



**Groundwater  
& Environmental Services, Inc.**

158 Sonwil Drive • Cheektowaga, New York 14225 • TEL (800) 287-7857 • Fax (716) 706-0078

November 29, 2011

Mr. Jason Pelton  
Project Manager  
Division of Environmental Remediation  
12<sup>th</sup> Floor, 625 Broadway  
Albany, New York 12233-7017

**Re: Interim Remedial Measure -  
Former Drum Storage Area Remedial Action Workplan  
Barthelmes Manufacturing Site  
15 Cairn Street  
Rochester, New York  
NYSDEC Site Number 828122**

Dear Mr. Pelton:

Please find the enclosed *Interim Remedial Measure (IRM) Excavation Workplan*, which was prepared by Groundwater & Environmental Services, Inc. (GES) for New York State Department of Environmental Conservation (NYDEC). This workplan will outline the scope of work for a remedial excavation to be conducted to address impacted soil in the former drum storage area at Barthelmes Manufacturing Site, as identified in previous subsurface investigations. This scope of work is tentatively scheduled to be conducted in early December 2011.

If you have any questions, please contact GES at (800) 287-7857 at your convenience.

Sincerely,

**GROUNDWATER & ENVIRONMENTAL SERVICES, INC.**

A handwritten signature in black ink, appearing to read 'Nicole A. Jarzyniecki'.

Nicole A. Jarzyniecki  
Staff Hydrogeologist

A handwritten signature in black ink, appearing to read 'Steven P. Leitten'.

Steven P. Leitten  
Senior Project Manager

Enclosure



**INTERIM REMEDIAL MEASURE -  
FORMER DRUM STORAGE AREA REMEDIAL ACTION WORKPLAN**

**BARTHELMES MANUFACTURING SITE  
15 CAIRN STREET  
ROCHESTER, NEW YORK  
NYSDEC SITE NUMBER 828122**

*Prepared for*

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION  
12<sup>TH</sup> FLOOR, 625 BROADWAY  
ALBANY, NEW YORK 12233-7017**

*Report Date*

November 29, 2011

*Prepared By:*

A handwritten signature in black ink, appearing to read 'Nicole A. Jarzyniecki', written over a horizontal line.

Nicole A. Jarzyniecki  
Staff Hydrogeologist

*Reviewed By:*

A handwritten signature in black ink, appearing to read 'Steven P. Leitten', written over a horizontal line.

Steven P. Leitten  
Senior Project Manager

**GROUNDWATER & ENVIRONMENTAL SERVICES, INC.  
158 Sonwil Drive  
Cheektowaga, New York 14225  
1-800-287-7857**



## **TABLE OF CONTENTS**

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<b>1.0 INTRODUCTION .....</b>	<b>1</b>
<b>2.0 SITE SETTING/SURROUNDING PROPERTY USES .....</b>	<b>1</b>
<b>3.0 IMPLEMENTATION OF IRM EXCAVATION .....</b>	<b>1</b>
<b>4.0 EXCAVATION SAMPLING AND TESTING .....</b>	<b>3</b>
<b>5.0 PROJECT REPORTING .....</b>	<b>3</b>

## **FIGURES**

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Figure 1 – Site Map

Figure 2 – Proposed Area of Excavation Map

## **ATTACHMENT**

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Attachment A – Sample Daily Report Log



*Remedial Excavation Workplan  
Barthelmes Manufacturing Site  
Rochester, New York  
NYSDEC Site Number 828122*

## **1.0 INTRODUCTION**

The *Interim Remedial Measure (IRM) Former Drum Storage Area Remedial Action Workplan* presented herein, was prepared by Groundwater and Environmental Services, Inc. (GES) on behalf of New York State Department of Environmental Conservation (NYSDEC). This work plan is being prepared based on data provided in NYSDEC Callout #120321 on November 4, 2011.

In accordance with the scope of work as outlined in the callout referenced herein, GES will execute an excavation to remove approximately 900 tons of chlorinated volatile organic compound (CVOC) impacted soil from the area outlined in the attached figures. This scope of work is tentatively scheduled to begin in early December 2011 with completion by mid-December.

