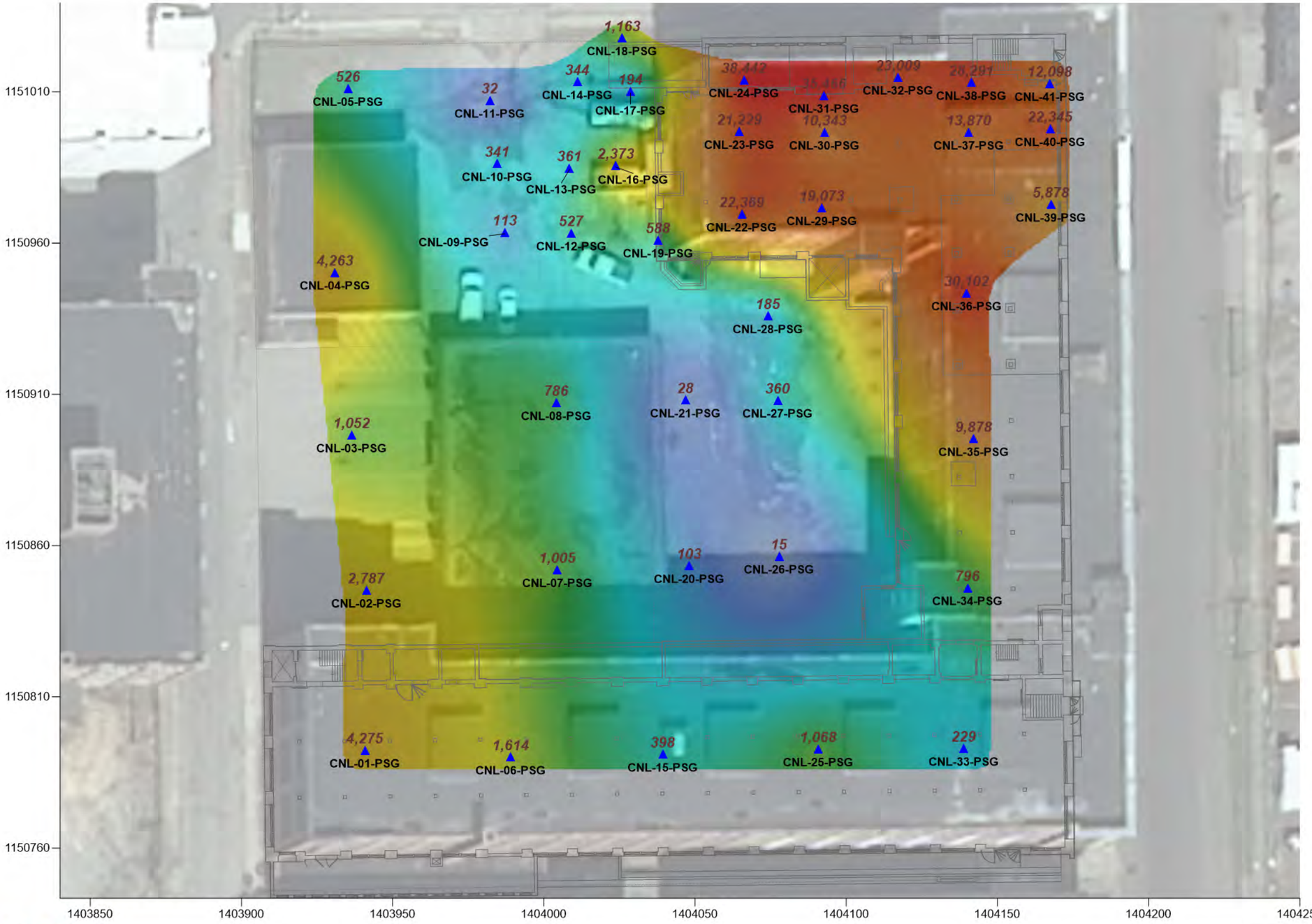
Scale in Feet

0 35 70

System:	US State Plane
Zone:	New York West 3103
Datum:	NAD83
Coordinate Units:	Feet

