

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



Sit	e No. 91	5171	Site Details		Box 1	
Sit	e Name NFG -	Gastown MGP Tonawa	ında			
Cit Co	e Address: 126 y/Town: Tonaw unty:Erie e Acreage: 1.49		Zip Code: 14150			
Re	porting Period:	August 30, 2018 to Augu	ust 30, 2019			
					YES	NO
1.	Is the informati	on above correct?			X	
	If NO, include I	nandwritten above or on	a separate sheet.			
2.		ll of the site property bee dment during this Report	en sold, subdivided, merged, o ing Period?	r undergone a		X
3.	Has there beer (see 6NYCRR	, ,	ne site during this Reporting Po	eriod		X
4.	•	ral, state, and/or local pe operty during this Report	ermits (e.g., building, discharge ing Period?	e) been issued		X
			thru 4, include documentation			
5.	Is the site curre	ently undergoing develop	oment?			X
					Box 2	
					YES	NO
6.	Is the current s Commercial ar	ite use consistent with th nd Industrial	ne use(s) listed below?		X	
7.	Are all ICs/ECs	s in place and functioning	g as designed?		X	
			ESTION 6 OR 7 IS NO, sign a REST OF THIS FORM. Otherw		and	
A	Corrective Meas	ures Work Plan must be	submitted along with this for	m to address ti	nese iss	ues.
Sig	nature of Owner	Remedial Party or Desig	nated Representative	Date		

SITE NO. 915171 Box 3

#### **Description of Institutional Controls**

<u>Parcel</u> <u>Owner</u>

**39.38-3-4** Mr. Guy Holler

Institutional Control

Ground Water Use Restriction Soil Management Plan Landuse Restriction

Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property that:

- requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allows the use and development of the controlled property for commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
- · prohibits agriculture or vegetable gardens on the controlled property; and
- · requires compliance with the Department approved Site Management Plan.

Box 4

#### **Description of Engineering Controls**

Parcel Engineering Control

39.38-3-4

Vapor Mitigation

**Groundwater Containment** 

Cover System
Subsurface Barriers

The following Engineering Controls have been installed:

A site cover to allow for commercial use of the site. Any site redevelopment will maintain a site cover, which may consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where a soil cover is required, it will be a minimum one foot soil meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover is placed over a demarcation layer, with the uppermost six inches of soil of sufficient quality to maintain a vegetation layer.

Two Non-aqueous phase liquid (NAPL) collection trenches at the Gastown Sportsmen's Club property lines.

Two NAPL collection wells west of the railroad tracks.

Six sub-slab depressurization systems (SSDS) at the identified areas west of the railroad tracks, and one at the Gastown Sportsmen's Club.

A NAPL collection trench along the Canal to prevent any contamination from reaching the creek in the future.

Box	5
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	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 compete.
	YES NO
	${f X}$
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
	${f X}$
	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 Date

#### IC CERTIFICATIONS SITE NO. 915171

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.

	syrvet, williamsvilk, wy, ess address
am certifying asRendfol PARTY	(Owner or Remedial Party)
for the Site named in the Site Details Section of this form.	
Signature of Owner, Remedial Party, or Designated Representa	10-31-/9 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 Kopcow		ints, Inc., P.C. isburg Road, Suite N,	, Ithaca, NY 14850 ,
print name	print	business address	
am certifying as a Professional Enginee		Remedial Party	
	/EC	F NEW Owner or Re	emedial Party)
	STATE	A. KON CONT	
1 1	EG ()	£ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
	Tex V	18	
Omur C	PROF	ESSIONAL ET	11/7/2019
Signature of Professional Engineer, for		Stamp	Date
Remedial Party, Rendering Certification	1	(Required for PE	)





Consulting
Engineers and
Scientists

# 2019 Periodic Review Report

# Former Gastown Manufactured Gas Plant Site Tonawanda, Erie County, New York

NYSDEC Site Number: 915171

#### Prepared For:

National Fuel Gas Distribution Corporation 6363 Main Street Williamsville, NY 14221

#### Prepared By:

GEI Consultants, Inc., P.C. 1301 Trumansburg Road, Suite N Ithaca, NY 14850

November 7, 2019 Project 091220

64

Daniel Kopcow, P.E., PMP

Project Manager

Joseph Simone, P.E. Senior Engineer

## **Engineer's Certification**

I, <u>Daniel Kopcow</u>, <u>P.E.</u>, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375, and that this Periodic Review Report was prepared in accordance with the Site Management Plan (SMP) for the Former Gastown Manufactured Gas Plant (MGP) site, and all applicable statutes and regulations, and in substantial conformance with the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10).



Engineer's Seal GEI Consultants, Inc., P.C.

11/7/2019 Date

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

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B. 2019 SSDS Inspection Forms

#### 1. Introduction

This Periodic Review Report (PRR) for monitoring and inspection is required as an element of the post-remedial program for the Site Management Plan (SMP) at the Former Gastown Manufactured Gas Plant (MGP) Site under the New York State Inactive Hazardous Waste Disposal Site Remedial Program administered by the New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Order on Consent Index # A9-0599-05-08, Site #915171, which was executed on July 16, 2008 and the Amended Record of Decision, dated April 4, 2013. The remedial elements included the following:

- Demolition of Buildings E, F, G, and H;
- Shallow soil excavation to 4 feet below grade in the west yard, east yard, a portion of the Niagara Frontier Transportation Authority (NFTA) property, and under the demolished buildings to create a clean utility zone that was subsequently backfilled with clean fill;
- Site cover maintained for commercial use of the Site;
- Removal of the relief holder and underlying material to the top of clay;
- In-situ solidification/stabilization (ISS) to the top of clay in the west yard, east yard, and under the demolished buildings; ISS to the top of clay on the NFTA property to within 10 feet laterally of the AT&T fiber optic cable; and ISS around the relief holder;
- Installation of non-aqueous phase liquid (NAPL) collection trenches at the Gastown Sportsmen's Club property lines and two NAPL collection wells west of the railroad tracks;
- Installation of soil vapor intrusion mitigation measures including a vapor barrier or sub-slab depressurization systems (SSDS) at areas west of the railroad tracks, Gastown Sportsmen's Club, and buildings at 126 East Niagara Street;
- Sediment remediation and NAPL collection trench installation along the Canal;
- Imposition of an Institutional Control in the form of an environmental easement at the Site; and
- Site Management Plan preparation.

#### 1.1 General

National Fuel Gas Distribution Corporation (NFGDC) entered into the above-referenced Order on Consent with the NYSDEC to remediate the former Gastown MGP site located along East

Niagara Street in Tonawanda, Erie County, New York. The Order on Consent required the Remedial Party (NFGDC) to investigate and remediate impacted media at the Site.

The remediation of the Site was completed in April 2016, and the NYSDEC has approved the Final Engineering Report (FER) [GEI, 2016a]. Also approved by the NYSDEC was the SMP prepared by GEI in September 2016 [GEI, 2016b], and amended in July 2017.

