

Dawn Greening
Remediation Manager

Schlumberger Technology Corporation
1807 Nightshade
San Antonio, TX 78260
Tel: (318) 393-6480

June 16, 2020

Megan Kuczka
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Ave.
Buffalo, New York 14203-2915

Re: Site Management Plan, Former Dowell Facility, Depew, New York (NYSDEC Site Number 00410 9)

Dear Ms Kuczka,

Please find enclosed one electronic copy (submitted via Federal Express) of the above-referenced document.

This revision to the Site Management Plan removes the groundwater monitoring requirements previously in place, per NYSDEC and NYDOH approval. In addition, while the previous version of the Site Management Plan defined the soil cover in The Declaration of Covenants and Restrictions (Appendix A) as an Institutional Control, the Site Management Plan revision terms it as an Engineering Control based on NYSDEC's definitions of an Engineering Control versus Institutional Control (physical versus non-physical control to eliminate potential exposure pathways to contamination). Although this change in terminology is incorporated into this Site Management Plan revision, the management of this soil cover control continues to be the same as it has been previously performed and reported in Periodic Review Reports.

If you have any questions or comments, please call me at (318) 393-6480. I can also be reached by e-mail at DGreening@slb.com.

Sincerely,



Dawn Greening
Remediation Manager

Enclosures

c: Maurice Moore/New York State Department of Environmental Conservation
Andrea Caprio/New York State Department of Environmental Conservation
Charlotte Bethoney/New York State Department of Health
Jim Strunk/The Dow Chemical Company
Monica Schneider/CH2M HILL Engineers, Inc.

Former Dowell Facility

ERIE COUNTY

DEPEW, NEW YORK

SITE MANAGEMENT PLAN

NYSDEC Site Number: V00410-9

VCA No. B9-0586-00-10

Prepared for:

Volunteers: Schlumberger Technology Corporation
and The Dow Chemical Company
3311 Walden Avenue, Depew, New York

Prepared by:



501 North Broadway,
Saint Louis, MO
Telephone: 1-314-335-5085

Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date
00	May 2011	Initial Submittal	Subsequently Approved
01	June 2020	Removed monitoring in accordance with approval of 2019 Periodic Review Report, updated to conform to the Site Management Plan template dated August 2015, and the terminology of the soil cover control from an Institutional Control to Engineering Control (no changes were made to the site management of this control) Changed NYSDEC's regional contact from Chad Staniszewski to Andrea Caprio and Dowell Schlumberger, Inc. and Schlumberger Technology Corporation's contact from Virgilio Cocianni to Dawn Greening	

JUNE 2020

CERTIFICATION STATEMENT

I, Key Rosebrook certify that I am currently a New York State-registered professional engineer as defined in 6 *New York Codes, Rules, and Regulations* (NYCRR) Part 375 and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10).

Key Rosebrook
2/13/2015

A circular professional seal for Key Rosebrook, a Licensed Professional Engineer in the State of New York. The seal features the state coat of arms in the center, surrounded by the text "STATE OF NEW YORK" at the top and "KEY ROSEBROOK" below it. The outer ring of the seal contains the text "LICENSED PROFESSIONAL ENGINEER" and the license number "089440-1".

TABLE OF CONTENTS

Former Dowell Facility
 ERIE COUNTY
 DEPEW, NEW YORK

SITE MANAGEMENT PLAN Table of Contents

Section	Description	Page
SITE MANAGEMENT PLAN		i
List of Acronyms		v
1	Introduction.....	1-1
1.1	General.....	1-1
1.2	Revisions.....	1-2
1.3	Notifications.....	1-2
2	Summary of Previous Investigations and Remedial Actions	2-1
2.1	Site Location and Description.....	2-2
2.2	Physical Setting.....	2-2
2.2.1	Land Use.....	2-2
2.2.2	Geology.....	2-2
2.2.3	Hydrogeology	2-3
2.3	Investigation and Remedial History.....	2-4
2.4	Remedial Action Objectives	2-5
2.4.1	Groundwater	2-5
2.4.2	Soil.....	2-5
2.5	Remaining Contamination	2-6
2.5.1	Soils	2-6
2.5.2	Groundwater	2-6
2.5.3	Soil Vapor.....	2-7
3	Institutional and engineering Controls Plan	3-1
3.1	General.....	3-1
3.2	Institutional Controls	3-1
3.3	Engineering Controls	3-3
3.3.1	Soil Cover.....	3-3
4	Inspection-Plan	4-1
4.1	General.....	4-1
4.2	Site-wide Inspection	4-1
5	Operation and maintenance plan	5-1
5.1	General.....	5-1
6	Periodic Assessments/Evaluations.....	6-1
6.1	Climate Change Vulnerability Assessment	6-1
6.2	Green Remediation Evaluation	6-2
6.2.1	Frequency of Other Periodic Activities	6-2

7	Reporting Requirements	7-1
7.1	Site Management Reports	7-1
7.2	Periodic Review Report	7-2
	7.2.1 Certification of Institutional and Engineering Controls.....	7-3
7.3	Corrective Measures Work Plan	7-4
8	References.....	8-1

List of Tables

1-1	Notifications
2-1	Groundwater Elevation Measurements
2-2	Chronology of Site Investigations and Remedial Actions
2-3	Post-Remedy Soil Sampling Result
2-4	Post-Remedy Groundwater Sampling Results
5-1	Inspection Reporting Summary/Schedule

List of Figures

1-1	Site Location Map
1-2	Site Map
2-1	Groundwater Contour Map – June 2017
2-2	2004 Soil Excavation Remedial Action
2-3	Former Features of 2016 Groundwater Thermal Treatment Remedial Action
2-4	Remaining Soil Contamination - Confirmation Sample Locations
2-5	Remaining Soil Contamination – Confirmation Sample Location (Stockpile Reuse)
2-6	Post-Remedy Groundwater Sampling Locations

List of Appendices

A	Metes and Bounds
B	Declaration of Covenants and Restrictions
C	List of Site Contacts
D	Remedial Party/ Owner Responsibilities
E	Boring Logs
F	Excavation Work Plan
G	Site Management Forms

LIST OF ACRONYMS

µg/kg	micrograms per kilogram
CH2M	CH2M HILL Engineers, Inc.
DER	Division of Environmental Remediation
Dow	The Dow Chemical Company
EC	Engineering Control
ECL	Environmental Conservation Law
EWP	Excavation Work Plan
FER	Final Engineering Report
IC	Institutional Control
ISTT	in situ thermal treatment
NYCRR	<i>New York Codes, Rules, and Regulations</i>
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	Operations and Maintenance
ppm	parts per million
PRR	Periodic Review Report
RA	remedial action
RAO	remedial action objective
SCG	Standards, Criteria, and Guidelines
SCO	Soil Cleanup Objective
Site	Former Dowell Facility
SMP	Site Management Plan
SVI	Soil Vapor Intrusion
URS	URS Corporation
Volunteers	Schlumberger Technology Corporation, The Dow Chemical Company and Dowell Schlumberger, Inc
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program
VOC	volatile organic compound

ES EXECUTIVE SUMMARY

On behalf of Schlumberger Technology Corporation and The Dow Chemical Company (Dow), CH2M HILL Engineers, Inc. (CH2M) has prepared this Site Management Plan (SMP) for the Former Dowell Facility (Site) in the Village of Depew, New York. The Site is managed under the Voluntary Cleanup Program (VCP) administered by the New York State Department of Environmental Conservation (NYSDEC) and was remediated in accordance with the Voluntary Cleanup Agreement (VCA), No. B9-0586-00-10, executed on February 26, 2001. The following provides a brief summary of the controls implemented for the Site, as well as the inspections, maintenance and reporting activities required by this Site Management Plan (SMP):

Site Identification: VCP Site No. V-00410-9, known as the Former Dowell Facility, is located at 3311-3313 Walden Avenue in the Village of Depew, New York

<p>Engineering Controls:</p>	<p>Unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State’s citizens, hereinafter referred to as “the Relevant Agency,” is first obtained, there shall be no construction, use or occupancy of the Property that results in the disturbance or excavation of the Property, which threatens the integrity of the soil cover, or which results in unacceptable human exposure to contaminated soils.</p>
<p>Institutional Controls:</p>	<p>The property subject to the Declaration of Covenants and Restrictions, is as shown on the map attached to the declaration as Appendix B and made a part hereof and consists of the property described in the deed attached hereto at Appendix A.</p> <p>The owner of the Property shall be responsible for the implementation of the Operation and Maintenance Plan, as stipulated in Section 7.0 – Operation and Maintenance Plan located on Page 7-1 of the Remedial Action Report, except for no further groundwater monitoring as approved by NYSDEC in its approval of the PRR (July 7, 2018 to July 7, 2019), for the Former Dowell facility 3311-3315 Walden Avenue, Depew, New York, Dated July 2004, authored by URS Corporation or implement any future modifications to the Operation and Maintenance Plan after obtaining written approval of the Relevant Agency.</p> <p>The owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Relevant Agency.</p>

	<p>The owner of the Property shall continue in full force and effect, the prohibition against uses other than restricted commercial and/or industrial uses, and shall assure that any requirements stipulated in the Operation and Maintenance Plan, remains as institutional and engineering controls required under the Agreement, and shall continue to implement and annually report on the status, results and effectiveness of the operation, monitoring and maintenance requirements to the Relevant Agency unless the owner first obtains permission to discontinue such controls from the Relevant Agency.</p>
	<p>The Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner, and its successors and assigns, consents to enforcement by the Relevant Agency of the prohibitions and restrictions that Paragraph X of the Agreement requires to be recorded, and hereby covenants not to contest the authority of the Relevant Agency to seek enforcement.</p>
	<p>Any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to the Declaration of Covenants and Restrictions.</p>
<p>Inspections:</p>	<p>Frequency:</p>
<p>1. Cover inspection</p>	<p>Annually</p>
<p>2. Site-Wide Inspections</p>	<p>Annually</p>
<p>Maintenance:</p>	<p>As needed</p>
<p>Reporting:</p>	
<p>1. Site-wide Inspections</p>	<p>Annually</p>
<p>2. Certifications/PRR</p>	<p>Annually</p>

Further descriptions of the above requirements are provided in detail in the subsequent sections of this SMP.

1. INTRODUCTION

1.1 General

This Site Management Plan (SMP) is a required element of the remedial program for the Former Dowell Facility located in the Village of Depew, New York (hereinafter referred to as the “Site”; See Figure 1-1). The Site is currently in the New York State (NYS) Voluntary Cleanup Program (VCP), Site No. V00410-9, which is administered by the NYSDEC.

Dowell, a Division of Schlumberger Technology Corporation, The Dow Chemical Company (Dow), and Dowell Schlumberger Incorporated (the Volunteers) entered into a Voluntary Cleanup Agreement (VCA) on February 26, 2001 with the NYSDEC to remediate the Site. A figure showing the Site location and boundaries of this Site is provided on Figure 1-1. The boundaries of the Site are more fully described in the metes and bounds site description that is provided in Appendix A. Appendix B contains the Declaration of Covenants and Restrictions.

After completion of the remedial work, some contamination remains at this Site, which is hereafter referred to as “remaining contamination.” Institutional and Engineering Controls (ICs and ECs) have been incorporated into the site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. A Declaration of Covenants and Restrictions granted to the NYSDEC, and recorded with the Erie County Clerk, requires compliance with this SMP and all ECs and ICs placed on the Site.

This SMP was prepared to manage remaining contamination at the Site until the Declaration of Covenants and Restrictions is extinguished in accordance with Environmental Conservation Law (ECL) Article 71, Title 36. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Declaration of Covenants and Restrictions and the grantor’s successors and assignees. This SMP may only be revised with the approval of the NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Declaration of Covenants and Restrictions. Failure to properly implement the SMP is a violation of the Declaration of Covenants and Restrictions, which is grounds for revocation of the Certificate of Completion (COC), release or closure letter.

- Failure to comply with this SMP is also a violation of ECL, 6 *New York Codes, Rules, and Regulations* (NYCRR) Part 375 and the VCA (Index No. B9-0586-00-10; Site No. V00410-9) for the Site, and thereby subject to applicable penalties.

All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the Site is provided in Appendix C of this SMP. The responsibilities for implementing this SMP are detailed in Appendix D.

This SMP was prepared by CH2M HILL Engineers, Inc. (CH2M), on behalf of the Volunteers, in accordance with the requirements of the NYSDEC's Division of Environmental Remediation DER-10 (Technical Guidance for Site Investigation and Remediation), dated May 3, 2010, and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs and/or EC that are required by the Declaration of Covenants and Restrictions for the Site.

1.2 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. Revisions will be necessary upon, but not limited to, the following occurring: upgrades to the soil cover, post-remedial removal of contaminated sediment or soil, or other significant change to the site conditions. In accordance with the Declaration of Covenants and Restrictions for the Site, the NYSDEC will provide a notice of any approved changes to the SMP and append these notices to the SMP that is retained in its files.

1.3 Notifications

Notifications will be submitted by the property owner or its consultant to the NYSDEC, as needed, in accordance with the NYSDEC's DER-10 for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the VCA, 6 NYCRR Part 375, and/or the ECL.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan (EWP).
- Notice within 48-hours of any damage or defect to the EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.

- Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the VCA, and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

Table 1-1 includes contact information for the above notification. The information in this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix C.

2. SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

Dowell, a Division of Schlumberger Technology Corporation, Dow, and Dowell Schlumberger Incorporated (the Volunteers) entered into a VCA with the NYSDEC to remediate an approximately 1.8-acre property located in Depew, New York (Figures 1-1 and 1-2). This VCA required the Volunteers to investigate and remediate contaminated media at the Site. The boundaries of the Site are detailed in the metes and bounds site description contained in Appendix A.

After completion of the remedial action (RA) described in the RA Report (URS 2004), contamination remained in groundwater and soil. An SMP (URS 2011) was prepared in May 2011 in accordance with the requirements in the NYSDEC's *Technical Guidance for Site Investigation and Remediation* (NYSDEC 2010), and the guidelines provided by the NYSDEC to manage the "remaining contamination" at the Site until the Declaration of Covenants and Restrictions (Appendix B) is extinguished in accordance with ECL Article 71, Title 36. Reports associated with the site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in NYS.

The Declaration of Covenants and Restrictions was executed and filed with the Erie County Clerk's Office on June 22, 2005, to restrict land use and prevent future exposure to any contamination remaining at the Site. The soil cover engineering control (EC) was installed as part of the Site remedy.

In accordance with the NYSDEC's October 2, 2018 approval of the PRR (July 7, 2017 through July 7, 2018) (CH2M 2018), decommissioning of groundwater monitoring wells MW-01, MW-02, and MW-04 and 13 piezometers was completed in April 2019. In accordance with the NYSDEC's January 6, 2020 approval letter of the PRR (July 7, 2018 through July 7, 2019) (CH2M 2019), decommissioning of the remaining onsite groundwater monitoring wells was completed in January 2020.

This SMP reflects completion of the 2016 in situ thermal treatment (ISTT) RA, which addressed residual groundwater contamination at the Site, and eliminates monitoring requirements and incorporates changes to reporting requirements that are consistent with the recommendations documented in the PRR (July 7, 2018 through July 7, 2019) and approved by the NYSDEC in a letter dated January 6, 2020.