Figure 2
Passive Soil-Gas Survey
Total CVOCs

Canal Street
Rochester, NY



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LEGEND

1,000 NANOGRAMS/SAMPLER

CNL-15-PSG ▲ PASSIVE SOIL-GAS SAMPLE LOCATION

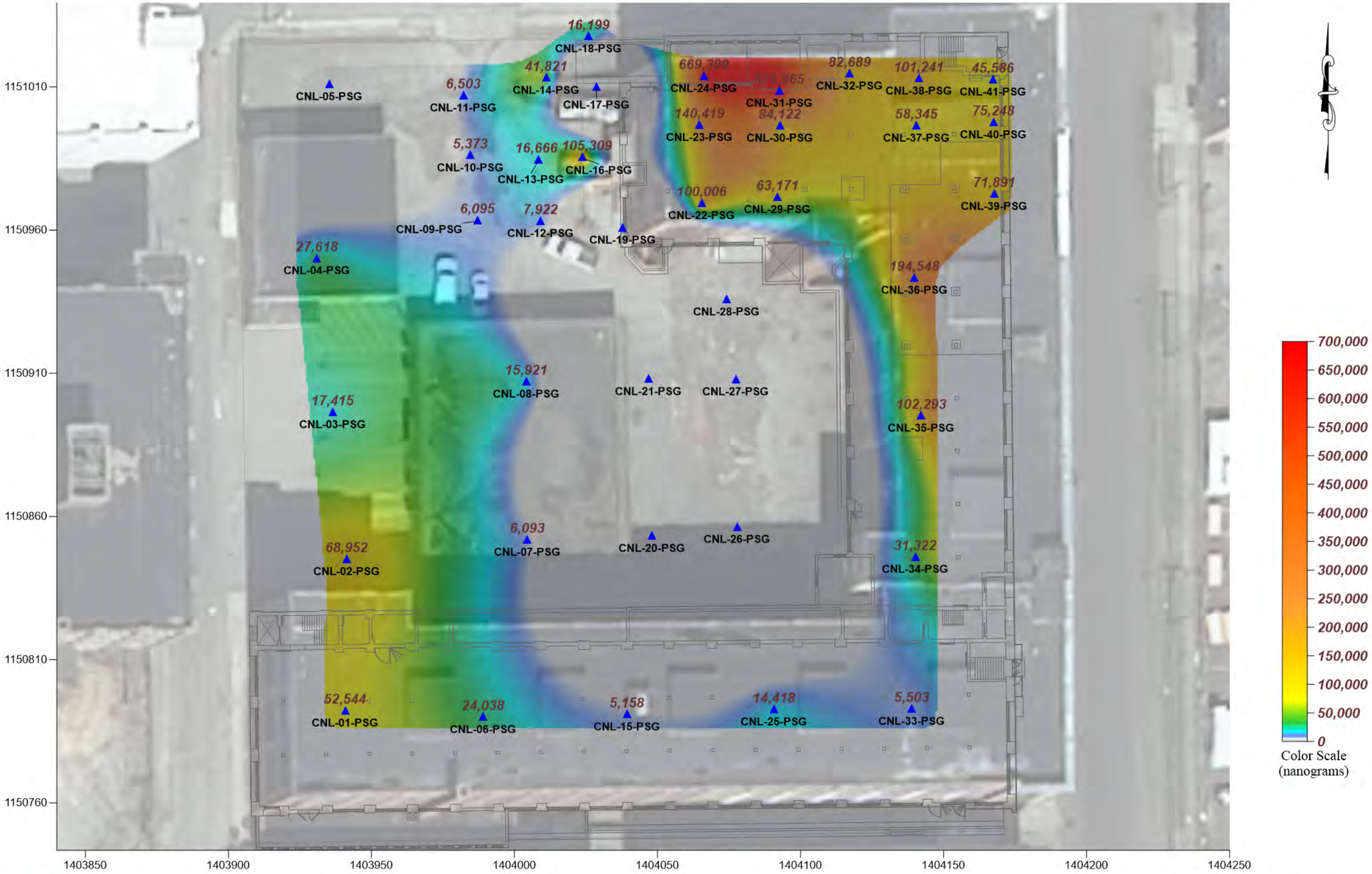
Scale in Feet

0 35 70

System: US State Plane
Zone: New York West 3103
Datum: NAD83
Coordinate Units: Feet