The SMP identifies the required post-remedial tasks, including: NAPL gauging (and removal if identified), monitoring the Sportsmen's Club groundwater sump system, monitoring subsurface depressurization systems, and an annual inspection of post-remedial engineering controls. In addition, the NYSDEC operates a groundwater treatment system with an existing State Pollutant Discharge Elimination System (SPDES) permit.

#### 1.2 Site Location and Description

The location of the Site is shown on Figure 1. The current Site plan is shown on Figure 2. The engineering controls of the Site are shown on Figures 3 and 4.

The Site is located in Tonawanda, Erie County, New York and is identified as Section 39 Block 38-3 and Lot 4 on the City of Tonawanda Tax Map (see Appendix A of the SMP). The Site is an approximately 1.5-acre area and is bounded by Tonawanda Creek, an active segment of the New York State Barge Canal System to the north. The adjacent property to the east is owned by NFTA, which leases a portion of its property to the Gastown Sportsman's Club for use as a parking lot. An active CSX rail line and rail line spur form the western and southern borders of the Site, respectively. Much of the property to the east of the Sportsman's Club property and to the west of the CSX rail line is residential (see Figure 2 – Site Layout Map). A narrow strip of land with a paved recreational path exists between East Niagara Street and Tonawanda Creek. The boundaries of the Site are more fully described in Appendix A of the SMP – Metes and Bounds. The owner of the Site at the time of issuance of this SMP is/are:

Holler Properties, Inc. c/o Guy Holler at Niagara Construction 126 East Niagara Street Tonawanda, New York 14150

Adjacent properties with engineering controls are located at:

- 84-86 East Niagara Street
- 96 East Niagara Street
- 13 East Avenue
- 16 East Avenue
- Sportsmen's Club at 154-156 East Niagara Street

# 2019 Periodic Review Report Former Gastown MGP Site

- Niagara Frontier Transportation Authority (NFTA) at East Niagara Street
- Open Bible Baptist School (School) at 72 East Niagara Street

A list of contacts for this Site is provided in Table 2.

#### 2. 2019 SMP Field Activities and Results

As specified in the SMP, the annual field activities required for the Site include:

- The assessment of the presence or absence of dense phase non-aqueous phase liquid (DNAPL) at identified site well locations and NAPL trench locations.
- The monitoring of the sub-slab depressurization systems (SSDS).
- The monitoring of the Sportsmen's Club sump system.

#### 2.1 Sub-Slab Depressurization Systems Monitoring

As part of the remedy, as a precaution, subsurface depressurization systems were installed in October 2008 at residences and a school west of the Site and at the Sportsman's Club locations. These systems are monitored annually during the heating season. The system at 80 East Niagara Street was removed July 14, 2017, per the homeowner's request. The exhaust fan on the SSDS system at 16 East Ave. is scheduled to be replaced during the Fourth Quarter 2019 as it is exhibiting signs of failure. All other systems are functioning normally. The depressurization systems were monitored and the forms are included in Appendix B.

#### 2.2 Sportsmen's Club Groundwater Sump System

At the Sportsman's Club, a foundation perimeter groundwater drain system discharges to two collection sumps. The system was installed in 1998 during the construction of the structure to manage high groundwater events. Subsequently, NAPL was found in the sumps and their discharge was connected to a treatment and collection facility with off-site disposal of collected NAPL. The treatment and collection facility is currently managed by the NYSDEC. The sumps are monitored on an as-needed basis and annually during the sub-slab depressurization system monitoring noted above. The plumbing from the Sportsmen's Club sump was connected to the NAPL collection trench B, as described above.

Sump maintenance at the Sportsman's Club was performed in 2019 and included the following activities:

- Replacement of primary sump pump due to pump failure- January 25, 2019
- Cleaning sumps of accumulated sediment- February 15, 2019

# 3. Environmental Controls / Institutional Controls and Site Inspection

#### 3.1 General

Because contaminants of concern (COC) in soil and groundwater remain in the subsurface of the site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment.

#### 3.2 Engineering Controls

The ECs included the soil cover system and asphalt cap. They are identified in the SMP. The results of the inspection performed of the ECs by GEI are discussed below. The 2019 SMP Annual Inspection Forms are included in Appendix A.

#### 3.2.1 Cover System Monitoring

The third annual site inspection was conducted on October 23, 2019 to observe the condition of the cover systems at the site. The locations of the ECs are shown on Figure 3.

As indicated on the form, the cover system remains in place, and continues to be effective at preventing direct exposure to COCs present in the subsurface.

#### 3.3 Institutional Controls

The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the Site, as defined in the SMP, are:

- The property may only be used for commercial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted or restricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC.
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP.
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use.

- The potential for vapor intrusion must be evaluated for any buildings developed in the area of the Site, and potential impacts that are identified must be monitored or mitigated.
- Vegetable gardens and farming on the property are prohibited.

Based on the inspection of the Site performed by GEI, and on correspondence with NFGDC, the Site Owner, and the NYSDEC, the ICs, as identified in the SMP, adhere to the requirements of the Environmental Easement, remain in place, and are effective for the Site.

#### 3.4 Media Monitoring

#### 3.4.1 NAPL Monitoring and Removal

As part of the remedy, NAPL recovery wells and collection trenches have been installed. The wells are installed west of the Site and the trenches are located north of the Site along Tonawanda Creek, and adjacent to the Sportsman's Club east of the Site. The intent of the wells and trenches is to collect any residual recoverable NAPL that may be present, as well as residual recoverable NAPL that may migrate to these areas due to natural or man-made effects, precluding potential impacts to the surrounding areas. Since 2016, when NAPL monitoring began, approximately 0.83 gallons of NAPL have been recovered from all locations. Table 1 and Figure 5 summarize the NAPL monitoring performed since 2016. As shown on Table 1 and Figure 5, NAPL was last removed in August 2018. NAPL monitoring was performed in February and October 2019.

#### 3.4.2 Groundwater Sampling

Influent and effluent water for the groundwater treatment system is currently sampled and analyzed monthly by the NYSDEC, per the approved SMP. Groundwater treatment system data for the 2019 monitoring period have not been transmitted to GEI as of the date of this PRR.

#### 3.4.3 Conclusions

To date, there have been approximately 0.83 gallons of NAPL recovered from the NAPL monitoring locations. According to the SMP, after a period of five years, if there is no significant volume of NAPL recovered (less than 1 gallon cumulatively from all three trenches), then the NAPL monitoring program will be discontinued. After three-and-a-half years of monitoring to date, the NAPL volume appears to be within that limit.

#### 4. Conclusions

Conclusions for this 2019 PRR are:

- **Media Monitoring**: Media monitoring tasks identified in the SMP were performed in 2019, including: NAPL gauging and groundwater sampling.
- **Engineering Controls**: The inspection of the site was performed in 2019, as specified in the SMP.
  - The inspection confirmed the effectiveness of the ECs required by the remedial program.
  - The ECs employed at the Gastown MGP site are unchanged from the date the control was put in place, or last approved by the NYSDEC.
- Institutional Controls: Conclusions for the ICs, based on the inspection of the Site performed by GEI, and on correspondence with NFGDC, the Site Owner, and the NYSDEC include:
  - The ICs employed at the Gastown MGP Site are unchanged from the date the control was put in place, or last approved by the NYSDEC.
  - Nothing has occurred that would impair the ability of the control to protect the public health and environment.
  - Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control.
  - Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control.
  - Use of the Site is compliant with the Environmental Easement.