## **2.0 SITE SETTING/SURROUNDING PROPERTY USES**

The subject site is identified as the Barthelmes Manufacturing Site, located at 15 Cairn Street in Rochester, New York. The work area is located adjacent to the southeast corner of the main site building in the Former Drum Storage Area. A site map has been included as **Figure 1**.

## **3.0 IMPLEMENTATION OF IRM EXCAVATION**

The IRM action will proceed as follows:

- Work permits with the City of Rochester will be obtained, if applicable.
- A public utility mark-out will be conducted prior to excavation activities in order to positively identify any utilities in the vicinity of the excavation.
- GES will prepare a site specific health & safety plan (HASP). All work to be conducted will be performed in accordance with the HASP. This will include a community air monitoring plan (CAMP). GES will follow the generic CAMP that is provided in Appendix 1A of NYSDEC's *Division of Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation*.
- The subcontractor performing the IRM activities will excavate impacted soil using a track-mounted excavator with a bucket of greater than 1 cubic yard in volume.
- The remedial excavation is to be conducted in the approximate excavation area as shown in **Figure 2**. In general, the remedial excavation is anticipated to be triangular in shape, approximately 1,500 square feet in area, with a depth of 8 to 10 feet (ft) below ground surface (bgs) for a total of approximately 450 to 550 cubic yards. It is anticipated that approximately 900 tons of soil/fill material will be removed during the remedial excavation.



*Remedial Excavation Workplan  
Barthelmes Manufacturing Site  
Rochester, New York  
NYSDEC Site Number 828122*

- Proper side slopes and/or benching will be used along the side walls of the remedial excavation as per OSHA requirements. Benching/sloping will be implemented where it has been determined to be appropriate.
- GES will dispose of CVOC impacted soil at an approved off-site facility.
- In accordance with NYSDEC's call-out, GES will collect post-excavation analytical soil samples. The final limits of the excavation will be determined by NYSDEC (see section 4.0 below for additional field sampling/testing information). Upon completing the excavation as described, a demarcation barrier will be installed to delineate soil left in place from material used as backfill.
- In addition to the remedial excavation, GES will install one 6 inch (in) diameter polyvinyl chloride (PVC) injection well within the excavation area for use in later in-situ applications to address residual groundwater contamination. The well will consist of approximately 10 ft of riser with an elbow connecting to a horizontal slotted pipe which will run the length of the excavation bottom. This well will be installed prior to backfilling, and care will be taken during backfill activities to maintain the upright position of the well and to prevent damage to the well. An 8 in diameter flush mount bolt-down manway will be placed over the well. The well will be secured with a locking monitoring well j-plug. A 2 ft by 2 ft concrete pad will be constructed around the manway.
- The excavation will be backfilled using fill material as per requirements set forth in 6 NYCRR Part 375-6.7(d). The backfilled material will be compacted. Compaction testing will not be completed.
- One groundwater monitoring well (MW-5) will be decommissioned by grouting in place prior to excavation. This well is within the proposed excavation area.
- Daily reports and photographs will be submitted (see section 5.0 below for additional reporting information) during the course of the IRM activities.
- Following completion of the excavation, the excavation boundaries, sampling locations and nearby site features will be surveyed using a high precision GPS unit.
- Upon completion of the IRM activities, GES will submit an IRM Final Engineering Report, which will be stamped by a licensed professional engineer (see section 5.0 below for additional reporting information).
- The NYSDEC Department Project Manager will be notified at least one week in advance of initiating onsite activities.



*Remedial Excavation Workplan  
Barthelmes Manufacturing Site  
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NYSDEC Site Number 828122*

#### **4.0 EXCAVATION SAMPLING AND TESTING**

During soil removal, soil samples will be collected from the excavation in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (May 2010). As stated in Section 3.2.1, “Characterization sampling should be biased to the suspected location of greatest contamination” and section 5.4(b)5.ii(2), to achieve subsurface soil cleanup levels, “one sample from each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area” will be collected. Soil samples will be submitted to TestAmerica Laboratories (TA), National Environmental Laboratory Accreditation Conference (NELAC) Certification Number 10026, for analysis of volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Test Method 8260. Samples will be analyzed within a 24 hour turn around time.