Figure 3
Passive Soil-Gas Survey
Total VOCs

Canal Street
Rochester, NY



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Beacon Project No. 4085, August 2018

LEGEND

1,000 NANOGRAMS/SAMPLER

CNL-15-PSG PASSIVE SOIL-GAS SAMPLE LOCATION

Scale in Feet

0 35 70

System: US State Plane
Zone: New York West 3103
Datum: NAD83
Coordinate Units: Feet

Figure 4
Passive Soil-Gas Survey
Total Petroleum Hydrocarbons

Canal Street
Rochester, NY

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	LB180816c	Trip-1	Trip-2	CNL-01-PSG	CNL-02-PSG	CNL-03-PSG
Project Number:		4085	4085	4085	4085	4085
Lab File ID:	C18081603	C18081607	C18081608	C18081609	C18081610	C18081611
Received Date:		8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Time:	15:55	17:37	17:59	18:21	18:42	19:08
Matrix:				Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Methyl-t-butyl ether	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10	**5 J**
Chloroform	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	<25	<25	<25	**144**	**340**	**36**
Trichloroethene	<10	<10	<10	**15**	**31**	**89**
1,4-Dioxane	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	<25	<25	<25	**312**	**753**	**42**
1,2-Dibromoethane (EDB)	<25	<25	<25	<25	<25	<25
Tetrachloroethene	<10	<10	<10	**46**	**348**	**456**
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	<25	<25	**558**	**87**	**52**
p & m-Xylene	<25	<25	<25	**2,413**	**555**	**244**
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	<25	<25	<25	**550**	**195**	**99**
1,2,3-Trichloropropane	<25	<25	<25	<25	<25	<25
Isopropylbenzene	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	<25	<25	<25	**82**	**151**	<25
1,2,4-Trimethylbenzene	<25	<25	<25	**156**	**264**	**29**
1,3-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25	<25	<25	<25
Naphthalene	<25	<25	<25	<25	<25	<25
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25
2-Methylnaphthalene	<25	<25	<25	<25	**62**	<25
TPH C_4-C_9	<5,000	<5,000	<5,000	**38,854**	**38,102**	**8,930**
TPH C_{10}-C_{15}	<5,000	<5,000	<5,000	**13,690**	**30,850**	**8,485**

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	CNL-03-PSG-Dup	CNL-04-PSG	CNL-05-PSG	CNL-06-PSG	CNL-07-PSG	CNL-08-PSG
Project Number:	4085	4085	4085	4085	4085	4085
Lab File ID:	C18081612	C18081613	C18081614	C18081615	C18081616	C18081617
Received Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Time:	19:30	19:54	20:16	20:39	21:01	21:23
Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Methyl-t-butyl ether	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Chloroform	<25	<25	<25	**35**	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	**36**	**124**	**27**	**48**	<25	**56**
Trichloroethene	**90**	**202**	**23**	**36**	<10	<10
1,4-Dioxane	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	**43**	**252**	**398**	**693**	**67**	**259**
1,2-Dibromoethane (EDB)	<25	<25	<25	<25	<25	<25
Tetrachloroethene	**442**	**3,151**	**77**	**748**	**29**	**90**
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	**57**	**68**	<25	<25	**133**	**32**
p & m-Xylene	**270**	**244**	<25	**54**	**568**	**137**
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	**110**	**105**	<25	<25	**174**	**56**
1,2,3-Trichloropropane	<25	<25	<25	<25	<25	<25
Isopropylbenzene	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	<25	**30**	<25	<25	<25	**33**
1,2,4-Trimethylbenzene	**36**	**88**	<25	<25	**34**	**86**
1,3-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25	<25	<25	<25
Naphthalene	<25	<25	<25	<25	<25	<25
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25
2-Methylnaphthalene	<25	<25	<25	<25	<25	**38**
TPH C_4-C_9	**9,129**	**21,785**	<5,000	**11,865**	**6,093**	**7,100**
TPH C_{10}-C_{15}	**9,340**	**5,834**	<5,000	**12,173**	<5,000	**8,821**