While the 2011 SMP identified the soil cover as an IC, this SMP is defining it moving forward as an EC. However, this redefinition does not bring into question how this control was managed in the past or will be in the future, because of the purpose of the control will continue to be the same. Based on the way the NYSDEC defines IC and EC in their glossary (NYSDEC 2020) (non-physical vs. physical), EC terminology and signature requirements around it will be followed (as they were in the past).

2.1 Site Location and Description

The Site is located in the Village of Depew, Erie County, New York, (Figure 1-1) and is identified as Section 104.09 Block 1 and Lots 14 and 15 on the Erie County Tax Map (Appendix A). The Site is an approximately 1.8-acre area and is bounded by Walden Avenue to the north, the CSX Transportation Railroad to the south and east, and a mattress manufacturing facility owned by L & P Polyester Fibers LLC (Fibrix) to the west (see Figure 1-2 – Site Map). The boundaries of the Site are more fully described in Appendix B – Declaration of Covenants and Restrictions. The owner of the site parcels at the time of issuance of this SMP is Dowell Schlumberger, Inc.

2.2 Physical Setting

2.2.1 Land Use

The Site has no buildings or structures, and the ground surface consists of gravel and grass with scattered small- to medium-sized trees. There is a 6-foot-high chain-linked fence along the perimeter of the Site with a locked entrance gate along Walden Avenue. The Site is zoned as mixed industrial/commercial and is currently vacant. There are currently no Site occupants.

The properties adjoining the Site primarily include industrial, commercial, and residential properties. The properties immediately north of the Site include a residential neighborhood and an abandoned recycling facility (EnviroSense Corporation); the properties immediately south and east of the Site include a CSX Transportation railroad yard; the properties immediately east of the Site include a lumber yard and supply store (84 Lumber); and the properties immediately west of the Site include a mattress manufacturer (Fibrix, previously known as Buffalo Batt and Felt).

2.2.2 Geology

Surface soils consist of a fill layer composed of poorly sorted sands, silts, clay, gravel, and cinders that are approximately 0 to 4 feet thick. Underlying the fill layer is a regional glacial till deposit

approximately 25 feet thick. The till is composed of unsorted clay, silt, fine sand, and fine to coarse gravel that exhibits low permeability. Subtle lithologic variations in the glacial till with depth indicate that two subunits, which previously have been identified in historical reports as the upper and lower units, are present within the till. The upper till is composed of unsorted silty clays and clayey silts that are light brown to brown in color, moist to wet, stiff to very stiff, slight to moderately plastic, and contain little to trace fine-grained sands and subangular to sub-rounded glacial erratics (that is, pebbles and cobbles). The upper till transitions to the lower till at a depth of approximately 18 to 20 feet below ground surface.

Similar to the upper till, the lower till is also composed of unsorted silty clays and clayey silts; however, unlike the upper till, the lower till is dark brown to dark grey in color, damp, stiff, slightly plastic, and contains a higher percentage of embedded subangular to sub-rounded glacial erratics with depth. Underlying the till is the Marcellus and Skaneateles Shale formations (Geraghty & Miller 1990). These rock formations are present throughout the southern half of the Erie-Niagara Basin and locally contain thin interbedded limestones. The Shale formations typically produce small quantities of groundwater ranging from 10 to 15 gallons per minute. The overlying glacial till deposit is an insignificant source of groundwater for the area.

A geologic cross section was not developed in the course of the Site Investigations and RAs performed at the site. Site-specific boring logs are provided in Appendix E and were recorded between 1998 and 2015. Additional logs associated with the 2016 ISTT RA is included with the Final Engineering Report (FER) submitted to the NYSDEC along with this SMP.

2.2.3 Hydrogeology

Previous site investigation reports (Geraghty & Miller 1990; URS 2003) identified two independent groundwater units (defined as the upper and lower till units). The upper till unit is unconfined groundwater present in the fill material and upper till, and the lower till unit is confined groundwater in the lower till and upper bedrock. Flow in the upper, unconfined unit is to the north-northwest, whereas flow in the deeper, confined lower till/bedrock unit is to the west-northwest.

In situ hydraulic conductivity testing was performed on selected monitoring wells during previous site investigations to evaluate the hydraulic properties of the upper and lower till units. With the exception of MW-05, which has since been abandoned, the slug test data presented a range of hydraulic conductivities that are representative of the clayey till unit that overlies the bedrock across the site. The average hydraulic conductivity of the glacial till deposit at the time of the investigation was approximately 1.18×10^{-5} centimeters per second (URS 2003).

A groundwater contour map is shown in Figure 2-1 for the June 2017 monitoring event (most recent event where most monitoring wells were measured). Groundwater elevation data is provided in Table 2-1.

In accordance with the NYSDEC's approval of the PRR (July 7, 2017 through July 7, 2018) (CH2M 2018), decommissioning of onsite groundwater monitoring wells and piezometers (MW-01, MW-02, MW-04, PZ-01S, PZ-01D, PZ-02S, PZ-03S, PZ-03D, PZ-04S, PZ-04D, PZ-05S, PZ-05D, PZ-07S, PZ-07D, PZ-08S, and PZ-09S) were completed in April 2019.

In accordance with the NYSDEC's approval of the PRR (July 7, 2018 through July 7, 2019) (CH2M 2019), decommissioning of remaining onsite groundwater monitoring wells was completed in January 2020.

Well decommissioning records are included in the FER (CH2M 2020).

2.3 Investigation and Remedial History

The following narrative provides a remedial history timeline and a brief summary of the available project records to document key investigative and remedial milestones for the Site. Full titles for each of the reports referenced below are provided in Section 8.0 - References.

Former activities at the Site included servicing industrial facilities and limited oilfield-related projects. Various industrial cleaning and oilfield-related chemicals were stored onsite and transferred into tank trucks for use at different job sites (URS 2004). A former railroad siding, which has been removed, traversed the site from east to west. Former onsite building structures included the following: a two-story office building, a chemical storage building, a one-story office and maintenance shop, an acid plant, a bulk cement plant, cement silos, an 8,000-gallon diesel aboveground storage tank, a 1,000-gallon gasoline underground storage tank with dispenser, a mud separator, an oil/water separator, and a hydrochloric acid aboveground storage tank (Figure 1-2). In the late 1980s, operations at the site were discontinued, and the facility was permanently closed. Building structures were razed during the 2003 to 2004 RA, and the site has been inactive since (URS 2011).

After permanent closure of the facility, a series of site investigations were performed to assess the nature and extent of contamination in the soil and/or groundwater associated with the site. Constituents of concern at the Site included various volatile organic compounds (VOCs), primarily:

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,2-Dichloroethene
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

Additionally, several RAs were also completed. Site investigations and RAs were performed with the NYSDEC approval. Table 2-2 presents a chronology of the site investigations and RAs. Figure 2-2 depicts the areas that underwent soil excavation during the 2004 RA, and Figure 2-3 illustrates the features of the 2016 ISTT RA. In-depth details for each site investigation and RA identified in Table 2-2 are provided in their respective the NYSDEC-approved documents.

2.4 Remedial Action Objectives

Remedial Action Objectives (RAOs) for the Site as listed in the Declaration of Covenants and Restrictions dated April, 29, 2005. RAOs are medium-specific goals that an RA is expected to meet to protect human health and the environment and to comply with the applicable or relevant and appropriate requirements. RAOs guide the formulation and evaluation of remedial alternatives. RAOs were based on commercial/industrial use of the site. As such, the following RAOs were created for groundwater and soil:

2.4.1 Groundwater

- Reduce VOC concentrations in onsite groundwater to below applicable standards, criteria, and guideline (SCG) values (New York State Division of Water Technical & Operational Guidance Series [TOGS] 1.1.1.) to enable the removal of the institutional controls that prohibit groundwater use without treatment and require long-term monitoring from the property deed.

2.4.2 Soil

- The numeric criteria used to evaluate remediation effectiveness in soil corresponds to the commercial/industrial SCG values.

2.5 Remaining Contamination

2.5.1 Soils

Three areas of the site were excavated during the 2004 RA (URS, 2004) to remove VOC-contaminated soil (Figures 2-2 and 2-4). These areas included the northwest corner of the previously demolished Acid Plant, the area along the former railroad spur between the former Chemical Storage Building and the Acid Plant, and the area east of the former Maintenance Shop between the round sump and MW-03 (Figure 1-2). These areas were excavated to a maximum depth of 15 feet, with a total of 5,000 cubic yards of excavated soils, of which 3,500 cubic yards were contaminated with VOCs and transported and disposed offsite at a permitted facility. Confirmatory samples were obtained from the sidewalls and floor of the excavated areas. In cases where the analytical data indicated that the total VOC concentration was over 10 parts per million (ppm), the area was re-excavated, and an additional sample collected for analysis. This process was repeated until the total VOC concentration was under 10 ppm.

The results presented in Figure 2-4 show one bottom confirmation sample location, 0+83-20S, with a total VOC concentration of 27 ppm, above the 10 ppm screening threshold. As illustrated in Figure 2-5, with the exception of sample CSP3-C, none of the surface stockpile soil samples exceeded the unrestricted or residential use Soil Cleanup Objective (SCO) for trichloroethene of 0.47 and 10 ppm, respectively. None of the soil confirmatory samples had VOC concentrations that exceeded the SCOs for restricted commercial uses. Table 2-3 presents SCOs for the key VOCs present at the Site.

ISTT RA activities conducted from September 2015 to December 2016, significantly reduced the residual VOC concentrations in soil and groundwater. ISTT performance confirmation sampling was performed in August and October 2016. Table 2-3 summarize the results of all soil samples collected at the site during and after completion of the 2016 ISTT remedial action. Soil VOC concentrations from the ISTT RA were below the commercial SCG values.

2.5.2 Groundwater

Groundwater containing residual VOC concentrations greater than applicable SCG values was remediated during the 2016 ISTT RA. Post-ISTT groundwater confirmation sampling results indicate VOC concentrations are at or less than their respective SCG values and/or are less than laboratory detection limits (CH2M 2019a). Because onsite groundwater no longer exhibits VOC

concentrations that exceed their applicable SCG values, no additional groundwater monitoring is required to ensure human health protection and compliance with the ICs.

Table 2-4 summarizes the results of all samples of groundwater collected after completion of the 2016 ISTT remedial action. Figure 2-6 shows the locations of the groundwater samples referenced in Table 2-4.

2.5.3 Soil Vapor

Prior to the construction of any enclosed structures on the site, a soil vapor intrusion (SVI) evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, an SVI mitigation system may be installed as an element of a future building foundation without first conducting an investigation.

Before conducting an SVI evaluation or installing an SVI mitigation system, a work plan will be developed and submitted to the NYSDEC and the New York State Department of Health (NYSDOH) for approval. This work plan will be developed in accordance with the most recent NYSDOH “Guidance for Evaluating Vapor Intrusion in the State of New York.” Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary (unvalidated) SVI sampling data will be forwarded to the NYSDEC and the NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation. SVI sampling results, evaluations, and follow-up actions will also be summarized in the next PRR.

3. INSTITUTIONAL AND ENGINEERING CONTROLS PLAN

3.1 General

Since remaining soil contamination exists at the Site, ICs and ECs are required to protect human health and the environment. This IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the Site. The IC/EC Plan is one component of the SMP and is subject to revision by the NYSDEC.

This plan provides:

- A description of all IC/ECs on the Site
- The basic implementation and intended role of each IC/EC
- A description of the key components of the ICs set forth in the Declaration of Covenants and Restrictions
- A description of the controls to be evaluated during each required inspection and periodic review
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the EWP (as provided in Appendix F) for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the Site; and
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the site remedy, as determined by the NYSDEC

Any intrusive work must be conducted in accordance with procedures defined in the EWP, and an applicable Health and Safety Plan, Community Air Monitoring Plan, and Quality Assurance Project Plan should be prepared for the planned activities and approved by the NYSDEC.

3.2 Institutional Controls

A series of ICs is required by the Declaration of Covenants and Restrictions to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination, and (3) limit the use and development of the site to restricted commercial and/or industrial uses only. Adherence to these ICs on the Site is required by the Declaration of Covenants and Restrictions and will be implemented under this SMP. ICs identified in the Declaration of Covenants and Restrictions

may not be discontinued without an amendment to or extinguishment of the Declaration of Covenants and Restrictions. The IC boundaries encompass the entire Site and are shown on Figure 1-2. They are also shown in the metes and bounds provided in Appendix A. These ICs are the following:

- The property may be used for restricted commercial and/or industrial use.
- All ECs must be maintained as specified in this SMP.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by NYSDOH or the Erie Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- The owner of the property shall be responsible for implementation of the O&M Plan as stipulated in Section 7.0 – O&M Plan located on page 7-1 of the *Remedial Action Report for the Former Dowell Facility 3311-3315 Walden Avenue, Depew, New York* (URS Corporation 2004), except for no further groundwater monitoring as approved by the NYSDEC in its approval of the PRR (July 7, 2018 to July 7, 2019), or implement any future modifications to the O&M Plan after obtaining written approval of the Relevant Agency.
- The owner of the property shall continue in force and effect, the prohibition against uses other than restricted commercial and/or industrial uses, and shall assure that any requirements stipulated in the O&M Plan remain as institutional and engineering controls required under the Agreement, and shall continue to implement and annually report on the inspection requirements to the Relevant Agency unless the owner first obtains permission to discontinue such controls from the Relevant Agency.
- The Declaration is and shall be deemed a covenant that shall run with the land, shall be binding upon all future owners of the property, and shall provide that the owner and its successors and assigns consent to enforcement by the Relevant Agency of the prohibitions and restrictions that Paragraph X of the Agreement requires to be recorded, and hereby covenants not to contest the authority of the Relevant Agency to seek enforcement.

- Any deed of conveyance of the property, or any portion thereof, shall recite, unless the Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to the Declaration of Covenants and Restrictions.
- Information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP.
- There shall be no construction, use, or occupancy of the property that results in the disturbance or excavation of the property which threatens the integrity of the soil cover, or which results in unacceptable human exposure to contaminated soils. All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP and approved (written documentation) by the NYSDEC.
- Maintenance, inspection, and reporting of any physical component of the remedy (e.g. the ECs) shall be performed as defined in this SMP.
- Access to the site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Declaration of Covenants and Restrictions.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted in the metes and bounds provided in Appendix A, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the Site are prohibited.

3.3 Engineering Controls

3.3.1 Soil Cover

Exposure to any remaining contamination at the site is prevented by a soil cover placed over the site. This soil cover is comprised of a minimum of 12 inches of native soil or crusher run stone. The location of the soil cover, which is the Site boundary, as described in the metes and bounds site description in Appendix A. The EWP provided in Appendix F outlines the procedures required to be implemented in the event the soil cover is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection of this cover are provided in the Inspection Plan included in Section 4.0 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the

procedures defined in a Health and Safety Plan and associated Community Air Monitoring Plan that will be prepared for the site and provided as an attachment to the EWP.

3.3.3.1 – Soil Cover

The soil cover is a permanent control and the quality and integrity of this soil cover will be inspected at defined, regular intervals in accordance with this SMP in perpetuity.

4. INSPECTION-PLAN

4.1 General

This Inspection Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Inspection Plan may only be revised with the approval of the NYSDEC.