The Site remedy continues to be protective of public health and the environment as described in the SMP (GEI, 2016b) and FER.

### 4.1 2020 SMP Implementation

The field activities and annual inspection for the implementation of the SMP that are the responsibility of NFGDC as the Remedial Party will be implemented in 2020 in consultation with the NYSDEC Division of Environmental Remediation. GEI will evaluate the 2019 groundwater data following receipt from NYSDEC; if the influent benzene is above the 5 ppb SPDES discharge limit at that time, NFGDC and GEI will take responsibility for the benzene in the groundwater and evaluate what the next necessary steps are for monitoring and treatment.

### 5. References

GEI Consultants, Inc., P.C. (GEI), 2015. Remedial Design, Former Gastown Manufactured Gas Plant Site, Erie County, New York, NYSDEC Site Number 915171, May 2015.

GEI, 2016a. Final Engineering Report, Former Gastown Manufactured Gas Plant Site, Erie County, New York, NYSDEC Site Number 915171, September 2016.

GEI, 2016b. Site Management Plan, Former Gastown Manufactured Gas Plant Site, Erie County, New York, NYSDEC Site Number 915171, September 2016, amended July 2017.

New York State Department of Environmental Conservation (NYSDEC), 2007. Record of Decision, Former Gastown MGP Site, Tonawanda, Erie County, New York, Site Number 915171, March 2007.

NYSDEC, 2013. Record of Decision Amendment, Gastown MGP Tonawanda Site, City of Tonawanda, Erie County, Site No. 915171, April 2013.

## **Tables**

TABLE 1 NAPL Gauging Summary Table Gastown Former MGP- Tonawanda, NY

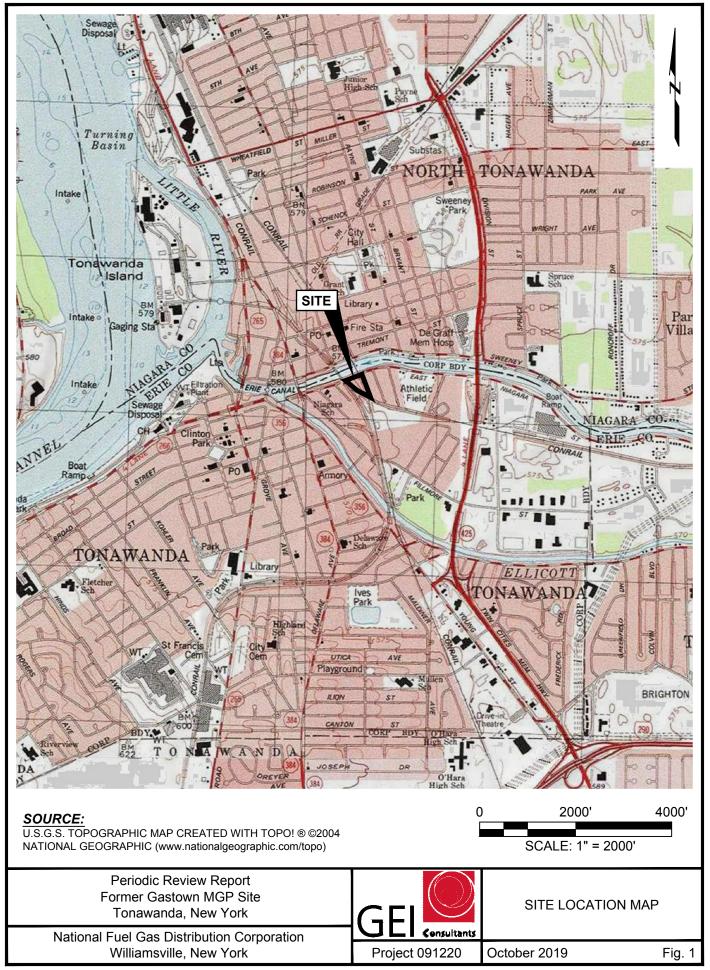
	Gauging Date GEI Personnel		3/22/2016		4/22/2016 . Belonsoff		5/23/2016		6/23/2016 . Belonsoff		7/21/2016	M Cuma	8/23/2016		2/20/2017
	Location	NAPL Thickness (ft.)	Cummings Notes	NAPL Thickness (ft.)	Notes	NAPL Thickness (ft.)	Cummings Notes	NAPL Thickness (ft.)	Notes	NAPL Thickness (ft.)	Cummings Notes	NAPL Thickness (ft.)	nings / J. Belonsoff Notes	NAPL Thickness (ft.)	/I.Cummings Notes
tion	TS-A	0	no odors	0	no odors	0	no odors	0	no odors	0	no odors	0	mild CT odor	0	mild CT odor
ollect	TS-B North	0	slight CT odor	0	slight CT odor	0	slight CT odor	0	slight CT odor	0	slight CT odor	0	light CT odor	0	light CT odor
PL C	TS-B South	0	slight CT odor	0	slight CT odor	0	slight CT odor	0	slight CT odor	0	slight CT odor	<1"	trace NAPL	2"	trace NAPL
Ž	TS-C	0	slight CT odor	0	slight CT odor	0.1	moderate CT odor, DNAPL at bottom	0	moderate CT odor	0.3	moderate CT odor, DNAPL at bottom	0.6	strong CT odor, ~8oz NAPL at bottom	0.6	strong CT odor, ~8oz NAPL at bottom
Wells	RW-01	0	no odors	0	no odors	0	no odors	0	no odors	0	no odors	0	no odors	0	no odors
NAPL very	RW-02	0	no odors	0	no odors	0	no odors	0	no odors	0	no odors	0	v. faint odor	0	light odor
Reco	RW-03	0	moderate CT odor	0	moderate CT odor	0	moderate CT odor	0	moderate CT odor	0	moderate CT odor	0	moderate CT odor	0	moderate CT odor