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	CNL-09-PSG	CNL-10-PSG	CNL-11-PSG	CNL-12-PSG	CNL-13-PSG	CNL-14-PSG
Project Number:	4085	4085	4085	4085	4085	4085
Lab File ID:	C18081618	C18081619	C18081620	C18081621	C18081622	C18081623
Received Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Time:	21:45	22:07	22:29	22:50	23:12	23:34
Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Methyl-t-butyl ether	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Chloroform	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	<25	<25	<25	<25	**44**	**31**
Trichloroethene	<10	<10	<10	**30**	<10	**14**
1,4-Dioxane	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	<25	<25	**32**	**27**	**40**	**156**
1,2-Dibromoethane (EDB)	<25	<25	<25	<25	<25	<25
Tetrachloroethene	**8 J**	<10	<10	**255**	<10	**62**
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	**55**	<25	**32**	**39**	<25
p & m-Xylene	**71**	**207**	<25	**130**	**166**	**53**
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	**34**	**80**	<25	**53**	**71**	**29**
1,2,3-Trichloropropane	<25	<25	<25	<25	<25	<25
Isopropylbenzene	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	<25	<25	<25	<25	<25	<25
1,3-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25	<25	<25	<25
Naphthalene	<25	<25	<25	<25	<25	<25
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25
2-Methylnaphthalene	<25	<25	<25	<25	<25	<25
TPH C_4-C_9	<5,000	**5,373**	<5,000	<5,000	**11,364**	**7,794**
TPH C_{10}-C_{15}	**6,095**	<5,000	**6,503**	**7,922**	**5,302**	**34,026**

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	CNL-14-PSG-Dup	CNL-15-PSG	CNL-16-PSG	CNL-17-PSG	CNL-18-PSG	CNL-19-PSG
Project Number:	4085	4085	4085	4085	4085	4085
Lab File ID:	C18081624	C18081625	C18081626	C18081627	C18081628	C18081629
Received Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Date:	8/16/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018
Analysis Time:	23:56	0:18	0:40	1:02	1:24	1:46
Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Methyl-t-butyl ether	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Chloroform	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	<25	<25	**94**	**28**	<25	<25
Trichloroethene	<10	**6 J**	**19**	<10	<10	<10
1,4-Dioxane	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	**79**	**102**	**117**	**31**	**1,118**	**42**
1,2-Dibromoethane (EDB)	<25	<25	<25	<25	<25	<25
Tetrachloroethene	**51**	**75**	**118**	**57**	<10	<10
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	**31**	**242**	<25	<25	**79**
p & m-Xylene	**36**	**137**	**1,007**	**51**	**45**	**333**
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	<25	**47**	**258**	<25	<25	**135**
1,2,3-Trichloropropane	<25	<25	<25	<25	<25	<25
Isopropylbenzene	<25	<25	**78**	<25	<25	<25
1,3,5-Trimethylbenzene	<25	<25	**255**	<25	<25	<25
1,2,4-Trimethylbenzene	<25	<25	**185**	**27**	<25	<25
1,3-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25	<25	<25	<25
Naphthalene	<25	<25	<25	<25	<25	<25
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25
2-Methylnaphthalene	<25	<25	<25	<25	<25	<25
TPH C_4-C_9	**7,395**	**5,158**	**85,152**	<5,000	**6,674**	<5,000
TPH C_{10}-C_{15}	**31,495**	<5,000	**20,158**	<5,000	**9,526**	<5,000