This Inspection Plan describes the methods to be used for:

- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment;

To adequately address the issue, this Inspection Plan provides information on:

- Annual inspection and periodic certification.
- Reporting requirements are provided in Section 7.0 of this SMP.

4.2 Site-wide Inspection

Site-wide inspections will be performed once per year. Modification to the frequency or duration of the inspections will require approval from the NYSDEC. Site-wide inspections will also be performed after all severe weather conditions that may affect the EC. During these inspections, an inspection form will be completed as provided in Appendix G – Site Management Forms.

The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of the EC;
- General site conditions at the time of the inspection;
- Confirm that site records are up to date.

A comprehensive site-wide inspection will be conducted and documented according to the SMP schedule, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether EC continues to perform as designed;
- If the control continues to be protective of human health and the environment;

- Compliance with requirements of this SMP and the Declaration of Covenants and Restrictions;
- If site records are complete and up to date.

Reporting requirements are outlined in Section 7.0 of this plan.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of the EC occurs that reduces or has the potential to reduce the effectiveness of EC in place at the site, verbal notice to the NYSDEC must be given by noon of the following day. In addition, an inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the site by a qualified environmental professional, as determined by the NYSDEC. Written confirmation must be provided to the NYSDEC within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

5. OPERATION AND MAINTENANCE PLAN

5.1 General

The site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP.

6. PERIODIC ASSESSMENTS/EVALUATIONS

6.1 Climate Change Vulnerability Assessment

Increases in both the severity and frequency of storms/weather events, an increase in sea level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuation, resulting from global climactic change and instability, have the potential to significantly impact the performance, effectiveness, and protectiveness of a given site and associated remedial systems. Vulnerability assessments provide information so that the site and associated remedial systems are prepared for the impacts of the increasing frequency and intensity of severe storms/weather events and associated flooding.

This section provides a summary of vulnerability assessments that will be conducted for the Site during periodic assessments, and briefly summarizes the vulnerability of the Site and/or ECs to severe storms/weather events and associated flooding.

A brief qualitative assessment of potential areas of climate change vulnerabilities associated with the Site was performed, primarily based on the review of site information, and published case studies and literature relevant to the Site's geographic location and physical conditions.

The assessment indicates that potential vulnerabilities applicable to the Site include the following:

- **Flooding:** According to the Federal Emergency Management Agency Flood Hazard Boundary map, the Site is located under Zone X. This zone is described as areas of minimal flood hazard, above the 500-year flood level, which “may have ponding and local drainage problems that don't warrant a detailed study or designation as base floodplain” (FEMA.gov). Zone X is the area determined to be outside the 500-year flood and protected by levee from 100-year flood.
- **Site Drainage and Stormwater Management:** There are no previously identified areas of insufficient groundwater recharge capabilities or inadequate stormwater management systems that may flood during severe rain events; as such, the drainage and stormwater systems associated with and in the vicinity of the Site appear to be adequate.
- **Erosion:** There are no areas at the Site that present evidence of erosion or areas that could be susceptible to erosion during periods of severe rain events. The Site is located in an industrial zone, which is relatively flat and made impermeable by extensive asphalt and/or concrete coverage in the immediate surroundings.

- Electricity: There are no remedial systems at the Site; therefore, electricity needs are not applicable.
- High Wind: There are no areas of the Site that may be susceptible to damage from the wind.
- Spill/Contaminant Release: Waste is not generated or stored/staged at the Site. Should waste need to be generated, if not immediately removed upon generation, it shall be drummed and placed on top of a secondary containment spill platform placed at a location at the Site to minimize potential susceptibilities to a spill or other contaminant release due to storm-related damage, and subsequently transported offsite as soon as possible, or within 10 to 50 days in accordance with Title 40 *Code of Federal Regulations* Part 262.11 and 6 NYCRR 371.

6.2 Green Remediation Evaluation

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any implemented green technology. Since no remediation is ongoing or currently planned at this site, the following green remediation evaluations do not apply to the site and therefore are not required: Timing of Green Remediation Evaluations, Remedial Systems, and Building Operations.

6.2.1 Frequency of Other Periodic Activities

Transportation to and from the Site and use of consumables in relation to visiting the Site in order to conduct inspections have direct and/or inherent energy costs. The schedule and/or means of this periodic activity has been prepared so that this task can be accomplished in a manner that does not impact remedy protectiveness but reduces expenditure of energy or resources.

7. REPORTING REQUIREMENTS

In accordance with the NYSDEC-approved 2011 SMP requirements, inspections, monitoring and reporting were performed by the Volunteers from 2011 to 2019. Following the NYSDEC's approval of the PRR (July 7, 2018 through July 7, 2019) (CH2M 2019), the site monitoring requirement was removed from the SMP and the remaining monitoring wells were abandoned.

7.1 Site Management Reports

All site management inspection and maintenance events will be recorded on the appropriate site management form provided in Appendix G. The form is subject to the NYSDEC revision.

All applicable inspection forms and maintenance reports will be provided in electronic format to the NYSDEC in accordance with the requirements of Table 5-1 and summarized in the PRR.

All inspection reports will include at a minimum, the following:

- Date of event or reporting period;
- Name, company, and position of person(s) conducting inspection activities;
- Description of the activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet);
- Any observations, conclusions, or recommendations.

Routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting maintenance activities;
- Description of maintenance activities performed;
- Any modifications to the integrity of the soil cover;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet);
and,
- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

Non-routine event reporting forms will include, at a minimum, the following:

- Date of event;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;
- Description of non-routine activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet);
- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

7.2 Periodic Review Report

The PRR will consist only of the certification as specified in Section 7.2.1.

A PRR was submitted to the Department in August 2013, and annually thereafter through 2019. Currently, PRRs are to be submitted every year with the next submittal in 2020. In the event that the site is subdivided into separate parcels with different ownership, a single PRR will be prepared that addresses the Site described in Appendix A – Metes and Bounds, and Appendix B – Declaration of Covenants and Restrictions. The report will be prepared in accordance with the NYSDEC’s Division of Environmental Remediation (DER)-10 and submitted within 30 days of the end of each certification period. The report will include the following:

- Identification, assessment, and certification of all ECs/ICs required by the remedy for the Site.
- Results of the required annual site inspections and severe condition inspections, if applicable.
- All applicable site management forms and other records generated for the site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.
- A summary of any information generated during the reporting period, with comments and conclusions, if any
- A site evaluation, which includes the following:
 - The compliance of the remedy with the requirements of the site-specific Remedial Action Work Plan, Record of Decision (ROD), or Decision Document;

- The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;
- Any new conclusions or observations regarding site contamination based on inspections;
- Recommendations regarding any necessary changes to the remedy; and
- The overall performance and effectiveness of the remedy.

7.2.1 Certification of Institutional and Engineering Controls

Following the last inspection of the reporting period, a Professional Engineer licensed to practice in New York State will prepare, and include in the PRR, the following certification as per the requirements of NYSDEC DER-10:

“For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- *The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*
- *The institutional and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department.*
- *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 Department to evaluate the remedy, including access to evaluate the continued maintenance of this control.*
- *If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document.*
- *Use of the site is compliant with the Declaration of Covenants and Restrictions.*
- *The engineering control is effective;*
- *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 in this report is accurate and complete.*

I certify that all information and statements in this certification form 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, [name], of [business address], am certifying as [Owner or Owner's Designated Site Representative] and I have been authorized and designated by all site owners to sign the certification for the site."

The signed certification will be included in the PRR.

The PRR will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the Site is located, and the NYSDOH Bureau of Environmental Exposure Investigation. The PRR/Certification may need to be submitted in hard-copy format, as requested by the NYSDEC project manager.

7.3 Corrective Measures Work Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Work Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Work Plan until it has been approved by the NYSDEC.

8. REFERENCES

- 6 *New York Codes, Rules, and Regulations (NYCRR) Part 375, Environmental Remediation Programs*. December 14, 2006.
- CH2M HILL Engineers, Inc. (CH2M). 2018. *Periodic Review Report (July 7, 2017 through July 7, 2018). Former Dowell Depew Facility 311 Walden Avenue, Depew, New York*. August.
- CH2M HILL Engineers, Inc. (CH2M). 2019. *Periodic Review Report (July 7, 2018 through July 7, 2019). Former Dowell Depew Facility 311 Walden Avenue, Depew, New York*. August.
- CH2M HILL Engineers, Inc. (CH2M). 2020. *Final Engineer Report. Former Dowell Depew Facility 311 Walden Avenue, Depew, New York*. February.
- Federal Emergency Management Agency (FEMA). 2019. *Flood Map Service Center: Search By Address*. September. <<https://msc.fema.gov/portal/search>>
- Geraghty & Miller. 1990. *Site Investigation Report. Former Dowell Facility 3311 Walden Avenue Depew New York, Depew, New York*.
- New York State Department of Environmental Conservation (NYSDEC). 2010. DER-10 Technical Guidance for Site Investigation and Remediation. May.
- Schlumberger Technology Corporation. 2005. *Declaration of Covenants and Restrictions*; filed at the Erie County Clerk's Office, New York. April 29.
- New York State Department of Environmental Conservation (NYSDEC). 2001. *Voluntary Cleanup Agreement, Index #: B9-0586-00-10 (V-00410-9)*. February 26.
- New York State Department of Environmental Conservation (NYSDEC). DER-10 – “Technical Guidance for Site Investigation and Remediation”.
- New York State Department of Environmental Conservation (NYSDEC). 1998. *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1*. June 1998 (April 2000 addendum).
- New York State Department of Environmental Conservation (NYSDEC). 2020. Glossary - Site Remediation Terms. Accessed February 4. <https://www.dec.ny.gov/chemical/8664.html>.
- URS Corporation (URS). 2003. *Remedial Action Work Plan for the Former Dowell Facility 3311 Walden Avenue Depew, New York*. May.
- URS Corporation (URS). 2004. *Remedial Action Report for the Former Dowell Facility 3311 Walden Avenue Depew New York*. Depew, New York. July.
- URS Corporation (URS). 2011. *Site Management Plan for the Former Dowell Facility 3311 Walden Avenue Depew New York*. Depew, New York. May.
- URS Corporation (URS). 2013. *Periodic Review Report (December 7, 2011 – July 7, 2013). Former Dowell Facility 3311 Walden Avenue, Depew, New York*. August.

Tables

Table 1-1. Notifications^a

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Name	Organization/Position	Contact Information
Megan Kuczka	NYSDEC	Phone: (716) 851-7220
	Project Manager (DER)	email: megan.kuczka@dec.ny.gov
Michael Cruden	NYSDEC	Phone: (518) 402-9814
	Central Office Director	email: michael.cruden@dec.ny.gov
Andrea Caprio	NYSDEC	Phone: (716) 851-7220
	Regional Contact	email: andrea.caprio@dec.ny.gov
Charlotte Bethoney	NYSDOH	Phone: (585) 423-8072
	Project Manager (DEC Regions 1 and 9)	email: charlotte.bethoney@health.ny.gov

^aNotifications are subject to change and will be updated as necessary.

Notes:

DER = Division of Environmental Remediation

NYSDEC = New York State Department of Environmental Conservation

NYSDOH = New York State Department of Health

Table 2-1. Groundwater Elevation Measurements

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Well ID	Northing (feet) ^a	Easting (feet) ^b	Ground Surface Elevation (feet amsl) ^b	Top of Casing	Total Depth (feet btoc)	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Depth to Water Measured June 23, 2017 (feet btoc)	Groundwater Elevation June 23, 2017 (feet)
				Elevation (U.S. survey feet) ^b					
MW-01	1060918.910	1118926.532	680.66	680.38	29.72	20.0	30.0	10.83	669.55
MW-02	1061207.358	1119169.445	679.10	678.83	28.03	18.3	28.3	2.05	676.78
MW-04	1061182.237	1119049.105	678.14	677.71	27.57	18.0	28.0	2.05	675.66
MW-07S	1061150.146	1118858.431	677.17	676.66	19.49	9.5	19.5	4.62	672.04
MW-07D	1061142.027	1118861.752	677.43	676.83	29.90	20.0	30.0	5.30	671.53
X-A-1	1061158.295	1118933.247	677.54	680.62	33.25	2.0	31.0	7.35	673.27
X-A-3	1061165.093	1118970.539	677.76	680.47	28.43	2.5	28.5	3.71	676.76
X-C-3	1061130.737	1118958.618	677.76	680.80	28.89	2.0	27.0	9.22	671.58
RW-02	1061102.659	1119042.870	678.66	681.16	18.50	6.0	16.0	4.41	676.75
PZ-01S	1061010.277	1118925.124	678.44	681.49	15.05	2.0	12.0	6.72	674.77
PZ-01D	1061004.001	1118926.203	678.86	681.88	27.52	22.5	24.5	7.07	674.81
PZ-02S	1060920.110	1118923.845	680.72	684.53	15.81	10.0	12.0	6.92	677.61
PZ-03S	1061038.815	1119046.902	680.09	683.08	14.99	10.0	12.0	4.86	678.22
PZ-03D	1061043.063	1119052.978	680.38	682.60	26.22	22.0	24.0	4.67	677.93
PZ-04S	1061069.999	1118915.093	678.23	681.23	15.00	10.0	12.0	8.00	673.23
PZ-04D	1061074.170	1118919.821	678.24	681.44	27.70	22.5	24.5	7.07	674.37
PZ-05S	1061114.176	1119128.343	679.56	682.19	14.63	10.0	12.0	5.21	676.98
PZ-05D	1061117.993	1119132.212	679.53	682.85	27.62	22.3	24.3	5.77	677.08
PZ-07S	1061161.630	1119094.894	679.01	681.93	15.42	10.5	12.5	NM	-
PZ-07D	1061164.545	1119103.472	679.01	681.91	27.90	23.0	25.0	NM	-
PZ-08S	1061181.135	1119044.411	678.25	681.90	15.45	9.8	11.8	5.73	676.17
PZ-09S	1061202.304	1119170.928	679.21	683.16	16.25	10.3	12.3	6.86	676.30

^a North American Datum of 1983 (2011), New York State Plane Coordinate System (West Zone), United States survey feet.

^b North American Vertical Datum of 1988, United States survey feet.

Notes:

An updated survey was performed in April 2015 to verify or establish, or both, ground surface elevations, top of casing elevations, and horizontal and vertical coordinates of wells.

In accordance with NYSDEC's approval of the 2018 PRR (CH2M 2019a), decommissioning of remaining onsite groundwater monitoring wells and piezometers was completed in January 2020.