#### **5.0 PROJECT REPORTING**

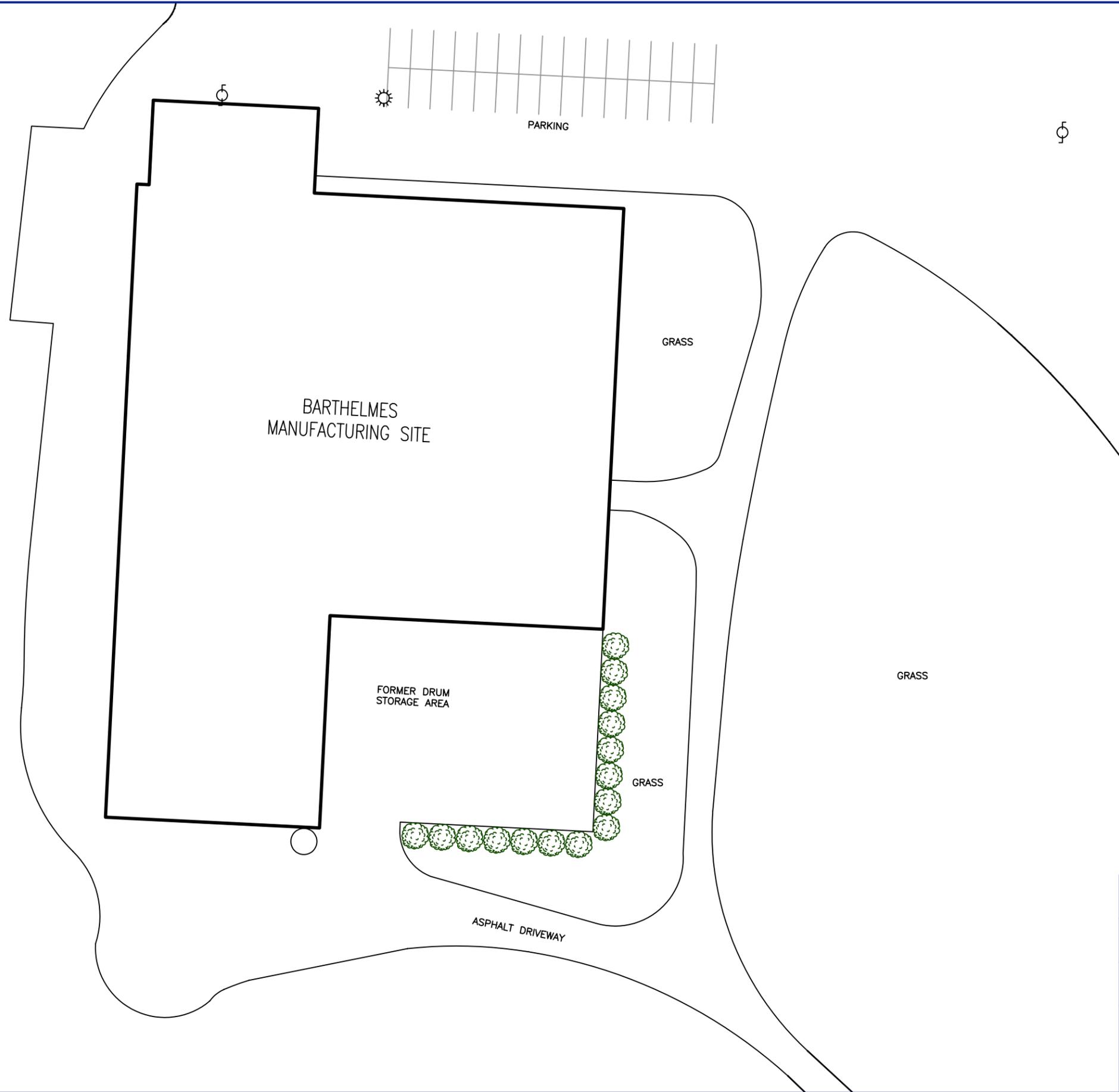
During the IRM activities, GES personnel will submit a Daily Report with photos. The Daily Report will document, but will not be limited to, the following: date, number of hours onsite, the day’s site activities, weather conditions (including temperature and wind direction), air monitoring results, samples collected, photo log, onsite personnel and visitors, waste/backfill tracking, and materials used. A sample Daily Report has been included as **Attachment A**.