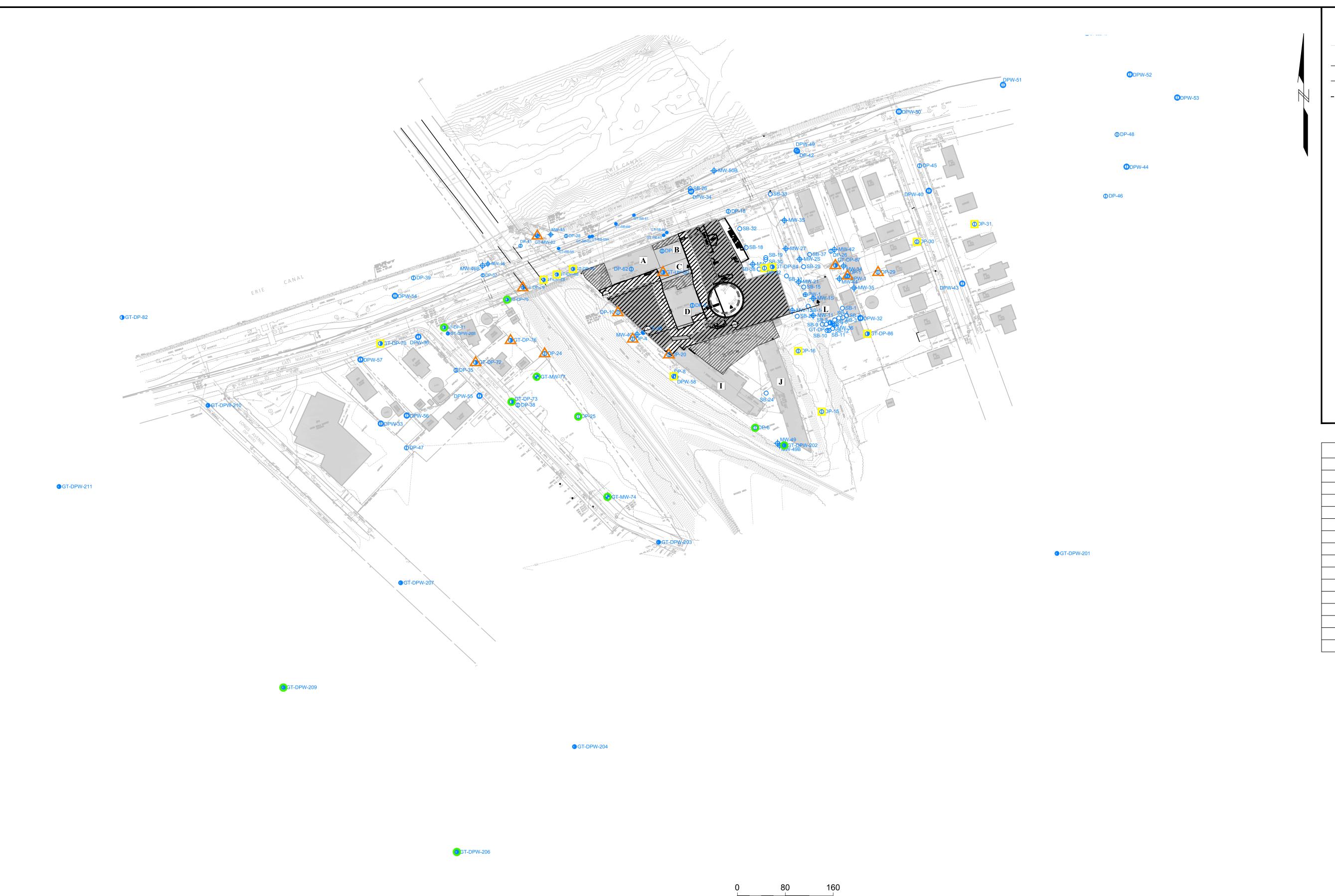
	Gauging Date		12/12/2016		8/7/2017		2/6/2018		8/30/2018		2/19/2019		8/5/2019
	<b>GEI Personnel</b>	М	.Cummings	M.	Cummings		J. Peake	М	.Cummings	M	l.Cummings	I	M.Cummings
	Location	NAPL Thickness (ft.)	Notes	NAPL Thickness (ft.)	Notes	NAPL Thickness (ft.)	Notes	NAPL Thickness (ft.)	Notes	NAPL Thickness (ft.)	Notes	NAPL Thickness (ft.)	Notes
					mild odor, trace		mild odor, silty		mild odor, silty		mild odor, silty		
	TS-A	0	mild CT odor	<1"	NAPL	0	bottom	0	bottom	0	bottom	7"	mild odor, silty bottom
	TS-B North	0	light CT odor	0	light CT odor	0	light odor, silty bottom	0	light odor, silty bottom	0	light odor, silty bottom	0	light odor, silty bottom
NAPL Collection Trenches	TS-B South	<1"	trace NAPL strong CT odor, ~8oz		trace NAPL on rope	2"	Light odor, ~2" NAPL on string, silty bottom. Water level influenced by overflow of Sportsmens Club outside sump.  Mild odor, ~1' NAPL on string, silty bottom. NAPL thickness, total depth not measured due to		Light odor, 7" of NAPL in clear bailer, total depth not measured due to NAPL presence.  Moderate odor, 8" of NAPL in clear bailer, silty bottom. NAPL thickness, total depth not measured due to	7"	Light odor, 7" of NAPL in clear bailer, total depth not measured due to NAPL presence.  Moderate odor, 8" of NAPL in clear bailer, silty bottom. NAPL thickness, total depth not measured due to	0"	Light odor, no NAPL present on weighted rope, double-checked with clear disposable bailer. Silty bottom.  Moderate odor, 8" of NAPL in clear bailer, silty bottom. NAPL thickness, total depth not measured due to
	TS-C RW-01	0.6 0	NAPL at bottom no odors	0.6	strong CT odor silty bottom		NAPL presence.  No odor, silty bottom.	8" 0	NAPL presence.  No odor, silty bottom.	8" 0	NAPL presence.  No odor, silty bottom.	8" 0	NAPL presence.  No odor, silty bottom.
Wells	IVAA-0 I	U	110 00015	U	light odor, hard	U	light odor, hard	0	light odor, hard		light odor, hard	0	NO OUDI, SIILY DOLLOTTI.
≥	RW-02	0	light odor	0	bottom	0	bottom.	0	bottom.	0	bottom.	0	light odor, hard bottom.
NAPL Recovery					moderate odor, silty		moderate odor, ~1' NAPL on string, silty		moderate odor, 16" NAPL in clear bailer, silty bottom, total depth not measured due to NAPL		moderate odor, 16" NAPL in clear bailer, silty bottom, total depth not measured due to NAPL		moderate odor, 14"  NAPL on weighted rope, silty bottom, total depth not measured
Ž	RW-03	0	moderate CT odor	1"	bottom	1'	bottom.	16"	presence.	16"	presence.	16"	due to NAPL presence.