-- not applicable

amsl = above mean sea level

bgs = feet below ground surface

btoc = feet below top of casing

ID = identification

NM = not measured

NYSDEC = New York State Department of Environmental Conservation

MW = monitoring well

PRR = Periodic Review Report

PZ = piezometer

Table 2-2. Chronology of Site Investigations and Remedial Actions*Site Management Plan, NYSDEC Site Number: V00410-9**Former Dowell Facility, Depew, New York*

Date	Work Performed
September 1989	Removal and offsite disposal was completed of the 1,000-gallon UST and its associated dispenser, the 8,000-gallon AST, and contaminated soils.
May 1990	Site investigation was performed to determine the presence or absence of chemical constituents in site soil and groundwater.
January 1992	Physical and chemical evaluation of groundwater was performed at former UST location.
September 1996 to March 1997	Monitoring well installation (MW-01, MW-02, MW-03, and MW-04) and sampling. The mud separator was decommissioned.
November 1997	Supplemental investigation was performed, soil samples were collected, and groundwater samples were collected from existing monitoring wells.
July 1998	Removal and offsite disposal was completed of former acid plant concrete revetment, 500 tons of VOC-contaminated soil from around the acid plant, cement bulk plant debris, and other miscellaneous debris.
July 1998 to January 2000	Groundwater samples for VOCs were collected four times during this period from MW-01 through MW-04.
February 26, 2001	The Volunteers entered into a Voluntary Cleanup Agreement with NYSDEC.
July 2001	Site investigation was performed to collect soil, sediment, and groundwater samples. Hydraulic conductivity testing was performed. An asbestos survey and land survey of investigation locations was completed.
October 2003 to May 2004	Remedial activities were completed, including asbestos abatement, building/structure demolition, monitoring well abandonment and installation, and excavation and offsite disposal of approximately 4,610 tons of VOC-contaminated soil.
October 2005	Installation of monitoring well MW-07D was completed.
April 2008	Offsite groundwater investigation was completed at three temporary piezometers (BH-01, BH-02, and BH-03) on the northern side of Walden Avenue.
June 2009	Six injection wells upgradient of monitoring wells MW-06S and MW-06D were installed and implemented; 377 gallons of hydrogen peroxide and sodium persulfate were injected between August and November 2009.
September 2010	The final remedial action report was prepared and submitted to NYSDEC.
May 2011	A site management plan was submitted to NYSDEC and subsequently approved.
December 2011	NYSDEC issued a Certificate of Completion for the site remediation.
August 2013	The first Periodic Review Report was submitted and presented a summary of the remedy performance during the period from December 7, 2011, through July 7, 2013.
August 2014	The second Periodic Review Report was submitted and presented a summary of the remedy performance during the period from July 7, 2013, through July 7, 2014.
August 2015	The third Periodic Review Report was submitted and presented a summary of the remedy performance during the period from July 7, 2014, through July 7, 2015.
August 2015	A remedial action work plan was prepared and submitted to NYSDEC for the final onsite remedy to remediate onsite VOC-impacted groundwater.
October 2015	Installation of an ISTT system was completed to remediate onsite VOC-impacted groundwater.
February 2016	Start-up of ISTT system was completed to remediate onsite VOC-impacted groundwater.
August 2016	The fourth Periodic Review Report was submitted and presented a summary of the remedy performance during the period from July 7, 2015, through July 7, 2016.

Table 2-2. Chronology of Site Investigations and Remedial Actions

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Date	Work Performed
October 2016	Operation of the ISTT system was ceased to remediate onsite VOC-impacted groundwater.
November 2016 to December 2016	Decommissioning of the ISTT system and site restoration were completed. Recovery wells X-A-1, X-A-3, and X-C-3 were retrofitted into long-term site monitoring wells to replace previously abandoned site monitoring wells MW-06S, MW-06D, and RW-01.
March 2017	A final engineer report documenting the construction, operation, and decommissioning of the ISTT system was prepared and submitted to NYSDEC.
August 2017	The fifth Periodic Review Report was submitted and presented a summary of the remedy performance during the period from July 7, 2016, through July 7, 2017.
October 2017	A post-ISTT confirmation sampling event was completed.
June 2018	A post-ISTT confirmation sampling event was completed.
August 2018	The sixth Periodic Review Report was submitted and presented a summary of the remedy performance during the period from July 7, 2017, through July 7, 2018.
October 2018	A post-ISTT confirmation sampling event was completed.
April 2019	A post-ISTT confirmation sampling event was completed. Abandoned site monitoring wells MW-01, MW-02, MW-04 and all 13 site piezometers.
August 2019	The seventh Periodic Review Report was submitted and presented a summary of the remedy performance during the period from July 7, 2018, through July 7, 2019.
January 2020	Abandoned site monitoring wells X-A-1, X-A-3, X-C-3, MW-07S, MW-07D, and RW-02.
February 2020	A revised final engineer report documenting the construction, operation, and decommissioning of the ISTT system was submitted to NYSDEC.

Notes:

AST = aboveground storage tank

ISTT = in situ thermal treatment

NYSDEC = New York State Department of Environmental Conservation

SCG = applicable standards, criteria, and guidelines

UST = underground storage tank

VOC = volatile organic compound

Table 2-3. Post-Remedy Soil Sampling Results

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

			SB-01			SB-02					
Location ID:			6/1/2016	6/1/2016	6/1/2016	8/17/2016	8/17/2016	6/1/2016	6/1/2016	6/1/2016	
Sample Date:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Media:			16 - 20 feet	20 - 24 feet	24 - 28 feet	15 feet	24.5 feet	4 - 8 feet	12 - 16 feet	20 - 24 feet	
Sample Depth:			SB01-SL1620-060116	SB01-SL2024-060116	SB01-SL2428-060116	SB01-SL15-081716	SB01-SL24.5-081716	SB02-SL0408-060116	SB02-SL1216-060116	SB02-SL2024-060116	
Sample ID:			Soil			Soil			Soil		
			Unrestricted Use			Unrestricted Use			Unrestricted Use		
Analyte	SCO Values	Units									
1,1,1-Trichloroethane	680	µg/kg	0.237 U	0.233 U	0.245 U	0.230 U	0.251 U	0.291 U	0.305 U	0.245 U	
1,1-Dichloroethane	270	µg/kg	3.27	0.391 U	2.69 J	0.901 J	0.422 U	0.489 U	0.513 U	0.411 U	
1,1-Dichloroethene	330	µg/kg	10.2	0.392 U	1.69 J	0.565 J	0.423 U	0.491 U	0.515 U	0.413 U	
1,2-Dichloroethane	20	µg/kg	0.164 U	0.161 U	0.169 U	0.159 U	0.174 U	0.201 U	0.211 U	0.169 U	
1,2-Dichloroethene (Total) ^a	250	µg/kg	1.71 U	1.68 U	1.77 U	1.66 U	1.81 U	2.10 U	2.20 U	1.77 U	
Acetone	500	µg/kg	29.3 U	33.4 U	30.8 U	44.6 U	25.0 U	47.0 U	68.6	32.2 U	
Benzene	60	µg/kg	0.160 U	0.157 U	0.165 U	0.203 J	0.169 U	0.196 U	0.206 U	0.165 U	
Chloroethane	700	µg/kg	0.736 U	0.724 U	0.762 U	0.716 U	0.782 U	0.906 U	0.950 U	0.762 U	
cis-1,2-Dichloroethene	250	µg/kg	0.468 J	0.410 U	0.431 U	0.434 J	0.443 U	0.513 U	0.538 U	0.431 U	
Ethylbenzene	1,000	µg/kg	0.225 U	0.221 U	0.232 U	0.218 U	0.239 U	0.277 U	0.290 U	0.233 U	
Tetrachloroethene	1,300	µg/kg	0.437 U	0.430 U	0.452 U	0.425 U	0.464 U	0.538 U	0.564 U	0.452 U	
Trichloroethene	470	µg/kg	0.717 U	0.705 U	0.741 U	0.697 U	0.761 U	0.882 U	0.925 U	0.742 U	
Vinyl Chloride	20	µg/kg	16.8	0.745 J	0.411 U	2.36 J	0.422 U	0.489 U	0.513 U	0.411 U	
Xylenes, Total	260	µg/kg	0.547 U	0.538 U	0.566 U	0.532 U	0.581 U	0.674 U	0.706 U	0.566 U	

^a Screening level for cis-1,2-Dichloroethene used for total 1,2-Dichloroethene.

Notes:

Performance Standards in Soil are the New York State Brownfield Cleanup Program - Unrestricted Use Soil Cleanup Objective values divided by 10. See Table 11-1 of September 2006 publication.

Bold indicates that the analyte was detected.

Grey shading indicates that the result exceeded the groundwater screening level.

µg/kg = micrograms per kilogram

ISTT = In-situ Thermal Treatment

ID = identification

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

NYSDEC = New York State Department of Environmental Conservation

U = The analyte was analyzed for but was not detected above the reported sample quantitation limit.

Table 2-3. Post-Remedy Soil Sampling Results

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Analyte	Soil Unrestricted Use SCO Values	Units	SB-02		SB-03					
			8/17/2016 Soil 12 feet	8/17/2016 Soil 20 feet	6/1/2016 Soil 12 - 16 feet	6/1/2016 Soil 16 - 20 feet	6/1/2016 Soil 20 - 24 feet	6/1/2016 Soil 24 - 28 feet	8/17/2016 Soil 14.5 feet	8/17/2016 Soil 25 feet
			SB02-SL12-081716	SB02-SL20-081716	SB03-SL1216-060116	SB03-SL1620-060116	SB03-SL2024-060116	SB03-SL2428-060116	SB03-SL14.5-081716	SB03-SL25-081716
1,1,1-Trichloroethane	680	µg/kg	0.283 U	0.260 U	0.266 U	0.243 U	0.254 U	0.251 U	0.286 U	0.295 U
1,1-Dichloroethane	270	µg/kg	0.476 U	0.437 U	0.446 U	0.409 U	0.426 U	0.422 U	10.5	0.771 J
1,1-Dichloroethene	330	µg/kg	0.478 U	0.438 U	0.448 U	0.410 U	0.428 U	0.423 U	13.0	0.497 U
1,2-Dichloroethane	20	µg/kg	0.196 U	0.180 U	0.184 U	0.168 U	0.175 U	0.174 U	0.198 U	0.204 U
1,2-Dichloroethene (Total) ^a	250	µg/kg	2.04 U	1.87 U	1.92 U	1.76 U	1.83 U	1.81 U	11.1	2.13 U
Acetone	500	µg/kg	80.0	46.0 U	369	28.7 U	25.7 U	33.5 U	89.0	31.7 U
Benzene	60	µg/kg	0.272 J	0.175 U	0.350 J	0.164 U	0.171 U	0.169 U	0.455 J	0.199 U
Chloroethane	700	µg/kg	0.882 U	0.809 U	0.827 U	0.758 U	0.790 U	0.781 U	0.891 U	0.918 U
cis-1,2-Dichloroethene	250	µg/kg	0.499 U	0.458 U	0.900 J	0.429 U	0.447 U	0.442 U	10.6	0.520 U
Ethylbenzene	1,000	µg/kg	0.269 U	0.247 U	0.253 U	0.231 U	0.241 U	0.239 U	0.272 U	0.280 U
Tetrachloroethene	1,300	µg/kg	0.524 U	0.480 U	135	0.450 U	0.469 U	0.464 U	0.529 U	0.545 U
Trichloroethene	470	µg/kg	0.858 U	0.787 U	9.43	0.737 U	0.769 U	0.760 U	1.58 J	0.894 U
Vinyl Chloride	20	µg/kg	0.476 U	0.437 U	1.53 J	0.409 U	0.426 U	0.422 U	25.4	0.982 J
Xylenes, Total	260	µg/kg	0.655 U	0.601 U	0.669 J	0.563 U	0.587 U	0.581 U	0.662 U	0.683 U

^a Screening level for cis-1,2-Dichloroethene used for total 1,2-Dichloroethene

Notes:
Performance Standards in Soil are the New York State Brownfield Cleanup Standards.
Bold indicates that the analyte was detected.

Grey shading indicates that the result exceeded the groundwater screening level.

µg/kg = micrograms per kilogram

ISTT = In-situ Thermal Treatment

ID = identification

J = The analyte was positively identified; the associated numerical value

NYSDEC = New York State Department of Environmental Conservation

U = The analyte was analyzed for but was not detected above the report

Table 2-3. Post-Remedy Soil Sampling Results

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

			SB-04				SB-05		SB-06		
Location ID:			6/1/2016	6/1/2016	6/1/2016	8/17/2016	8/17/2016	8/18/2016	8/18/2016	8/18/2016	8/19/2016
Sample Date:											
Media:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:			16 - 20 feet	20 - 24 feet	24 - 28 feet	12 feet	17.8 feet	15 feet	25 feet	15 feet	25 feet
Sample ID:			SB04-SL1620-060116	SB04-SL2024-060116	SB04-SL2428-060116	SB04-SL12-081716	SB04-SL17.8-081716	SB05-SL15-081816	SB05-SL25-081816	SB06-SL15-081816	SB06-SL25-081916
Analyte	Soil Unrestricted Use										
	SCO Values	Units									
1,1,1-Trichloroethane	680	µg/kg	0.253 U	0.246 U	0.259 U	0.376 U	0.250 U	0.300 UJ	0.255 U	0.324 U	0.238 U
1,1-Dichloroethane	270	µg/kg	6.86	9.54	20.6	0.631 U	0.421 U	0.504 UJ	0.428 U	0.544 U	0.400 U
1,1-Dichloroethene	330	µg/kg	0.426 U	0.415 U	0.437 U	0.633 U	0.422 U	0.506 UJ	0.430 U	0.546 U	0.401 U
1,2-Dichloroethane	20	µg/kg	0.175 U	0.170 U	0.179 U	0.260 U	0.173 U	0.207 UJ	0.176 U	0.224 U	0.164 U
1,2-Dichloroethene (Total) ^a	250	µg/kg	1.82 U	1.78 U	1.87 U	2.71 U	1.81 U	2.17 UJ	1.84 U	2.34 U	1.72 U
Acetone	500	µg/kg	2.93 U	14.8 U	12.1 U	46.5 U	80.8	172 J	69.9	136	57.8
Benzene	60	µg/kg	0.171 U	0.166 U	0.175 U	0.697 J	0.169 U	0.202 UJ	0.623 J	0.218 U	0.368 J
Chloroethane	700	µg/kg	0.787 U	0.766 U	0.807 U	1.17 U	0.779 U	0.934 UJ	0.793 U	1.01 U	0.740 U
cis-1,2-Dichloroethene	250	µg/kg	0.977 J	0.434 U	0.457 U	0.662 U	0.441 U	0.529 UJ	0.449 U	0.571 U	0.419 U
Ethylbenzene	1,000	µg/kg	0.240 U	0.234 U	0.246 U	0.357 U	0.238 U	0.285 UJ	0.242 U	0.308 U	0.226 U
Tetrachloroethene	1,300	µg/kg	0.467 U	0.455 U	0.479 U	0.694 U	0.463 U	0.555 UJ	0.471 U	0.598 U	0.439 U
Trichloroethene	470	µg/kg	0.766 U	0.746 U	0.785 U	1.14 U	0.759 U	0.909 UJ	0.772 U	0.981 U	0.720 U
Vinyl Chloride	20	µg/kg	1.11 J	2.21 J	3.76	0.631 U	0.421 U	0.504 UJ	0.428 U	0.544 U	0.400 U
Xylenes, Total	260	µg/kg	0.585 U	0.569 U	0.600 U	0.869 U	0.579 U	0.694 UJ	0.590 U	0.749 U	0.550 U

^a Screening level for cis-1,2-Dichloroethene used for total 1,2-Dichloroethene

Notes:
Performance Standards in Soil are the New York State Brownfield Cleanup Standards.
Bold indicates that the analyte was detected.

Grey shading indicates that the result exceeded the groundwater screening level.