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	CNL-20-PSG	CNL-21-PSG	CNL-22-PSG	CNL-23-PSG	CNL-24-PSG	CNL-25-PSG
Project Number:	4085	4085	4085	4085	4085	4085
Lab File ID:	C18081630	C18081631	C18081632	C18081633	C18081634	C18081635
Received Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Date:	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018
Analysis Time:	2:08	2:30	2:51	3:13	3:35	3:58
Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	<10	<10	<10	**10**	<10	<10
Methyl-t-butyl ether	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Chloroform	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	<25	<25	**124**	**306**	**1,112**	<25
Trichloroethene	<10	<10	<10	<10	<10	**10**
1,4-Dioxane	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	**32**	<25	**792**	**1,107**	**590**	**312**
1,2-Dibromoethane (EDB)	<25	<25	<25	<25	<25	<25
Tetrachloroethene	**72**	<10	<10	<10	<10	**101**
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	<25	<25	**53**	**4,063**	<25
p & m-Xylene	<25	**28**	**96**	**146**	**8,904**	**66**
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	<25	<25	**33**	**51**	**2,851**	<25
1,2,3-Trichloropropane	<25	<25	<25	<25	<25	<25
Isopropylbenzene	<25	<25	<25	**38**	**988**	<25
1,3,5-Trimethylbenzene	<25	<25	**27**	**45**	**4,796**	**29**
1,2,4-Trimethylbenzene	<25	<25	**32**	**55**	**7,814**	**44**
1,3-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25	<25	<25	<25
Naphthalene	<25	<25	**8,052**	**7,412**	**3,301**	**228**
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25
2-Methylnaphthalene	<25	<25	**13,212**	**12,005**	**4,022**	**278**
TPH C_4-C_9	<5,000	<5,000	**32,778**	**66,861**	**398,130**	**5,027**
TPH C_{10}-C_{15}	<5,000	<5,000	**67,228**	**73,558**	**271,269**	**9,391**

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	CNL-25-PSG-Dup	CNL-26-PSG	CNL-27-PSG	CNL-28-PSG	CNL-29-PSG	CNL-30-PSG
Project Number:	4085	4085	4085	4085	4085	4085
Lab File ID:	C18081636	S18081705	S18081706	S18081707	C18081640	C18081641
Received Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Date:	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018
Analysis Time:	4:19	16:46	17:08	17:32	5:47	6:09
Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Methyl-t-butyl ether	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Chloroform	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	**26**	<25	<25	<25	**71**	**251**
Trichloroethene	**16**	<10	<10	<10	<10	<10
1,4-Dioxane	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	**301**	<25	**360**	**180**	**1,064**	**529**
1,2-Dibromoethane (EDB)	<25	<25	<25	<25	<25	<25
Tetrachloroethene	**85**	**15**	<10	**5 J**	<10	<10
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	<25	<25	<25	<25	**99**
p & m-Xylene	**37**	<25	<25	<25	**58**	**440**
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	<25	<25	<25	<25	<25	**164**
1,2,3-Trichloropropane	<25	<25	<25	<25	<25	<25
Isopropylbenzene	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	<25	<25	<25	<25	**28**	**76**
1,2,4-Trimethylbenzene	<25	<25	<25	<25	**37**	**70**
1,3-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25	<25	<25	<25
Naphthalene	**119**	<25	<25	<25	**7,583**	**4,413**
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25
2-Methylnaphthalene	**105**	<25	<25	<25	**10,231**	**4,303**
TPH C_4-C_9	<5,000	<5,000	<5,000	<5,000	**15,636**	**39,692**
TPH C_{10}-C_{15}	**6,291**	<5,000	<5,000	<5,000	**47,535**	**44,430**