**Table 2 – SMP Contacts** 

Name	Phone/Email Address
Guy Holler - Site Owner	(716) 693-4798 niagaraconst@aol.com
National Fuel Gas Distribution Corporation	(716) 857-7410 alexandert@natfuel.com
(Tanya Alexander) - Remedial Party	
Daniel R. Kopcow, P.E.	(607) 216-8976
	dkopcow@geiconsultants.com
Doug MacNeal - NYSDEC DER Project	(518) 402-9662 douglas.macneal@dec.ny.gov
Manager	
Glenn May - NYSDEC Regional HW	(716) 851-7220 Glenn.May@dec.ny.gov
Engineer and NYSDEC Site Control	
adjacent property owners	
SSDS – Fisher	16 East Avenue
SSDS and Recovery well – Hockenberry	86 East Niagara St
SSDS – Bardo	96 East Niagara St
SSDS – Open Bible Baptist Church	72 East Niagara St
SSDS – Gastown Sportsmen's Club	154 East Niagara St
NFTA – Niagara Frontier Transportation	East Niagara St
Authority	
Amy Reichhart Nixon Peabody - Remedial	(585) 263-1322
Party Attorney	areichhart@nixonpeabody.com

## **Figures**





SCALE, FEET

LEGEND: SURFACE ELEVATION CONTOUR (2 FT INTERVAL) (NAVD 88) — – – — PROPERTY BOUNDARY —————— STREET BOUNDRY ----- RELIEF HOLDER EXCAVATION EXTENT EXISTING STRUCTURE **BUILDING REMOVED** STRUCTURE DESIGNATION (SEE TABLE ON FIG. 2) ISS EXTENT STRUCTURE CLEARANCE AT ISS PLACEMENT TOPSOIL EXCAVATION AND CLEAN SOIL UTILITY ZONE (4FT BELOW GRADE) ◯ISS-# PRE-CHARACTERIZATION BORINGS GT-MW-# GEI MONITORING WELL JUNE 2009 GEI DIRECT-PUSH BORING JUNE 2009 ⊖GT-HA-# GEI SHALLOW SURFACE BORING JUNE 2009 **© GT-DPW-#** GEI DIRECT-PUSH WELL EXISTING MONITORING WELL EXISTING DIRECT-PUSH WELL **DPW-#** ○SB-# EXISTING SOIL BORING EXISTING DIRECT-PUSH BORING 0 COMPLIANT WITH UNRESTRICTED SCOs **EXCEEDANCE OF UNRESTRICTED SCOs** EXCEEDANCE OF COMMERCIAL SCOs

R OR OCCUPANT NDING SERVICE, INC. NSTRUCTION CO, INC. C. ROTT & SON, INC.
NSTRUCTION CO, INC.
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C. ROTT & SON, INC.
NDING SERVICE, INC.
MOORE, INC.
NDUSTRIES, INC
NDUSTRIES, INC.
NDUSTRIES, INC.
CONSTRUCTION
LAKES GEAR CO.
HE CUTTING EDGE
TSMAN'S CLUB
TSMAN'S CLUB
NYSDEC
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Periodic Review Report Former Gastown MGP Site Tonawanda, New York

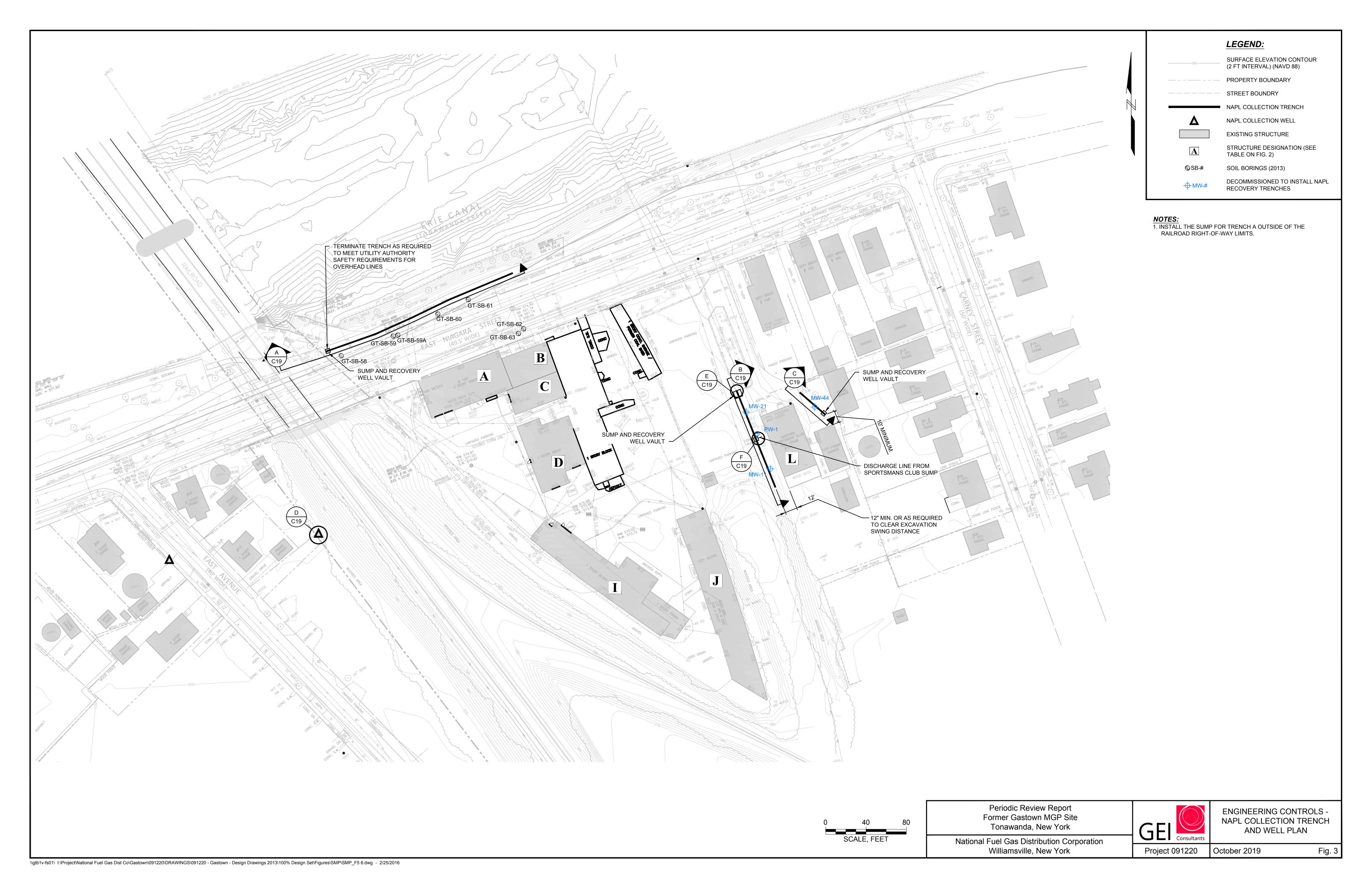
National Fuel Gas Distribution Corporation Williamsville, New York