µg/kg = micrograms per kilogram

ISTT = In-situ Thermal Treatment

ID = identification

J = The analyte was positively identified; the associated numerical value

NYSDEC = New York State Department of Environmental Conservation

U = The analyte was analyzed for but was not detected above the report

Table 2-3. Post-Remedy Soil Sampling Results

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Analyte	Soil Unrestricted Use		SB-07		SB-08		SB-09		SB-10	SB-11
	SCO Values	Units	8/18/2016	8/18/2016	8/18/2016	8/18/2016	8/19/2016	8/19/2016	10/6/2016	10/6/2016
1,1,1-Trichloroethane	680	µg/kg	0.313 U	0.264 U	0.308 U	0.232 U	0.312 U	0.248 U	0.277 U	0.292 U
1,1-Dichloroethane	270	µg/kg	0.526 U	0.443 U	0.518 U	0.390 U	0.524 U	0.417 U	8.88	4.61
1,1-Dichloroethene	330	µg/kg	0.527 U	0.445 U	0.519 U	0.391 U	0.525 U	0.418 U	24.8	102
1,2-Dichloroethane	20	µg/kg	0.216 U	0.182 U	0.213 U	0.161 U	0.216 U	0.172 U	0.192 U	0.202 U
1,2-Dichloroethene (Total) ^a	250	µg/kg	2.26 U	1.90 U	2.22 U	1.68 U	2.25 U	1.79 U	9.92	17.4
Acetone	500	µg/kg	21.9	49.7	29.4 U	8.52 J	78.0	19.7	42.7 U	76.9 U
Benzene	60	µg/kg	0.211 U	0.213 J	0.208 U	0.157 U	0.210 U	0.167 U	0.432 J	0.608 J
Chloroethane	700	µg/kg	0.974 U	0.821 U	0.959 U	0.723 U	0.970 U	0.772 U	0.863 U	0.910 U
cis-1,2-Dichloroethene	250	µg/kg	0.552 U	0.465 U	0.543 U	0.409 U	0.549 U	0.437 U	9.12	15.6
Ethylbenzene	1,000	µg/kg	0.297 U	0.251 U	0.293 U	0.221 U	0.296 U	0.236 U	0.264 U	0.278 U
Tetrachloroethene	1,300	µg/kg	0.578 U	0.488 U	0.570 U	0.429 U	0.576 U	0.459 U	0.513 U	0.627 J
Trichloroethene	470	µg/kg	0.948 U	0.800 U	0.934 U	0.703 U	0.944 U	0.752 U	4.66	11.6
Vinyl Chloride	20	µg/kg	0.526 U	0.443 U	0.518 U	0.390 U	0.524 U	0.417 U	15.8	15.4
Xylenes, Total	260	µg/kg	0.724 U	0.611 U	0.713 U	0.537 U	0.721 U	0.574 U	0.642 U	0.677 U

^a Screening level for cis-1,2-Dichloroethene used for total 1,2-Dichloroethene

Notes:
Performance Standards in Soil are the New York State Brownfield Cleanup Standards.
Bold indicates that the analyte was detected.

Grey shading indicates that the result exceeded the groundwater screening level.

µg/kg = micrograms per kilogram

ISTT = In-situ Thermal Treatment

ID = identification

J = The analyte was positively identified; the associated numerical value

NYSDEC = New York State Department of Environmental Conservation

U = The analyte was analyzed for but was not detected above the reportable level

Table 2-4. Post-Remedy Groundwater Sampling Results

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Analyte	Groundwater SCG Values	Units	RW-02				X-A-1						
			Location ID:	12/3/2016	6/23/2017	10/20/2017	10/31/2018	12/3/2016	6/23/2017	10/20/2017	6/19/2018	10/31/2018	4/23/2019
			Sample Date:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			Media:	RW-02-120316	RW-02-062317	RW-02-102017	RW-02-103118	X-A-1-120316	X-A-1-062317	X-A-1-102017	X-A-1-061918	X-A-1-103118	X-A-1-042319
Sample ID:													
1,1,1-Trichloroethane	5	µg/L	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.238 U	
1,1-Dichloroethane	5	µg/L	0.380 U	0.380 U	0.380 U	0.380 U	0.380 U	0.380 U	0.685 J	0.743 J	0.720 J	0.557 J	
1,1-Dichloroethene	5	µg/L	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.117 U	
1,2-Dichloroethane	0.6	µg/L	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.430 U	
1,2-Dichloroethene (Total) ^a	5	µg/L	0.810 U	6.12	3.44	4.02	2.34	2.61	3.75	1.51 J	0.810 U	0.625 J	
Acetone ^b	50	µg/L	3.00 U	3.00 U	3.00 U	3.00 U	67.1	3.00 U	3.00 U	11.2 J	3.00 U	4.98 U	
Benzene	1	µg/L	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.518 J	0.410 U	0.410 U	0.410 U	0.428 U	
Chloroethane	5	µg/L	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	
cis-1,2-Dichloroethene	5	µg/L	0.810 U	6.12	3.44	4.02	2.34	2.61	3.75	1.51	0.810 U	0.625 J	
Ethylbenzene	5	µg/L	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.298 U	
Tetrachloroethene	5	µg/L	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.249 U	
Trichloroethene	5	µg/L	0.460 U	3.14	1.29	1.43	0.460 U	0.460 U	0.460 U	0.460 U	0.460 U	0.314 U	
Vinyl Chloride	2	µg/L	0.900 U	2.11^c	0.900 U	1.04	0.900 U	5.41 J	6.65	6.26	3.12	2.20^c	
Xylenes, Total	5	µg/L	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.296 U	

^a Screening level for cis-1,2-Dichloroethene used for total 1,2-Dichloroethene.

^b Acetone generation is a temporary byproduct of thermal treatment and exceedances of the acetone SCG were not a driver for continued operation of the ISTT system.

^c Vinyl chloride does not exceed its SCG value when being consistent with the use of one significant figure as is used in the SCG value.

Notes:

SCG Values = Applicable standards, criteria, and guideline values. Division of Water Technical & Operational Guidance Series (TOGS) 1.1.1 New York State Ambient Water Quality Standards and Guidance Values and Ground Water Effluent Limitations - Table 1 and Table 5 - Class GA; June 1998; modified January 1999; modified April 2000; modified June 2004

Bold indicates that the analyte was detected.

Grey shading indicates that the result exceeded the groundwater screening level.

ISTT = In-situ Thermal Treatment

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

µg/L = micrograms per liter

U = The analyte was analyzed for but was not detected above the reported sample quantitation limit.

Table 2-4. Post-Remedy Groundwater Sampling Results

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Analyte	Groundwater SCG Values	Units	X-C-3							X-A-3			
			12/3/2016	2/1/2017	6/23/2017	10/20/2017	6/19/2018	10/31/2018	4/23/2019	12/3/2016	2/1/2017	6/23/2017	10/20/2017
Location ID:	Sample Date:	Media:	Sample ID:	Sample ID:	Sample ID:	Sample ID:	Sample ID:	Sample ID:	Sample ID:	Sample ID:	Sample ID:	Sample ID:	
			X-C-3-120316	X-C-3-01-020117	X-C-3-062317	X-C-3-102017	X-C-3-061918	X-C-3-01-103118	X-C-3-01-042319	X-A-3-120316	X-A-3-01-020117	X-A-3-062317	X-A-3-102017
1,1,1-Trichloroethane	5	µg/L	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.238 U	0.820 U	0.820 U	0.820 U	0.820 U
1,1-Dichloroethane	5	µg/L	0.380 U	0.756 J	0.801 J	0.743 J	0.811 J	0.593 J	0.369 J	3.76	2.74	2.16	0.380 U
1,1-Dichloroethene	5	µg/L	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.117 U	0.290 U	0.290 U	0.290 U	0.290 U
1,2-Dichloroethane	0.6	µg/L	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.430 U	0.210 U	0.210 U	0.210 U	0.210 U
1,2-Dichloroethene (Total) ^a	5	µg/L	1.30 J	1.87 J	2.34	1.50 J	1.16 J	1.15 J	1.06 J	5.09	5.51	2.48	0.810 U
Acetone ^b	50	µg/L	4.46 J	3.90 J	3.00 U	3.00 U	3.70 J	3.00 U	4.98 U	3.00 U	3.00 U	3.00 U	3.00 U
Benzene	1	µg/L	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.428 U	0.410 U	0.410 U	0.410 U	0.410 U
Chloroethane	5	µg/L	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	3.01
cis-1,2-Dichloroethene	5	µg/L	1.30	1.87	2.34	1.50	1.16	1.15	1.06	5.09	5.51	2.48	0.810 U
Ethylbenzene	5	µg/L	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.298 U	0.740 U	0.740 U	0.740 U	0.740 U
Tetrachloroethene	5	µg/L	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.249 U	0.360 U	0.360 U	0.360 U	0.360 U
Trichloroethene	5	µg/L	0.460 U	0.460 U	0.460 U	0.460 U	0.460 U	0.460 U	0.314 U	1.41	0.845 J	0.460 U	0.460 U
Vinyl Chloride	2	µg/L	2.35 J^c	4.83	9.15	5.06	4.84	2.16^c	2.25^c	24.5 J	17.5	5.23	0.900 U
Xylenes, Total	5	µg/L	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.296 U	0.660 U	0.660 U	0.660 U	0.660 U

^a Screening level for cis-1,2-Dichloroethene used for total 1,2-Dichloroethene.

^b Acetone generation is a temporary byproduct of thermal treatment and exceedances of the acetone SCG were not a driver for continued operation of the ISTT system.

^c Vinyl chloride does not exceed its SCG value when being consistent with the use of one significant figure as is used in the SCG value.

Notes:

SCG Values = Applicable standards, criteria, and guideline values. Division of Water Technical & Operational Guidance Series (TOGS) 1.1.1 New York State Ambient Water Quality Standards and Guidance Values and Ground Water Effluent Limitations - Table 1 and Table 5 - Class GA; June 1998; modified January 1999; modified April 2000; modified June 2004

Bold indicates that the analyte was detected.

Grey shading indicates that the result exceeded the groundwater screening level.

ISTT = In-situ Thermal Treatment

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

µg/L = micrograms per liter

U = The analyte was analyzed for but was not detected above the reported sample quantitation limit.

Table 2-4. Post-Remedy Groundwater Sampling Results

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Analyte	Groundwater SCG Values	Units	Location ID:	MW-01	MW-02	MW-04	MW-7S	MW-7D				
			Sample Date:	6/23/2017	6/23/2017	6/23/2017	6/23/2017	10/20/2017	10/31/2018	6/23/2017	10/20/2017	10/31/2018
			Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			Sample ID:	MW-01-062317	MW-02-062317	MW-04-062317	MW-07S-062317	MW-07S-102017	MW-07S-103118	MW-07D-062317	MW-07D-102017	MW-07D-103118
1,1,1-Trichloroethane	5	µg/L	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	1.64 U	0.820 U
1,1-Dichloroethane	5	µg/L	0.380 U	0.380 U	0.380 U	0.380 U	0.691 J	0.761 J	0.736 J	0.380 U	0.760 U	0.380 U
1,1-Dichloroethene	5	µg/L	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.580 U	0.290 U
1,2-Dichloroethane	0.6	µg/L	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.420 U	0.210 U
1,2-Dichloroethene (Total) ^a	5	µg/L	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U	1.62 U	0.810 U
Acetone ^b	50	µg/L	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	6.00 U	3.00 U
Benzene	1	µg/L	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.820 U	0.410 U
Chloroethane	5	µg/L	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.640 U	0.320 U
cis-1,2-Dichloroethene	5	µg/L	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U	1.62 U	0.810 U
Ethylbenzene	5	µg/L	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	1.48 U	0.740 U
Tetrachloroethene	5	µg/L	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.720 U	0.360 U
Trichloroethene	5	µg/L	0.460 U	0.460 U	0.460 U	0.460 U	0.460 U	0.460 U	0.460 U	0.460 U	0.920 U	0.460 U
Vinyl Chloride	2	µg/L	0.900 U	0.900 U	0.900 U	0.900 U	0.900 U	0.900 U	0.900 U	0.900 U	1.80 U	0.900 U
Xylenes, Total	5	µg/L	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	1.32 U	0.660 U

^a Screening level for cis-1,2-Dichloroethene used for total 1,2-Dichloroethene.

^b Acetone generation is a temporary byproduct of thermal treatment and exceedances of the acetone SCG were not a driver for continued operation of the ISTT system.

^c Vinyl chloride does not exceed its SCG value when being consistent with the use of one significant figure as is used in the SCG value.

Notes:

SCG Values = Applicable standards, criteria, and guideline values. Division of Water Technical & Operational Guidance Series (TOGS) 1.1.1 New York State Ambient Water Quality Standards and Guidance Values and Ground Water Effluent Limitations - Table 1 and Table 5 - Class GA; June 1998; modified January 1999; modified April 2000; modified June 2004

Bold indicates that the analyte was detected.

Grey shading indicates that the result exceeded the groundwater screening level.

ISTT = In-situ Thermal Treatment

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

µg/L = micrograms per liter

U = The analyte was analyzed for but was not detected above the reported sample quantitation limit.

Table 5-1. Inspection Reporting Summary/Schedule

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Task/Report	Reporting Frequency*
Site-wide Inspections	Annually or as otherwise determined by NYSDEC
Certification/Periodic Review Report	Annually or as otherwise determined by NYSDEC

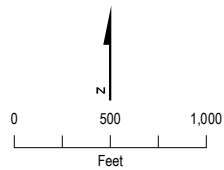
* The frequency of events will be conducted as specified until otherwise approved by the NYSDEC.

NYSDEC = New York State Department of Environmental Conservation

Figures



Source:
Imagery: ESRI - Microsoft 2011



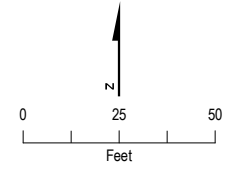
LEGEND
 Site Boundary

Figure 1-1.
Site Location Map
 Site Management Plan
 Former Dowell Facility, Depew, New York



Notes:
 1. Location of former buildings, tanks, concrete, and features is approximate.
 2. Site monitoring wells and piezometers were abandoned between April 2019 and January 2020.