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	CNL-31-PSG	CNL-32-PSG	CNL-33-PSG	CNL-34-PSG	CNL-35-PSG	CNL-36-PSG
Project Number:	4085	4085	4085	4085	4085	4085
Lab File ID:	C18081642	C18081643	S18081708	S18081709	C18081646	C18081647
Received Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Analysis Date:	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018
Analysis Time:	6:30	6:52	17:54	18:18	7:58	8:20
Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Methyl-t-butyl ether	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Chloroform	<25	<25	**30**	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	**611**	**114**	<25	<25	**304**	**175**
Trichloroethene	<10	**26**	**19**	<10	**11**	**10**
1,4-Dioxane	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	**1,051**	**3,485**	**27**	**656**	**930**	**1,668**
1,2-Dibromoethane (EDB)	<25	<25	<25	<25	<25	<25
Tetrachloroethene	<10	**70**	**101**	**9 J**	**55**	**193**
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	**1,262**	**32**	<25	<25	**175**	**3,246**
p & m-Xylene	**4,230**	**90**	**52**	**56**	**857**	**14,487**
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	**1,261**	**44**	<25	<25	**153**	**8,607**
1,2,3-Trichloropropane	<25	<25	<25	<25	<25	<25
Isopropylbenzene	**231**	<25	<25	<25	**27**	**115**
1,3,5-Trimethylbenzene	**4,468**	**50**	<25	<25	**173**	**342**
1,2,4-Trimethylbenzene	**6,503**	**50**	<25	**34**	**131**	**672**
1,3-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25	<25	<25	<25
Naphthalene	**6,806**	**7,432**	<25	**40**	**3,907**	**190**
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25
2-Methylnaphthalene	**9,043**	**11,617**	<25	<25	**3,156**	**396**
TPH C_4-C_9	**555,454**	**21,963**	**5,503**	**11,656**	**60,724**	**119,532**
TPH C_{10}-C_{15}	**120,511**	**60,727**	<5,000	**19,666**	**41,570**	**75,016**

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	CNL-37-PSG	CNL-38-PSG	CNL-39-PSG	CNL-40-PSG	CNL-41-PSG	LB180817s
Project Number:	4085	4085	4085	4085	4085	
Lab File ID:	C18081648	C18081649	C18081650	C18081651	C18081652	S18081703
Received Date:	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	
Analysis Date:	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018
Analysis Time:	8:42	9:04	9:26	9:47	10:09	16:00
Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Methyl-t-butyl ether	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	**12**	**9 J**	<10	**8 J**	<10	<10
Chloroform	**60**	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	**56**	**56**	**159**	**72**	**77**	<25
Trichloroethene	**61**	**100**	**10 J**	**74**	**58**	<10
1,4-Dioxane	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	**687**	**1,458**	**2,294**	**333**	**1,073**	<25
1,2-Dibromoethane (EDB)	<25	<25	<25	<25	<25	<25
Tetrachloroethene	**132**	**106**	**64**	**80**	**123**	<10
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	**365**	<25	**54**	**189**	**70**	<25
p & m-Xylene	**1,153**	**101**	**190**	**94**	**321**	<25
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	**533**	**43**	**73**	**33**	**102**	<25
1,2,3-Trichloropropane	<25	<25	<25	<25	<25	<25
Isopropylbenzene	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	**112**	**28**	**53**	**28**	**27**	<25
1,2,4-Trimethylbenzene	**188**	**29**	**115**	**30**	**38**	<25
1,3-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25	<25	<25	<25
Naphthalene	**4,374**	**11,847**	**1,568**	**8,495**	**5,123**	<25
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25
2-Methylnaphthalene	**6,138**	**14,513**	**1,299**	**12,908**	**5,087**	<25
TPH C_4-C_9	**19,682**	**14,760**	**44,714**	**8,812**	**15,783**	<5,000
TPH C_{10}-C_{15}	**38,663**	**86,481**	**27,177**	**66,437**	**29,803**	<5,000

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.