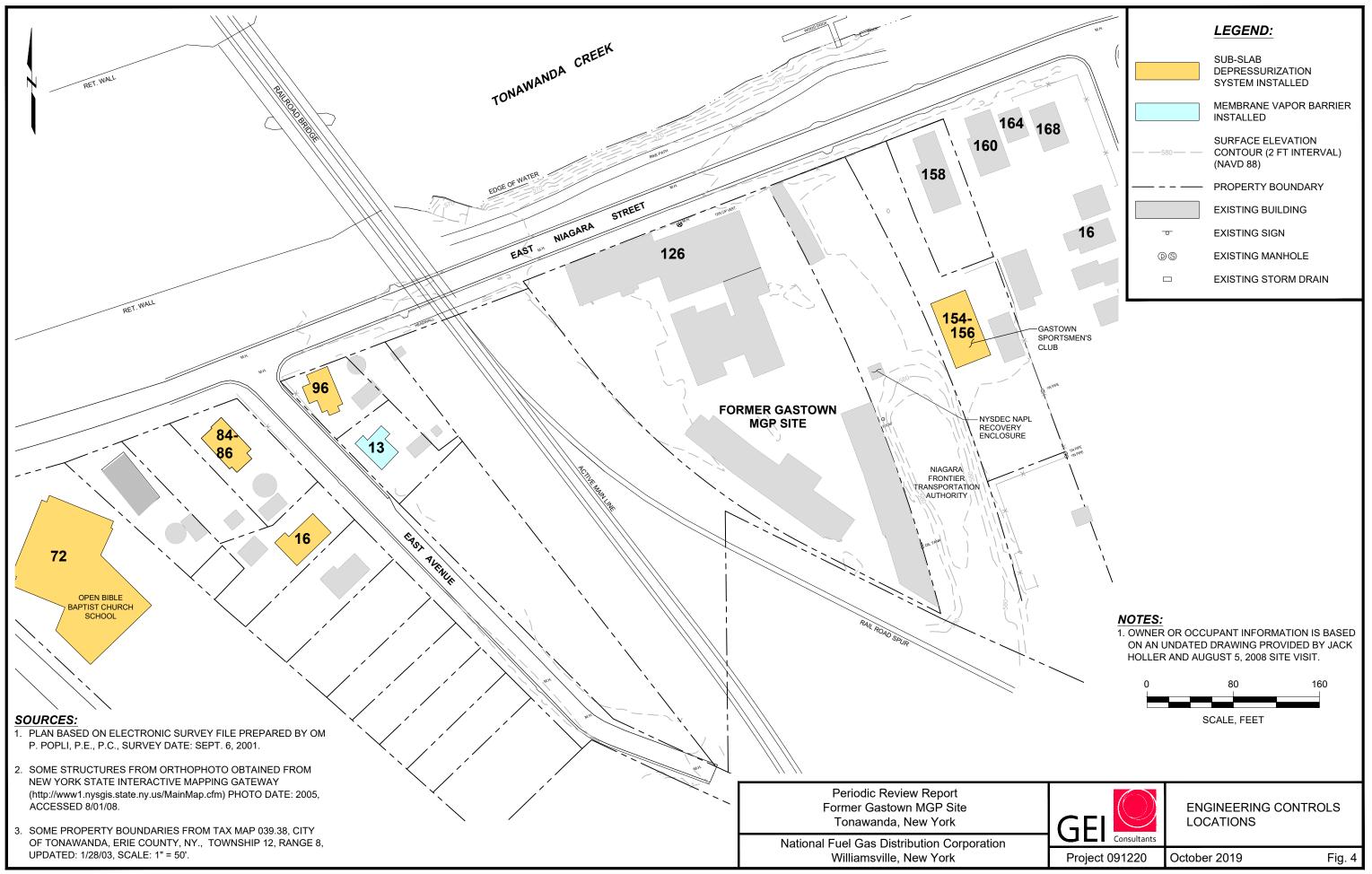


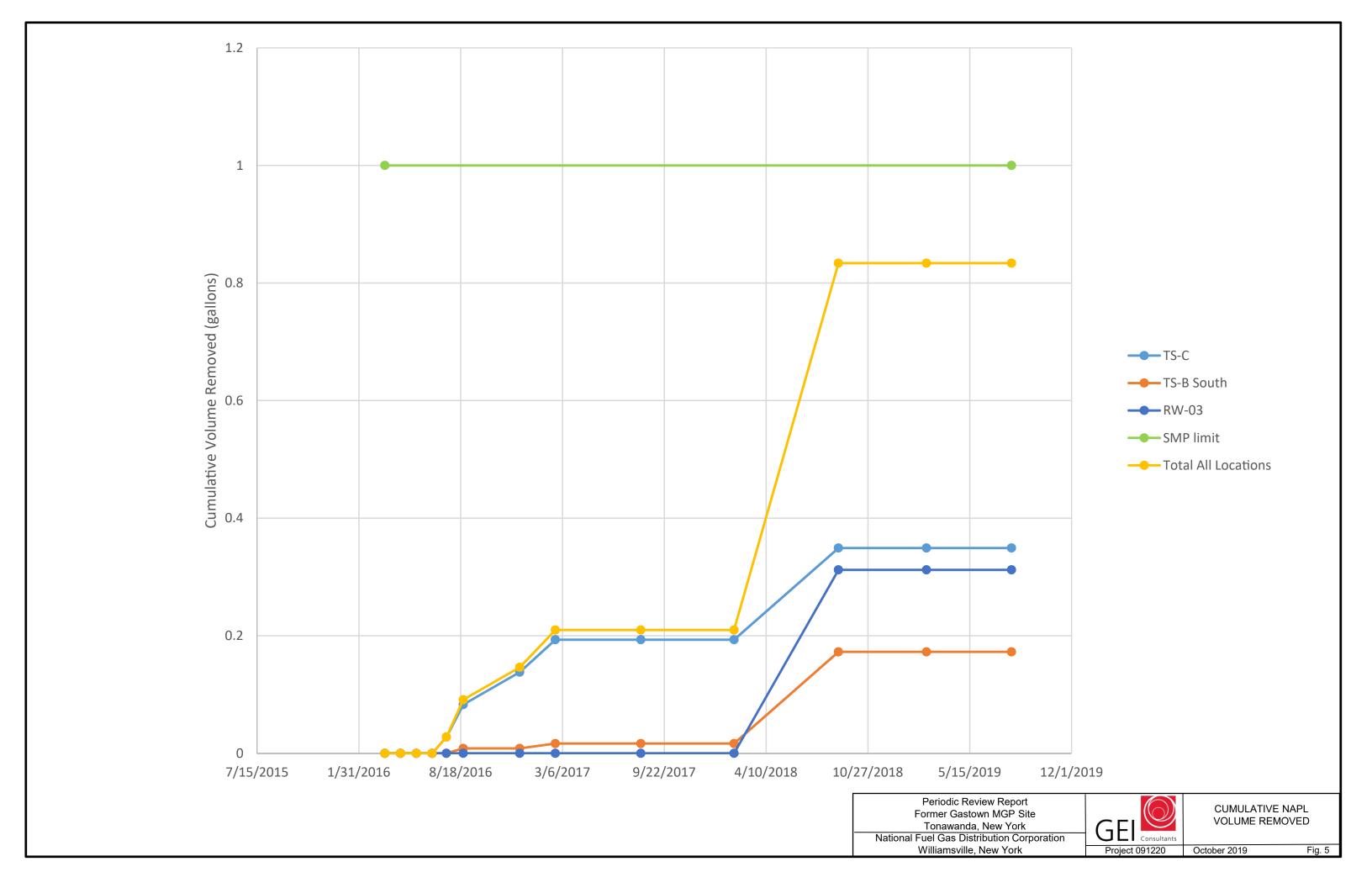
SITE LAYOUT MAP

Fig. 2

Project 091220 October 2019







# Appendix A

**2019 SMP Inspection Forms** 

### **SITE INSPECTION FORM**

## **Gastown Former Manufactured Gas Plant Site**

SITE INSPECTIO	ON DATE:	4-18-19	TIME OF AF	RRIVAL:	12:00 pm	1
			DE	PARTURE:	12:30 pm	)
WEATHER:	Partly clo	udy, 70 F				
National Fuel G	Gas Represe	entative(s):	Michael Cummings	- GEI Consu	ltants Inc.,	P.C.
INSPECTION TYP	PE:	<mark>A</mark> r	<mark>nnual Inspection</mark> or E	mergency I	nspection	
(if emergency inspection):	ndicate eve	nt that requ	ired an _			
Are the Instituti	onal Contro	ols in place,	performing properly,	, and remai	in effective	1?
Site Signage in	Place? Non	e required				'es / No / <mark>NA</mark>
_						
Does the Site co	omply with	NYSDEC-app	proved Site Managem	ent Plan?		<mark>Yes</mark> / No
	<b>.</b>					
			d since the last inspe	ction?		Yes / <mark>No</mark>
(Verify with Rea	al Estate an	d Survey De	partments)			
Are there any o	hanges to i	ntended site	use (restricted Resid	lential, Com	nmercial	Yes / <mark>No</mark>
Or Industrial w	hich would	affect the SN	MP or institutional co	ntrols?		
Is site used for	agricultural	purpose or	vegetable gardens?			Yes / <mark>No</mark>
						TES / INO
Is groundwater	· used as so	urce of nota	ole or process water	onsite		Yes / <mark>No</mark>
.5 bi Sanawatel	<u> </u>	a.cc or pota	old of process water	3/13/10		103/ 140
If yes to the above Yes/No	ove – does	water go thr	ough the necessary v	vater qualit	y treatmer	nt?

# SITE INSPECTION FORM Gastown Former Manufactured Gas Plant Site

Is there any evidence of the damage to solidified soil from frost and wave  Yes / No
Is there any evidence of the damage to solidified soil from frost and wave  Yes / No
Is there any evidence of the damage to solidified soil from frost and wave  Yes / No
Is there any evidence of the damage to solidified soil from frost and wave Yes / No
Are the Engineering Controls in place, performing properly, and remain effective?
Surface Cover Intact (i.e. no evidence of erosion, excavations)?  Yes / No
GENERAL SITE OBSERVATIONS:
Have there been any changes to the property since the last inspection? No.
(i.e. new equipment, residential buildings or facilities, changes in site topography, erosion, etc.)
NOTE:
Inspections should be made a minimum once a year and within 5 days of an emergency, such as a natural disaster or an unforeseen failure or damage to the building occurs.  Inspections will be conducted by National Fuel Gas (or their agent) and results reported to NYSDEC.
COMPLETED BY: Michael Cummings SIGNATURE:

### **SITE INSPECTION FORM**

## **Gastown Former Manufactured Gas Plant Site**

SITE INSPECTIO	N DATE:	10-23-19	TIME OF ARRIVAL:	4:00 pi	m
			DEPARTU	<b>RE</b> : 4:30 pi	m
WEATHER:	Partly clo	udy, 50F. we	st wind 30mph		
National Fuel G	as Repres	entative(s):	Michael Cummings- GEI Co	nsultants In	c., P.C.
INSPECTION TYP	PE:	<mark>Aı</mark>	<mark>nnual Inspection</mark> or Emergen	cy Inspectio	on