Acronyms:
 HCL = hydrochloric acid
 UST = underground storage tank
Source:
 Imagery: ArcGIS Online World Imagery - April 2017

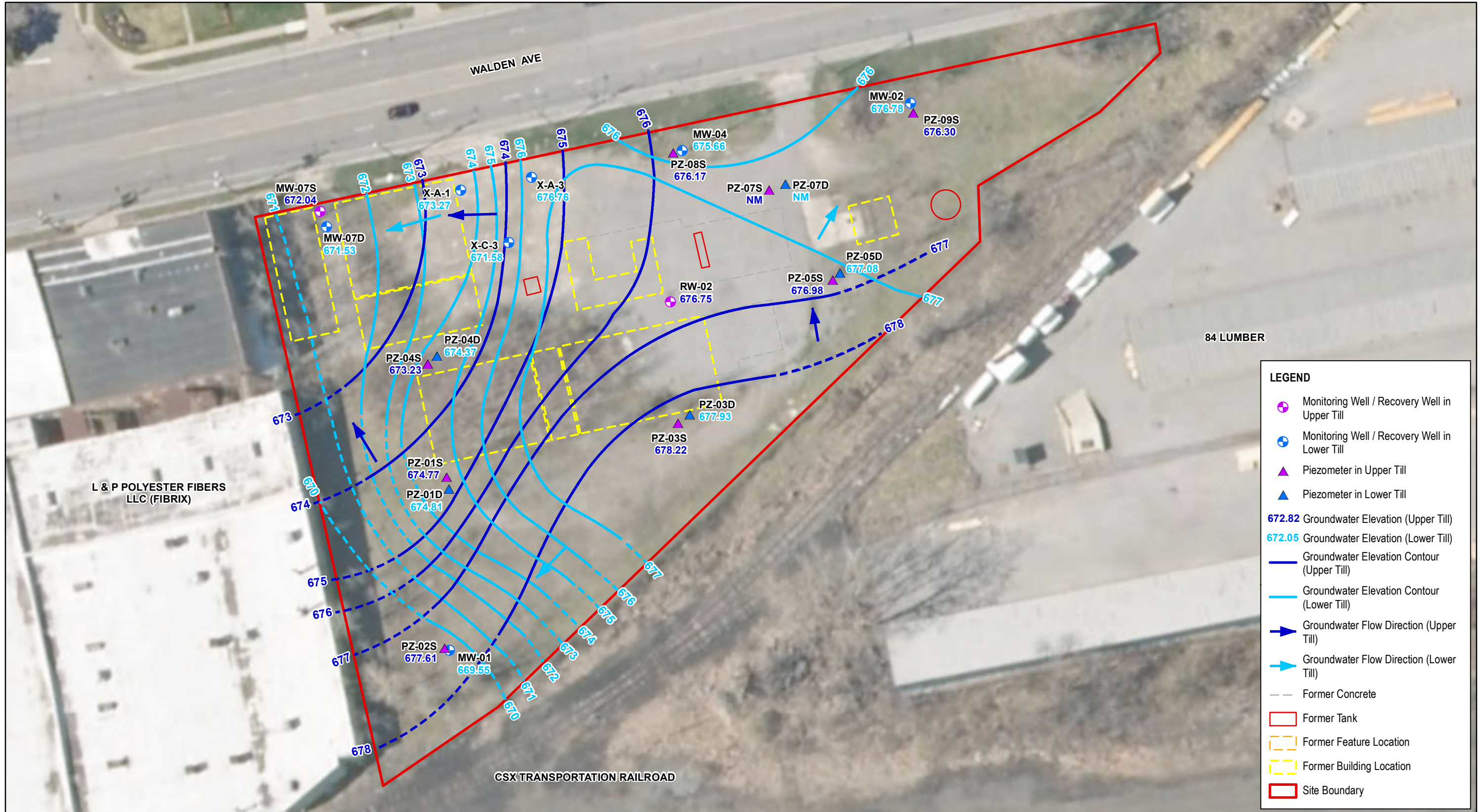


LEGEND

- Monitoring Well / Recovery Well in Upper Till
- Monitoring Well / Recovery Well in Lower Till
- Piezometer in Upper Till
- Piezometer in Lower Till
- Former Concrete
- Former Tank
- In Situ Thermal Treatment Area
- Former Feature Location
- Former Building Location
- Site Boundary

FIGURE 1-2.
Site Map
 Site Management Plan
 Former Dowell Facility, Depew, New York





LEGEND

- Monitoring Well / Recovery Well in Upper Till
- Monitoring Well / Recovery Well in Lower Till
- Piezometer in Upper Till
- Piezometer in Lower Till
- 672.82** Groundwater Elevation (Upper Till)
- 672.05** Groundwater Elevation (Lower Till)
- Groundwater Elevation Contour (Upper Till)
- Groundwater Elevation Contour (Lower Till)
- Groundwater Flow Direction (Upper Till)
- Groundwater Flow Direction (Lower Till)
- Former Concrete
- Former Tank
- Former Feature Location
- Former Building Location
- Site Boundary

- Notes:**
1. Groundwater elevations are presented in feet above mean sea level.
 2. Groundwater levels were gauged on June 22, 2017.
 3. Groundwater contour lines are dashed where inferred.
 4. Site monitoring wells were resurveyed in April 2015. This figure uses updated site monitoring well and piezometer horizontal coordinates and vertical elevations.
 5. Location of former buildings, tanks, concrete, and features is approximate.

6. Site monitoring well X-C-3 excluded from Lower Till Groundwater Elevation Contour. Water level inside site monitoring well is still recovering from thermal treatment remedy.
7. Site piezometers PZ-07S and PZ-07D were not accessible at time of water level gauging activities; therefore groundwater elevation were not measured at these locations.
8. Site monitoring wells and piezometers were abandoned between April 2019 and January 2020.

Acronym:
 NM = not measured
 NYSDEC = New York State Department of Environmental Conservation
 PRR = Periodic Review Report
Source:
 Imagery: ArcGIS Online World Imagery - April 2017

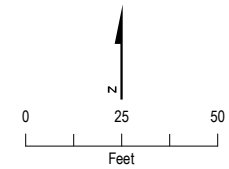
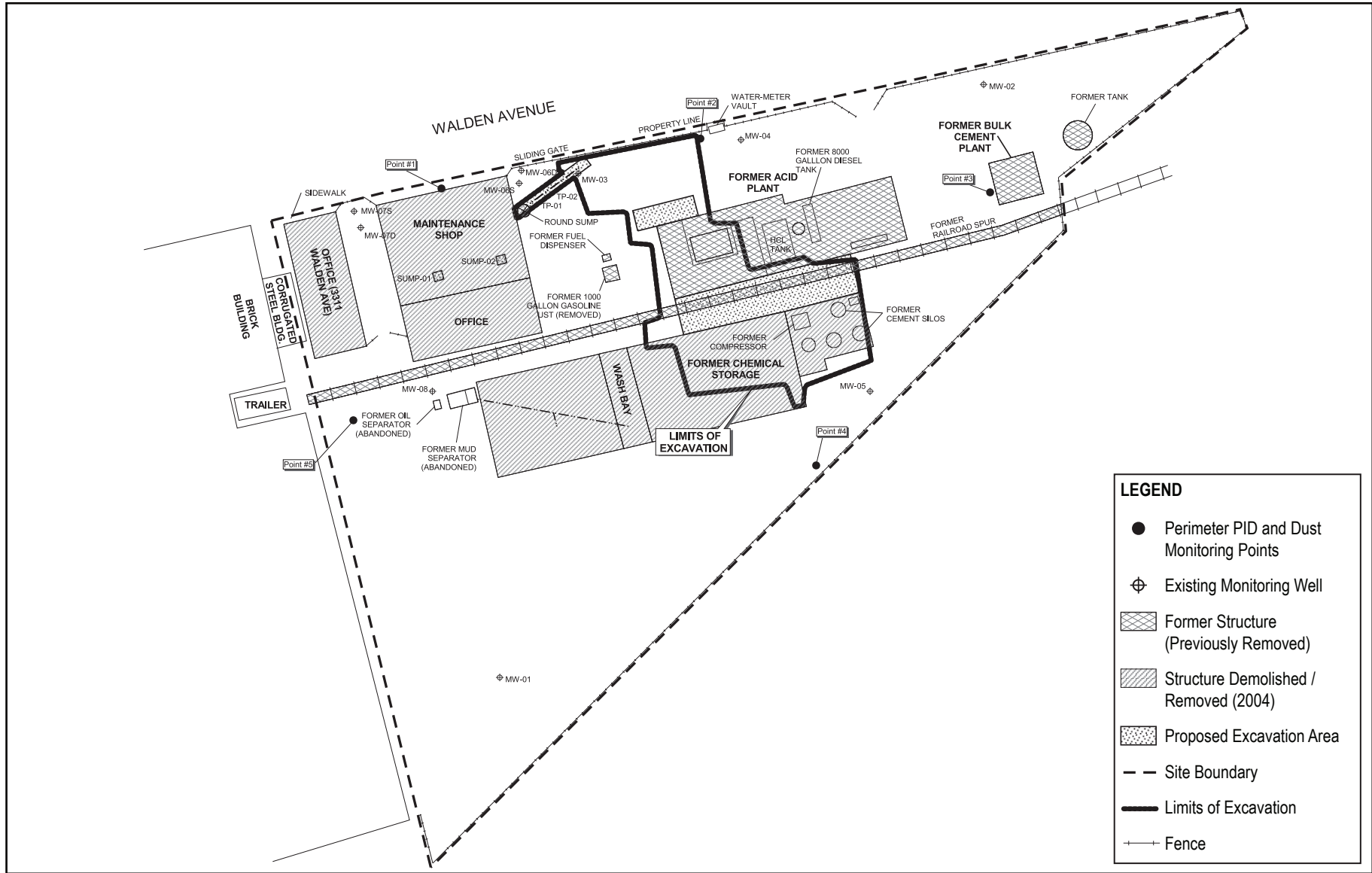


FIGURE 2-1.
Groundwater Contour Map - June 2017
 Site Management Plan
 Former Dowell Depew Facility, Depew, New York



Acronyms:
HCL - Hydrochloric Acid
PID - Photoionization Detector
UST - Underground Storage Tank

Notes:
Site monitoring wells were abandoned between April 2019 and January 2020.

Source:
2011 Site Management Plan prepared by URS.

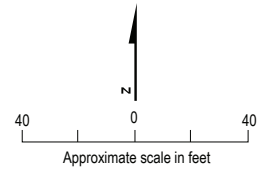


Figure 2-2.
2004 Soil Excavation Remedial Action
Site Management Plan
Former Dowell Facility, Depew, New York



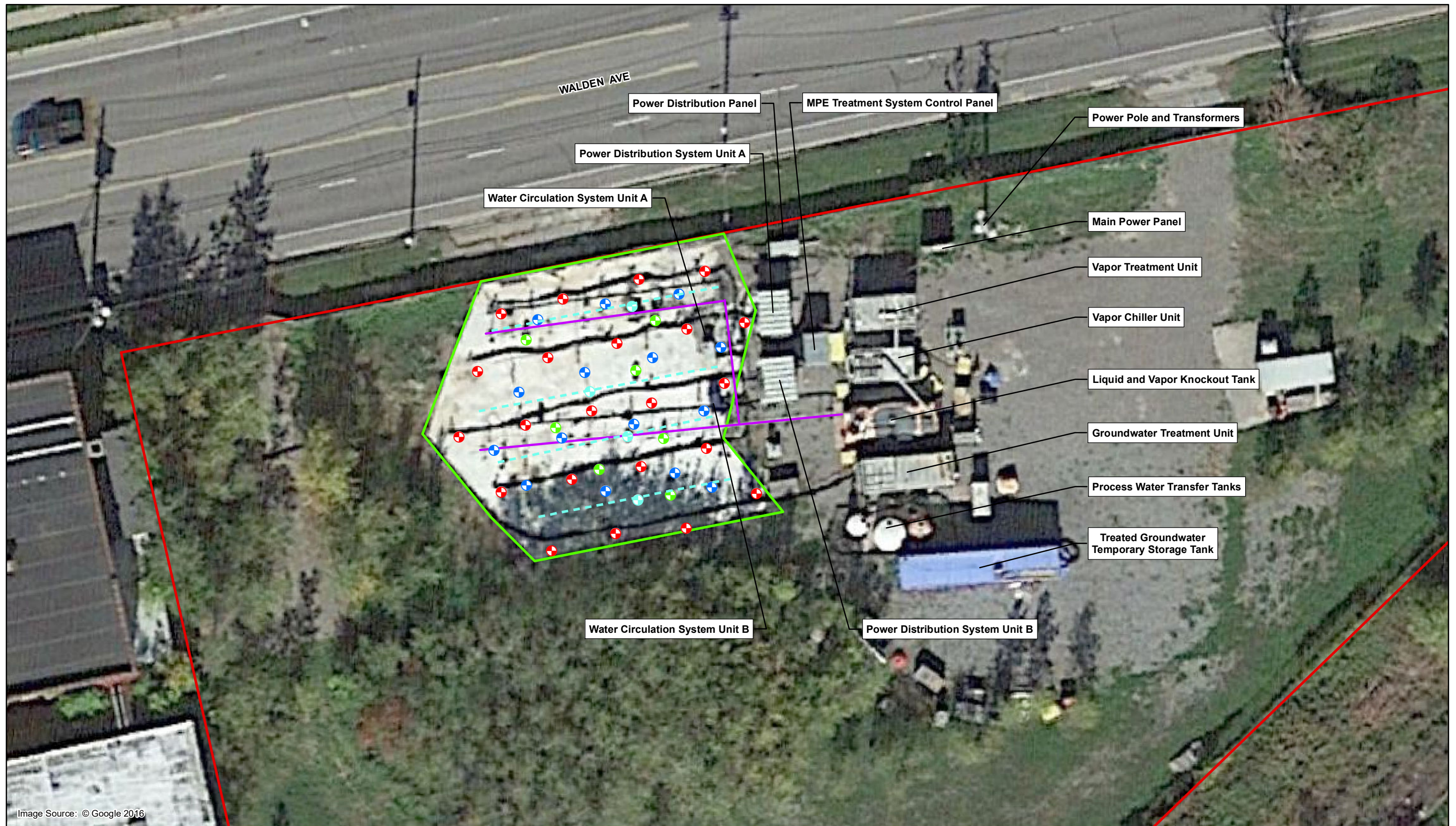


Image Source: © Google 2016

LEGEND

- ⊕ Electrode
- ⊕ MPE Well
- ⊕ Temperature Monitoring Sensor
- ⊕ SVE Well
- Extracted Liquid and Vapor Conveyance Piping
- Site Boundary
- Vapor Cap