Upon project completion an IRM Final Engineering Report will be prepared to document the IRM activities. The report will include figures of the excavated area, results of field observations, analytical results, soil disposal receipts, well installation logs, well decommissioning logs and proposal of future actions if warranted. Analytical data will be tabulated and compared to 6 NYCRR Part 375 Protection of Groundwater Restricted Use Soil Cleanup Objectives (SCOs) and the Unrestricted Use SCOs. The report will be reviewed and stamped by a licensed professional engineer. Laboratory analytical results will also be entered into the NYSDEC EQUIS database.

**FIGURES**

**LEGEND**

-  TREE
-  UTILITY POLE
-  LIGHT POLE



DRAFTED BY: B.C.S. (N.J.)	<b>SITE MAP</b>		
CHECKED BY:	<b>NYSDEC 15 CAIRN STREET ROCHESTER, NEW YORK</b>		
REVIEWED BY:	Groundwater & Environmental Services, Inc. 158 SONWIL DRIVE, CHEEKTOWAGA, NEW YORK 14225		
NORTH 	SCALE IN FEET	DATE	FIGURE
	 0 APPROXIMATE 50	11-18-11	1

**LEGEND**

-  TREE
-  UTILITY POLE
-  LIGHT POLE



DRAFTED BY: B.C.S. (N.J.)	<b>PROPOSED AREA OF EXCAVATION MAP</b>		
CHECKED BY:	<b>NYSDEC 15 CAIRN STREET ROCHESTER, NEW YORK</b>		
REVIEWED BY:			
NORTH 	Groundwater & Environmental Services, Inc. 158 SONWIL DRIVE, CHEEKTOWAGA, NEW YORK 14225		
	SCALE IN FEET  0 APPROXIMATE 50	DATE 11-21-11	FIGURE 2

**ATTACHMENT A**

**DAILY OBSERVATION REPORT**

**Days Onsite:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**NYSDEC**

Temperature: (F) (am) (pm)

**Division of Environmental Remediation**

Wind Direction: (am) (pm)

**Project Name - Barthelmes Manufacturing Site**

Weather: (am)

**NYSDEC Site # 828122**

(pm)

**Contract #**

Arrive at site (am)

Rochester, New York

Leave site: (pm)

**HEALTH & SAFETY:**

Are there any changes to the Health & Safety Plan?  
(If yes, list the deviation under items for concern)

Yes ( ) No ( )

Are monitoring results at acceptable levels?

Soil

Yes ( ) n/a ( ) \* No ( )

Waters

Yes ( ) n/a ( ) \* No ( )

Air

Yes ( ) n/a ( ) \* No ( )