(if emergency in inspection):	ndicate eve	ent that requ	ired an		
Are the Institution	onal Contr	ols in place,	performing properly, and re	main effect	ive?
Site Signage in	Place? Nor	ne required			Yes / No / <mark>NA</mark>
Does the Site co	omply with	NYSDEC-app	proved Site Management Pla	n?	<mark>Yes</mark> / No
Has ownership	of the pro	perty change	d since the last inspection?		Yes / <mark>No</mark>
(Verify with Rea	al Estate ar	nd Survey De	partments)		
Are there any c	hanges to	intended site	use (restricted Residential, (	Commercial	Yes / <mark>No</mark>
Or Industrial wh	nich would	affect the SI	MP or institutional controls?		
Is site used for	agricultura	l purpose or	vegetable gardens?		Yes / <mark>No</mark>
					Tes / No
Is groundwater	used as so	ource of pota	ble or process water onsite		Yes / No
If yes to the abo Yes/No	ove – does	water go thr	ough the necessary water qu	uality treatm	nent?

# SITE INSPECTION FORM Gastown Former Manufactured Gas Plant Site

Is solidified material visible?		Yes / <mark>No</mark>
Is there any evidence of the damage to solidifie	ed soil from frost and wave	Yes / <mark>No</mark>
Are the Engineering Controls in place, performi	ng properly, and remain effective?	
Surface Cover Intact (i.e. no evidence of erosion	n, excavations)?	<mark>Yes</mark> / No
,	,	<u>,                                      </u>
The SSDS system at 80 East Niagara Street was	removed on July 14, 2017 at the	
request of the property owner.		
GENERAL SITE OBSERVATIONS:		
Have there been any changes to the property s	ince the last inspection? No.	
(i.e. new equipment, residential buildings or facetc.)	cilities, changes in site topography, e	erosion,
NOTE:		
Inspections should be made a minimum once a such as a natural disaster or an unforeseen fai Inspections will be conducted by National Fue NYSDEC.	lure or damage to the building occu	rs.
COMPLETED BY: Michael Cummings	SIGNATURE: MX 49	
		1

# Appendix B

2019 SSDS Inspection Forms

	OFNED	AL MONITORING	INFORMATION			
GEI Field		AL MONITORING				
Representative(s):	M. Cummings			96 East Niagara Stree	et, Bardo	
			Monitoring	15:00		
Date:	2/8/2019		Start Time: Monitoring		-	
Weather:	cloudy, 20F, winds gusting to 40n	mph.	End Time:	15:15		
					=	
Fan Type:	GP 501	(GP501 / HS	5000)			
	INSTRUME	ENTATION INFOR	MATION (if used	1)		
Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?	
PID (ppm)	NA			ppm Isobutylene Time:	Y / N Cal. Reading (ppm):	
Manometer				NA	NA NA	
		ASUREMENTS /				
Fan Running?	Sy	stem Status/Con	figuration Y	/ N		
Exterior Pipe Condition (c	racks, damage, etc.)?			/ fair / poor		
Interior Pipe Condition (cr	- '			/ fair / poor		
	enetrations (cracks, peeling, leaks, e	sto \2	good / fair / poor			
interior extraction point pe	erietrations (cracks, peeling, leaks, e	itC.) r	good	/ fair / poor		
Slab or Wall Cracks / Ope	enings That Impair System Performa	ince?	Y / N			
Vacuum Reading at U-Tu	be Manometer:		-3.0 inches of water column			
			•			
NOTES.						
NOTES: ppm = parts per million						
PID = photoionization dete	ector					
COMMENTS:						
System in good condition						
Reviewed by:						