Notes:
 1. SVE = soil vapor extraction
 2. MPE = multi-phase extraction

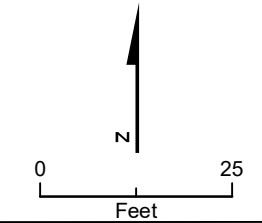
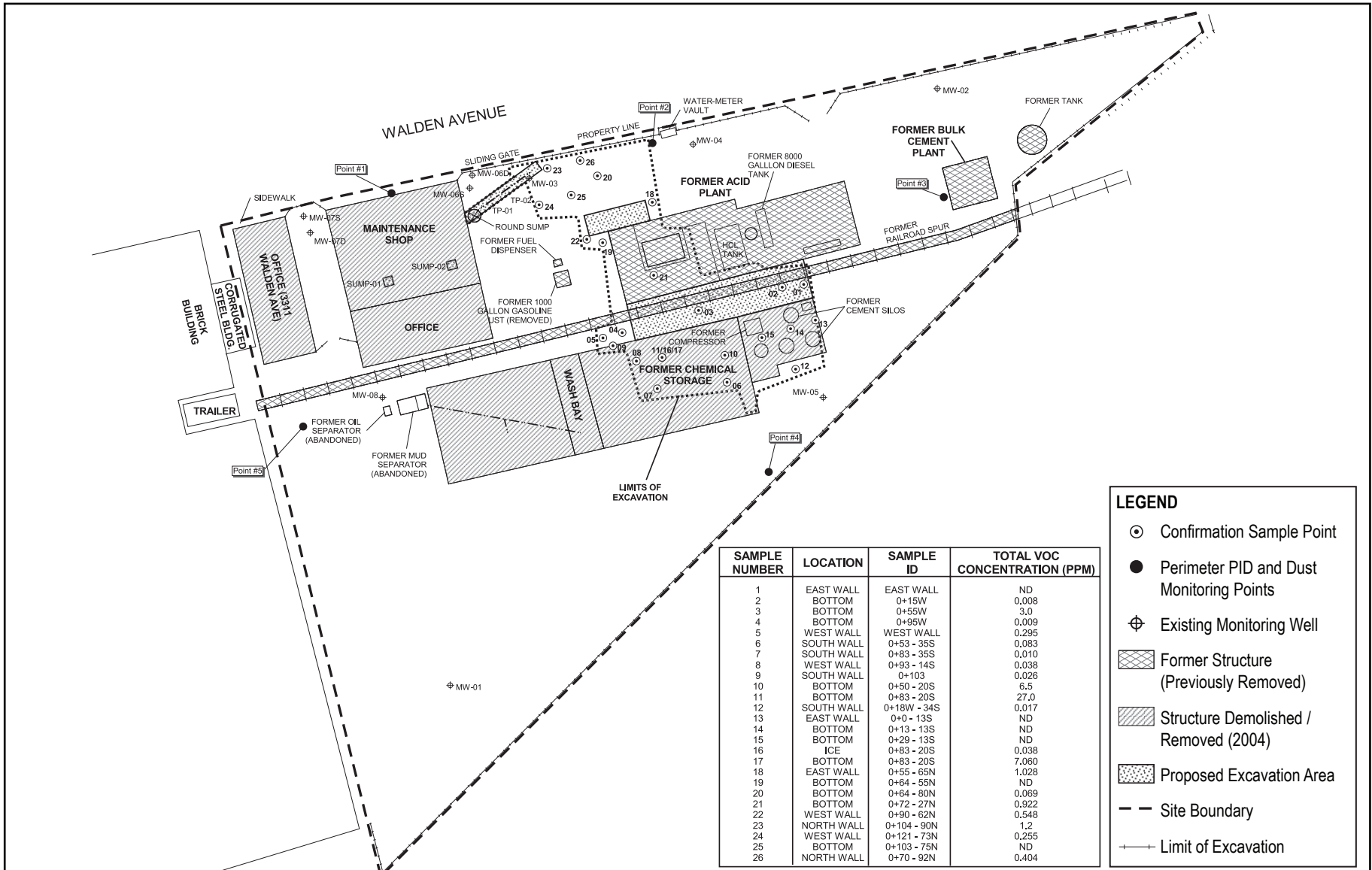


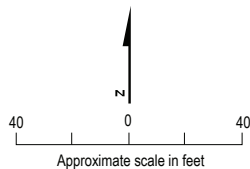
FIGURE 2-3.
 Former Features of 2016 Groundwater Thermal
 Treatment Remedial Action
 Site Management Plan
 Former Dowell Facility, Depew, New York





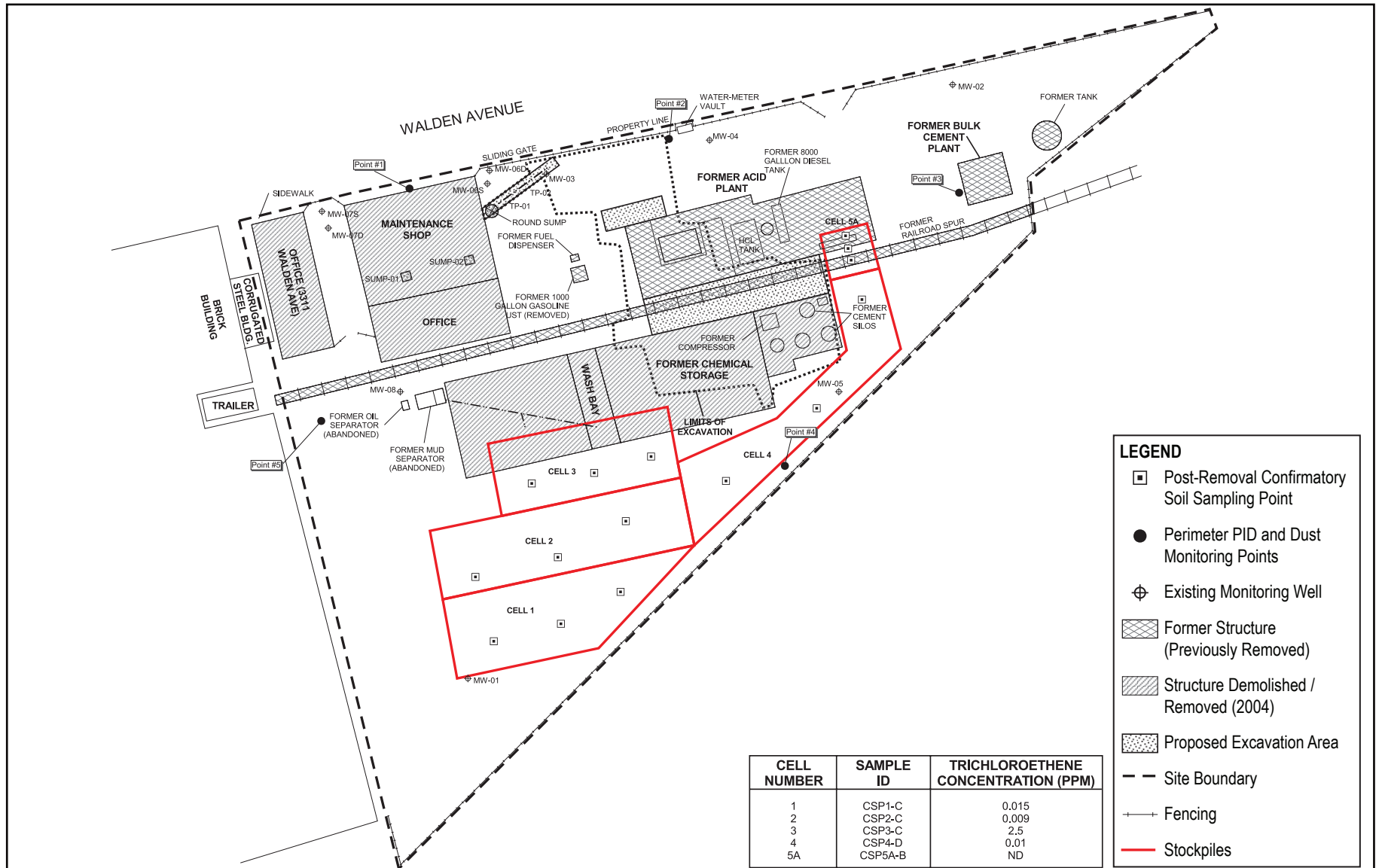
Acronyms:
HCL - Hydrochloric Acid
ND - Not Detected
PID - Photoionization Detector
PPM - Parts Per Million
UST - Underground Storage Tank
VOC - Volatile Organic Compound

Notes:
Site monitoring wells were abandoned between April 2019 and January 2020.



Source:
2011 Site Management Plan prepared by URS.

Figure 2-4.
Remaining Soil Contamination – Confirmation
Sample Locations (Bottom)
Site Management Plan
Former Dowell Facility, Depew, New York

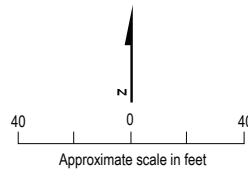


LEGEND

- Post-Removal Confirmatory Soil Sampling Point
- Perimeter PID and Dust Monitoring Points
- ⊕ Existing Monitoring Well
- ▨ Former Structure (Previously Removed)
- ▩ Structure Demolished / Removed (2004)
- ▤ Proposed Excavation Area
- - - Site Boundary
- +— Fencing
- Stockpiles

Acronyms:
HCL - Hydrochloric Acid
ND - Not Detected
PID - Photoionization Detector
PPM - Parts Per Million
VOC - Volatile Organic Compound

Notes:
Site monitoring wells were abandoned between April 2019 and January 2020.



Source:
2011 Site Management Plan prepared by URS.

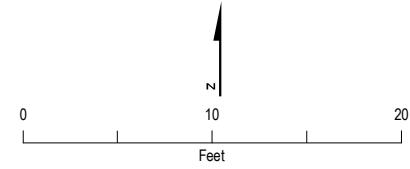
Figure 2-5.
Remaining Soil Contamination – Confirmation
Sample Locations (Stockpile Reuse)
Site Management Plan
Former Dowell Facility, Depew, New York



Notes:
 1. Site monitoring wells and piezometers were abandoned between April 2019 and January 2020.
 2. Electrodes, MPE wells, temperature monitoring sensors, and SVE wells were abandoned in November and December 2016.

Acronyms:
 ISTT = in-situ thermal treatment
 MPE = multi-phase extraction
 SVE = soil vapor extraction
 TMS = temperature monitoring sensor

Sources:
 ©2016 Google™ with modifications from CH2M.



LEGEND

- Electrode
- MPE Well
- Temperature Monitoring Sensor
- SVE Well
- Target Treatment Zone
- Vapor Cap
- Site Boundary

FIGURE 2-6.
Post-Remedy Groundwater Sampling Locations
 Site Management Plan
 Former Dowell Facility, Depew, New York



Appendix A

Metes and Bounds

This Indenture,

Made the 10th day of January, Nineteen Hundred and Eighty-three

Between HENRY J. GIANADDA, residing at 25 Eldon Road, Buffalo New York and PETER J. CASARSA, residing at 690 Pampano Drive, Naples, Florida 33942 Grantor(s), and

THE DOW CHEMICAL COMPANY, a Delaware Corporation with offices at 2030 Dow Center, Midland, Michigan Grantee(s).

Witnesseth, that the said Grantor(s), in consideration of ONE & MORE Dollars (\$1.00 & MORE) lawful money of the United States, paid by the Grantee(s), do hereby grant and release unto the Grantee(s), their heirs and assigns forever.

All that Tract or Parcel of Land,

PREMISES DESCRIBED IN SCHEDULE "A" ATTACHED.

RECEIVED
\$ 203.50
REAL ESTATE
JAN 28 1983
TRANSFER TAX
10786 ERIE COUNTY Co

SCHEDULE "A"

ALL THAT TRACT OR PARCEL OF LAND, situate in the Village of Depew, Town of Lancaster, County of Erie and State of New York, being parts of Lots Numbers ten (10) and twelve (12), Section ten (10), Township eleven (11), Range six (6) of the Holland Land Company's Survey, bounded and described as follows:-

BEGINNING at a point in the southerly line of New Walden Avenue, (formerly Ellicott Road), distant easterly nine hundred ninety-two and three tenths (992.3) feet as measured along the same from the point of intersection of the southerly line of New Walden Avenue, (formerly Ellicott Road) with the Transit Line in the center of the Transit Road, said point of beginning being the northeasterly corner of land conveyed by John F. C. Fahning and wife to Bernhard Fischer by deed dated September 28 1874 and recorded in the Erie County Clerk's Office in Liber 339 of Deeds at page 305, and running thence easterly along the southerly line of New Walden Avenue, (formerly Ellicott Road), thirty-eight (38) feet; thence southerly at right angles to the southerly line of New Walden Avenue, (formerly Ellicott Road), eighty-two and seventy-five hundredths (82.75) feet; thence easterly, parallel with the southerly line of New Walden Avenue, (formerly Ellicott Road) one hundred eighty-five and seventy-five hundredths (185.75) feet; thence northeasterly along a line making an exterior angle of $171^{\circ} 25'$ with the last preceding course, one hundred sixty-two and three tenths (162.3) feet; thence southeasterly at right angles to the last preceding course, twenty-one (21) feet; thence ^{IN A STRAIGHT LINE} southwesterly five hundred nineteen and one tenth (519.1) feet more or less to the northeasterly corner of that parcel of land conveyed by John Fahning, et al to The New York Central and Hudson River Railroad Company by deed dated April 6 1870 and recorded in the Erie County Clerk's Office in Liber 340 of Deeds at page 182; thence northerly three hundred thirty-four and thirty hundredths

SCHEDULE "A" Con't.

(334.30) feet more or less to the point and place of beginning, being also along the easterly line of land conveyed to Bernhard Fischer by deed dated and recorded as aforesaid, containing one and twenty-five hundredths (1.25) acres of land, more or less.

EXCEPTING AND RESERVING that part conveyed to 3307 Walden Avenue Inc. by deed recorded in Erie County Clerk's Office in Liber 7083 of Deeds at page 245.

ALSO ALL THAT TRACT OR PARCEL OF LAND situate in the Village of Depew, Town of Lancaster, County of Erie and State of New York, being part of Lot Number twelve (12), Section ten (10), Township eleven (11), Range six (6) of the Holland Land Company's Survey, bounded and described as follows:-

BEGINNING at a point in the southerly line of New Walden Avenue distant nine hundred eighty-three and three tenths (983.3) feet east from the Transit Line in the center line of Transit Road said point of beginning being also nine (9) feet west of the northeasterly corner of lands conveyed by John F. C. Fanning to Bernhard Fischer by deed recorded in the Erie County Clerk's Office in Liber 339 of Deeds at page 305; running thence easterly along the south line of New Walden Avenue, nine (9) feet to the northeasterly corner of said lands conveyed to Bernhard Fischer, said point being also the northwesterly corner of lands conveyed to Henter Construction Corporation by deed recorded in the Erie County Clerk's Office in Liber 7033 of Deeds at page 465; running thence southerly forming an exterior angle of $102^{\circ} 06'$ and along the west line of lands so conveyed to Henter Construction Corporation, forty-two and ninety-four hundredths (42.94) feet to their intersection with a line drawn at right angles from the point of beginning; running thence northerly along said right angle line, forty-one and ninety-eight hundredths (41.98) feet to the place of beginning.

D H H H H

Box 51

1983 JAN 28 AM 10:57

FILED
HENRY J. GIANADDA and
PETER J. CASARSA
ERIE COUNTY
CLERK'S OFFICE

57

U.S.

THE DOW CHEMICAL COMPANY

DATED JANUARY /6 19 83

LIBER 9199 PAGE 205
STATE OF NEW YORK
ERIE COUNTY CLERK'S OFFICE
Recorded in Liber 9199 Page 202
of Deed
on the 28 day of January
A. D., 1983, at 10:57 o'clock A.M.
and examined.

Emilio Maffei
County Clerk

MAGAVERN, MAGAVERN, LOWE,
BELLEWECH, DOPKINS & FADALE
20 Cathedral Park
Buffalo, New York 14202

1-13-83

TOGETHER with the appurtenances and all the estate and rights of the Grantor(s) in and to the said premises.

TO HAVE AND TO HOLD, the above granted premises unto the said Grantee(s).

AND the said Grantor(s) do covenant with said Grantee(s) as follows:

FIRST.—That the Grantee(s) shall quietly enjoy the said premises.

SECOND.—That the Grantor(s) will forever WARRANT the title to said premises.

THIRD.—Subject to the trust and provisions of section thirteen of the lien law.

IN WITNESS WHEREOF, The said Grantor(s) have hereunto set their hands and seal the day and year first above written.

IN PRESENCE OF

Shirley O Mazocchi (U.S.)

Henry J Gianadda (U.S.)
HENRY J. GIANADDA

(U.S.)

X Peter J Casarsa (U.S.)
PETER J. CASARSA

STATE OF NEW YORK)
COUNTY OF ERIE) ss.

On this 18th day of January
Nineteen Hundred and Eighty-three

before me, the subscriber(s), personally appeared HENRY J. GIANADDA

to me personally known and known to me to be the same person described in and who executed the within instrument, and he acknowledged to me that he executed the same.