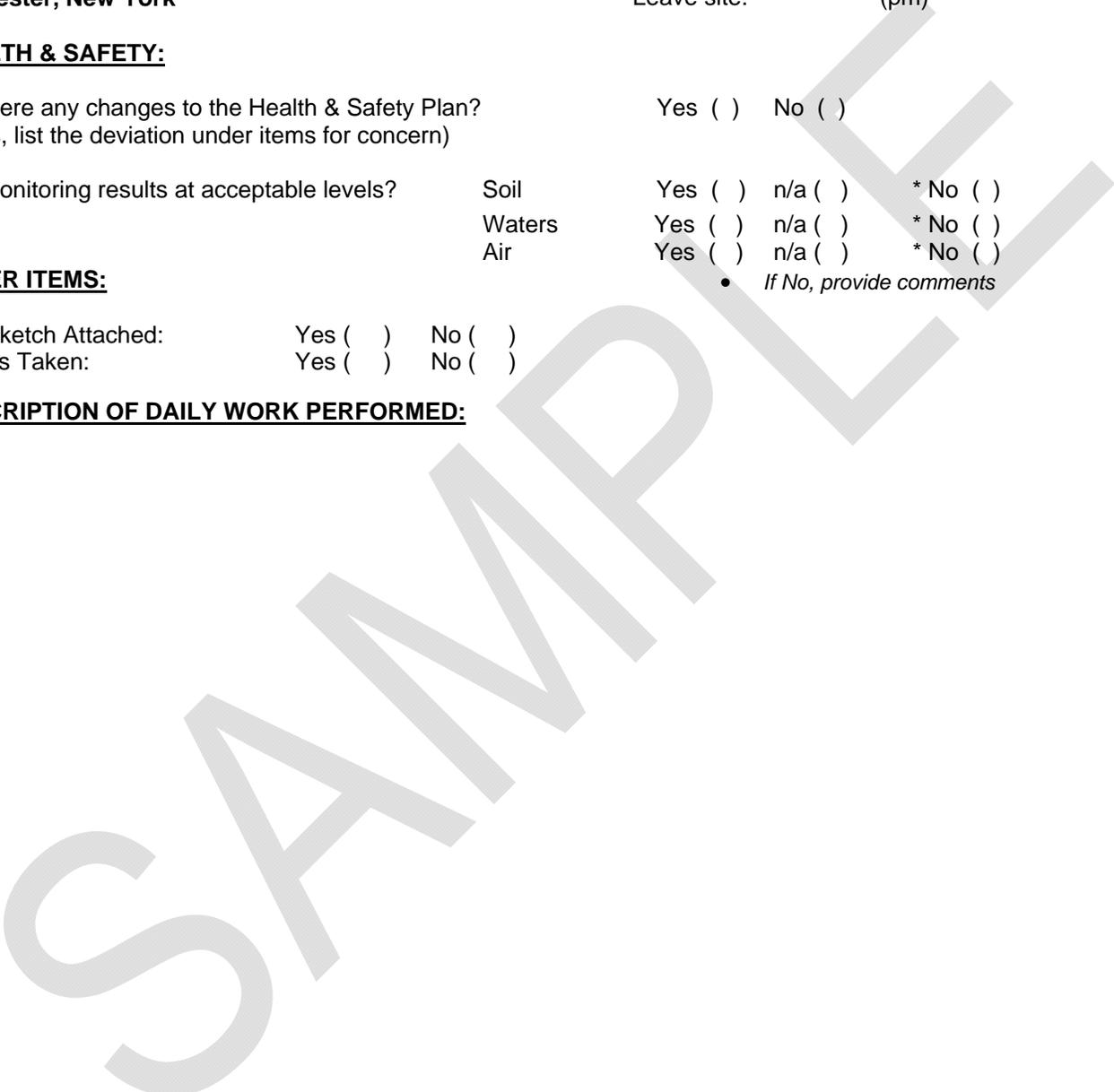
• If No, provide comments

**OTHER ITEMS:**

Site Sketch Attached: Yes ( ) No ( )

Photos Taken: Yes ( ) No ( )

**DESCRIPTION OF DAILY WORK PERFORMED:**



**DAILY OBSERVATION REPORT**

Days Onsite: \_\_\_\_\_ Date: \_\_\_\_\_

**DESCRIPTION OF DAILY WORK PERFORMED Cont'd:**

**Onsite Personnel and Visitors**

Name:	Company:	Onsite:	Offsite:	Reason Onsite:

**SAMPLING (Soil/Water/Air)**

**Contractor Sample ID:**

**DEC Sample ID:**

**Description:**

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Materials Used**

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