	GENERAL	MONITORING II	NFORMATION		
GEI Field Representative(s):	M. Cummings	Address: 86 East Niagara St, Hockenberry			ockenberry
ntepresentative(s).		<del></del>	Monitoring	15:15	
Date:	2/8/2019	_	Monitoring		-
Weather:	cloudy, 20F, winds gusting to 40mph	<u> </u>	End Time:	15:30	
Troumor.	eleday, zer , milae gaeling te remp.	<u></u>			-
Fan Type:	HS2000	(GP501 / HS	5000)		
	INSTRUMEN	TATION INFORM	MATION (if used)		
Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	NA			ppm Isobutylene	Y / N
	IVA			Time:	Cal. Reading (ppm):
Manometer				NA	NA
	FIELD MEA	SUREMENTS / C	RSERVATIONS		
		em Status/Confi			
Fan Running?			Υ Υ	/ N	
Exterior Pipe Condition (	cracks, damage, etc.)?		good	/ fair / poor	
Interior Pipe Condition (d	racks, damage, etc.)?			/ fair / poor	
Interior extraction point p	enetrations (cracks, peeling, leaks, etc.)?		good	/ fair / poor	
Slab or Wall Cracks / Op	penings That Impair System Performance	?	Υ	/ <b>N</b>	
Vacuum Reading at U-To	ube Manometer:		5.0_ inches of water column		
and an experience					
NOTES:					
ppm = parts per million					
PID = photoionization de	tector				
COMMENTS:					
	3 days due to high water levels. Allowed over is not sealed. PID = 0.0 ppm	vacuum to equilib	rate before taking	readings. System ma	kes high pitch tone in frigid
weather. Sump pump co	over is not sealed. FID = 0.0 ppm				
Reviewed by:					

	GENERAL M	ONITORING IN	NFORMATION		
GEI Field Representative(s):	M. Cummings			16 East Ave, Fisher	
representative(s).		=	Monitoring Start Time:	14:50	
Date:	2/8/2019	_	Monitoring		-
Weather:	cloudy, 20F, winds gusting to 40mph.	<u>-</u>	End Time:	15:10	_
Fan Type:	H\$2000	(GP501 / HS	5000)		
	INSTRUMENTA	ATION INFORM	IATION (if used)		
Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	NA			ppm Isobutylene Time:	Y / N Cal. Reading (ppm):
Manometer				NA	NA
	FIELD MEACH	DEMENTO / O	DOEDVATIONS		
		Status/Config	BSERVATIONS		
Fan Running?	System	i Status/Confi	guration Y	/ N	
Exterior Pipe Condition (	cracks, damage, etc.)?		_	/ fair / poor	
Interior Pipe Condition (c				/ fair / poor	
Interior extraction point p	enetrations (cracks, peeling, leaks, etc.)?		good	/ fair / poor	
Slab or Wall Cracks / Op	enings That Impair System Performance?		Υ	/ <b>N</b>	
Vacuum Reading at U-Tu	ube Manometer:		_0.40 inch	es of water column	
NOTES:					
ppm = parts per million PID = photoionization de	tector				
COMMENTS: System in good condition	n.				
Reviewed by:					

	GEN	IERAL MONITOR	RING INFORMA	TION	
GEI Field Representative(s):	M. Cummings		Address:	154 E. Niagara St, Sp	ortsmen's Club
Representative(s):		_	Monitoring		
		<u></u>	Start Time:		_
Date:	1/15/2019	<u> </u>	Monitoring		
Weather:	cloudy, 25F	_	End Time:		=
Fan Type:	HS5000	_(GP501 / HS5	5000)		
	INSTR	UMENTATION IN	NFORMATION (i	f used)	
Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	NA			ppm Isobutylene	Y / N
	101			Time:	Cal. Reading (ppm): NA
Manometer				NA	INA
	FIELD	MEASUREMEN	ITS / OBSERVA	TIONS	
		System Status			
Fan Running?			Y	/ N	
•	(cracks, damage, etc.)?			/ fair / poor	
Interior Pipe Condition (	cracks, damage, etc.)?		good	/ fair / poor	
Interior extraction point	penetrations (cracks, peelin	g, leaks, etc.)?	good	/ fair / poor	
Slab or Wall Cracks / O	penings That Impair System	Performance?	Υ	/ <b>N</b>	
Vacuum Reading at U-1	Tube Manometer:		1.4_ inch	es of water column	
NOTES:					
ppm = parts per million PID = photoionization de	otactor				
FID = priotoloriization u	Elector				
COMMENTS:					
	on. Inspection performed in	conjuntion with s	ump pump repla	cement.	
Cystem in good condition	m. mopeodon penomica in	conjuntion with 5	amp pamp repla	oomont.	
Reviewed by:					

#### Open Bible Baptist School

GENERAL MONITORING INFORMATION				
GEI Field Representative(s):	M. Cummings	Monitoring Start Time:	13:45	
		Monitoring End Time:	14:45	
Date:	2/8/2019			
Weather:	cloudy, 20F, winds gusting to 40mph.			

	INSTRUMENTATION INFORMATION (if used)						
	Instrument	Manufacturer	Model	Calibrated To:	Successful Calibration?		
	PID (ppm)	NA		ppm Isobutylene Time:	Y / N Cal. Reading (ppm):		
NA	Manometer (in. H <sub>2</sub> O)			N/A	Zeroed before each reading? Y / N		
NA	Anemomaster (CFM)			N/A	N/A		

System Flowrate (CFM)

		FIELD MEASURE	MENTS & OBSERVA	TIONS			
System Status/	Configuration		Pressure Mea	surements		System	Flow Rate Data
Blower Enclosure Secure?	Y / N		Monitoring Point	Pressure (in. H <sub>2</sub> O)		Velocity (ft/min)	System Flow
Blower On?	Y / N		North Header	-7.0		NA	
Auto Dialer On?	Y / N	*	South Header	-6.5			
Auto Dialer Tested?	Y / N	NA	East Header	-1.0			
Hour Meter Reading:	NA		Combined System Influent	-8.0			
					_		
Exterior Pipe Condition (cra	acks, damage, etc.)?		good / fa	ir / poor			
Interior Pipe Condition (cra	cks, damage, etc.)?		good / fa	ir / poor			
Interior extraction point per	netrations (cracks, peeling	ı, leaks, etc.)?	good / fa	ir / poor			

ABBREVIATIONS	COMMENTS
ppm = parts per million	System in good condition. OBBS property is vacant and listed for sale. System was off at the time of inspection. Auto dialer called and notified
CFM = cubic feet per minute	J. Sandorf and M. Cummings via voicemail on 2/2/19. Upon inspection, the circuit breaker in the roof-top shed was tripped. The breaker was reset and the system was operating correctly at the end of inspection.
PID = photoionization detector	
ft/min = feet per minute	
N/A = Not Applicable	
NM = Not Measured	
VOC = volatile organic compound	
in. H <sub>2</sub> O = inches of water column	

Reviewed By:	