ROBERT A. DOPKINS
NOTARY PUBLIC

Robert Dopkins

FLORIDA
STATE OF NEW YORK)
COUNTY OF Cattaraugus) ss.

On this 10th day of January
Nineteen Hundred and Eighty-three

before me, the subscriber(s), personally appeared PETER J. CASARSA

to me personally known and known to me to be the same person described in and who executed the within instrument, and he acknowledged to me that he executed the same.

X Shirley O Mazocchi
NOTARY PUBLIC

NOTARY PUBLIC, STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES APR. 17, 1985
BONDED THROUGH MURSKI-ASHTON, INC.

CONVEYANCE OF ONE-HALF INTEREST IN REAL PROPERTIES
TO SCHLUMBERGER TECHNOLOGY CORPORATION

STATE OF NEW YORK :
 :
COUNTY OF ERIE :

WHEREAS, pursuant to an Assets Agreement dated as of April 13, 1984, between SCHLUMBERGER TECHNOLOGY CORPORATION ("STC"), a Texas corporation, whose principal place of business is located at 5000 Gulf Freeway, Houston, Texas 77023, and THE DOW CHEMICAL COMPANY ("Dow"), a Delaware corporation, whose principal place of business is located at 2030 Willard H. Dow Center, Midland, Michigan 48640, STC acquired from Dow an undivided one-half (1/2) interest in the "Dowell Business" as described in such Assets Agreement;

WHEREAS, the purpose of this Conveyance is for Dow to convey to STC an undivided one-half (1/2) interest in that part of the assets of the Dowell Business consisting of the real properties situated in the above-named county and described in Exhibit "A" attached hereto;


NOW, THEREFORE, in consideration of the premises and of ONE HUNDRED DOLLARS (\$100.00) cash and other good and valuable consideration, the receipt of which is hereby acknowledged, Dow does hereby GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER and DELIVER unto STC, its successors and assigns, an undivided one-half (1/2) interest in all rights, titles and interests of Dow in and to the properties which are described in Exhibit A, attached hereto and made a part hereof for all


purposes, together with the same one-half interests in all improvements situated thereon; subject, however, to any restrictions, exceptions, reservations, conditions, limitations, contracts, agreements and other matters applicable to such properties. Dow further gives and grants unto STC, its successors and assigns, an undivided one-half (1/2) interest and right in and to all covenants and warranties by others heretofore given or made in respect of such properties, together with the power and right of substitution and subrogation in and to such covenants and warranties.

FOR STC, its successors and assigns, to have and to hold an undivided one-half (1/2) interest in the above-described properties in accordance with the terms hereof.

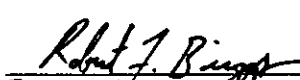
EXECUTED ON THE DATES OF THE RESPECTIVE ACKNOWLEDGMENTS
HEREOF BUT EFFECTIVE as of April 13, 1984.


THE DOW CHEMICAL COMPANY

Attest:

Lois Hoerlein
Assistant Secretary

By 
W. M. Hancock
Vice President and
General Counsel
2020 Dow Center
Midland, Michigan 57802

SCHLUMBERGER TECHNOLOGY CORPORATION

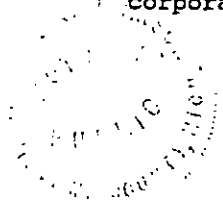
Attest:

Robert F. Briggs
Assistant Secretary

By 
Victor Grijalva
Vice President
5000 Gulf Freeway
Houston, Texas 77023

STATE OF MICHIGAN :
: COUNTY OF MIDLAND : ss.

On the 20th day of October, 1986, before me personally came W. M. Hancock, to me known, who, being by me duly sworn, did depose and say that he resides at Midland, Michigan, that he is the Vice President of THE DOW CHEMICAL COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

and several others



Cheryl A. Johnson
Notary Public, Midland County,
State of Michigan.

CHERYL A. JOHNSON
Name of Notary: NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES APRIL 25 1987

My Commission Expires: _____

STATE OF TEXAS :
: COUNTY OF HARRIS : ss.

On the 16 day of December, 1986, before me personally came Rector Gonzalez, to me known, who, being by me duly sworn, did depose and say that he resides at Houston, Harris County, Texas, that he is the Vice President of SCHLUMBERGER TECHNOLOGY CORPORATION, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.



Ann Rock
Notary Public, Harris County,
State of Texas.

Name of Notary: ANN ROCK

My Commission Expires: 5/5/87

All that tract of Parcel of Land, situated in the Town ^{OF LANCASTER} ~~of City~~ Village of Depew, County of Erie, and State of New York.

LOCATION: Depew (Erie County), New York

GRANTOR: The New York Central Railroad Company

GRANTEE: The Dow Chemical Company

DOCUMENT NAME: Deed

DATE: 6-27-60

WHERE RECORDED: Liber 6567 Page 105

DESCRIPTION: 0.72 Acre

BEGINNING at a point in the southerly line of Walden Avenue (formerly Ellicott Road) distant easterly one thousand thirty and three tenths (1,030.3) feet as measured along the same from the point of intersection of the southerly line of Walden Avenue (formerly Ellicott Road) with the Transit Line in the center of the Transit Road; and running

Thence easterly, along the southerly line of Walden Avenue (formerly Ellicott Road), four hundred seventy-two and three tenths (472.3) feet:

Thence southwesterly, one hundred thirty-nine (139) feet along a line which on its northerly side forms an angle of 24°-53' with the last preceding course;

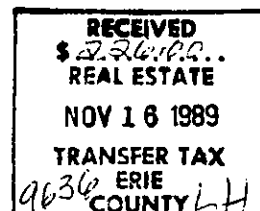
Thence southwesterly, one hundred sixty-two and three tenths (162.3) feet along a line which on its northerly side forms an angle of 163°-42' with the last preceding course;

Thence westerly, parallel with the southerly line of Walden Avenue (formerly Ellicott Road), one hundred eighty-five and seventy-five hundredths (185.75) feet, more or less, to a point in a line drawn southerly at right angles to the southerly line of Walden Avenue (formerly Ellicott Road) at the point of beginning;

Thence northerly, at right angles to the last preceding course, eighty-two and seventy-five hundredths (82.75) feet to the point and place of beginning;

CONTAINING seventy-two hundredths (0.72) of an acre of land, more or less.

Subject to an easement for the benefit of New York State Electric & Gas Corporation and New York Telephone Co. dated May 25, 1962.



All that tract of Parcel of Land, situated in Town ^{OF LANCASTER} ~~City~~ ~~Village~~ of Depew, County of Erie, and State of New York.

LOCATION: Depew, New York (Erie County)
GRANTOR: Henry J. Gianadda and Peter J. Casarsa
GRANTEE: The Dow Chemical Company
DOCUMENT NAME: Warranty Deed DATE: 1/10/83

WHERE RECORDED: Liber 9199, Page 202, Erie County, N. Y.

DESCRIPTION: 1.25 Acre +/-
ALL THAT TRACT OR PARCEL OF LAND, situate in the Village of

Depew, Town of Lancaster, County of Erie and State of New York, being parts of Lots Numbers ten (10) and twelve (12), Section ten (10), Township eleven (11), Range six (6) of the Holland Land Company's Survey, bounded and described as follows:-

BEGINNING at a point in the southerly line of New Walden Avenue, (formerly Ellicott Road), distant easterly nine hundred ninety-two and three tenths (992.3) feet as measured along the same from the point of intersection of the southerly line of New Walden Avenue, (formerly Ellicott Road) with the Transit Line in the center of the Transit Road, said point of beginning being the northeasterly corner of land conveyed by John F. C. Fanning and wife to Bernhard Fischer by deed dated September 26 1874 and recorded in the Erie County Clerk's Office in Liber 339 of Deeds at page 305, and running thence easterly along the southerly line of New Walden Avenue, (formerly Ellicott Road), thirty-eight (38) feet; thence southerly at right angles to the southerly line of New Walden Avenue, (formerly Ellicott Road), eighty-two and seventy-five hundredths (82.75) feet; thence easterly, parallel with the southerly line of New Walden Avenue, (formerly Ellicott Road) one hundred eighty-five and seventy-five hundredths (185.75) feet; thence northeasterly along a line making an exterior angle of 171° 25' with the last preceding course, one hundred sixty-two and three tenths (162.3) feet; thence southeasterly at right angles to the last preceding course, twenty-one (21) feet; thence southwesterly five hundred nineteen and one tenth (519.1) feet more or less to the northeasterly corner of that parcel of land conveyed by John Fanning, et al to The New York Central and Hudson River Railroad Company by deed dated April 6 1870 and recorded in the Erie County Clerk's Office in Liber 340 of Deeds at page 182; thence northerly three hundred thirty-four and thirty hundredths

Exhibit "A"
Page 2 of 3

U 010104 P 428

All that tract or Parcel of Land, situated in the Town ^{OF LANCASTER} ~~of Depew~~ of Depew, County of Erie, and State of New York.

LOCATION: Depew, New York PAGE TWO
GRANTOR: Henry J. Gianadda and Peter J. Casarsa
GRANTEE:
DOCUMENT NAME: DATE:

WHERE RECORDED:

DESCRIPTION:

(334.30) feet more or less to the point and place of beginning, being also along the easterly line of land conveyed to Bernard Fischer by deed dated and recorded as aforesaid, containing one and twenty-five hundredths (1.25) acres of land, more or less.

EXCEPTING AND RESERVING that part conveyed to 3307 Walden Avenue Inc. by deed recorded in Erie County Clerk's Office in Liber 7083 of Deeds at page 245.

ALSO ALL THAT TRACT OR PARCEL OF LAND situate in the Village of Depew, Town of Lancaster, County of Erie and State of New York, being part of Lot Number twelve (12), Section ten (10), Township eleven (11), Range six (6) of the Holland Land Company's survey, bounded and described as follows:-

BEGINNING at a point in the southerly line of New Walden Avenue distant nine hundred eighty-three and three tenths (983.3) feet east from the Transit Line in the center line of Transit Road said point of beginning being also nine (9) feet west of the north easterly corner of lands conveyed by John F. C. Fahning to Bernard Fischer by deed recorded in the Erie County Clerk's Office in Lib 339 of Deeds at page 305; running thence easterly along the southerly line of New Walden Avenue, nine (9) feet to the northeasterly corner of said lands conveyed to Bernard Fischer, said point being also the northwesterly corner of lands conveyed to Hentzer Construction Corporation by deed recorded in the Erie County Clerk's Office in Liber 7033 of Deeds at page 463; running thence southerly for an exterior angle of 102° 06' and along the west line of lands conveyed to Hentzer Construction Corporation, forty-two and nine four hundredths (42.94) feet to their intersection with a line drawn at right angles from the point of beginning; running thence northerly along said right angle line, forty-one and ninety-eight hundredths (41.98) feet to the place of beginning.

This instrument prepared by:

Carl Hendrix
Post Office Box 3387
Houston, Texas 77253-3387

FILED

1983 NOV 16 PM 3:27

ERIE COUNTY
CLERK'S OFFICE

mail *

Deed

The Home Chemical Company

vs
The
Bachman Technology Corporation

373

* Donald Bachman, Inc.
P.O. Box 4378 TX 77210
Houston
attn: Marya Smith

STATE OF NEW YORK
ERIE COUNTY CLERK'S OFFICE
Recorded in Lib. 1014 Page 134
of 1 Article 101
on the 16 day of Nov
A.D., 1983 at 3:27 o'clock P.M.
and examined.

David J. ...
CLERK


1 - 26.00 -- 50

NOW, THEREFORE, in consideration of the premises and of ONE HUNDRED DOLLARS (\$100.00) cash and other good and valuable consideration, the receipt of which is hereby acknowledged, Dow and STC do hereby GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER and DELIVER unto DSI, its successors and assigns, all right, title and interest of Dow and STC in and to the properties which are described in Exhibit A, attached hereto and made a part hereof for all purposes, together with the same interest in all improvements situated thereon; subject, however, to any restrictions, exceptions, reservations, conditions, limitations, contracts, agreements and other matters applicable to such properties. Dow and STC further give and grant unto DSI, its successors and assigns, all rights in and to all covenants and warranties by others heretofore given or made in respect of such properties, together with the power and right of substitution and subrogation in and to such covenants and warranties.

FOR DSI, its successors and assigns, to have and to hold the above-described properties in accordance with the terms hereof.

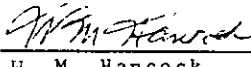
EXECUTED ON THE DATES OF THE RESPECTIVE ACKNOWLEDGMENTS HEREOF BUT EFFECTIVE as of April 13, 1984.

Attest:


Lois J. Hoerlein
Assistant Secretary

THE DOW CHEMICAL COMPANY

By


W. M. Hancock
Vice President and
General Counsel
2020 Dow Center
Midland, Michigan 57802

-2-

U 010104 P 432

Attest:

Robert F. Briggs
Robert F. Briggs
Assistant Secretary

SCHLUMBERGER TECHNOLOGY CORPORATION

By [Signature]
Victor Grijalva Vice President
5000 Gulf Freeway
Houston, Texas 77023

DOWELL SCHLUMBERGER INCORPORATED

By [Signature]
Vice President
J. D. Callison
Executive Vice-President
1155 North Dairy Ashford, #600
Houston, Texas 77079

Attest:

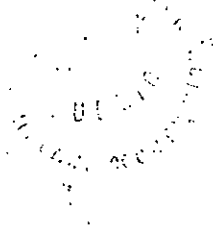
Joan M. Payton
Joan M. Payton Secretary
Assistant Secretary

RECEIVED
\$ 14,000.
REAL ESTATE
NOV 16 1989
TRANSFER TAX
9637 ERIE
COUNTY L.H.

STATE OF MICHIGAN :
:
COUNTY OF MIDLAND : ss.

On the 20th day of October, 1986, before me personally came A. M. Hancock, to me known, who, being by me duly sworn, did depose and say that he resides at 7700 Laurel, Michigan, that he is the Vice President of THE DOW CHEMICAL COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

*deed
Hancock
Hancock*



Charles A. Johnson
Notary Public, Midland County,
State of Michigan.

CHARLES A. JOHNSON
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES APRIL 26, 1987

Name of Notary: _____
My Commission Expires: _____

STATE OF TEXAS :
:
COUNTY OF HARRIS : ss.

On the 16 day of December, 1986, before me personally came Victor Hernandez to me known, who, being by me duly sworn, did depose and say that he resides at Houston, Harris County, Texas, that he is the Vice President of SCHLUMBERGER TECHNOLOGY CORPORATION, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

Ann Pek
Notary Public, Harris County,
State of Texas.

Name of Notary: ANN PEK

My Commission Expires: 5/8/87

All that tract or Parcel of Land, situated in the Town ^{OF LANCASTER, VILLAGE} ~~of City~~ of Depew, County of Erie, and State of New York.

LOCATION: Depew (Erie County), New York

GRANTOR: The New York Central Railroad Company

GRANTEE: The Dow Chemical Company

DOCUMENT NAME: Deed

DATE: 6-27-60

WHERE RECORDED: Liber 6567 Page 105

DESCRIPTION: *0.72 Acre*

BEGINNING at a point in the southerly line of Walden Avenue (formerly Ellicott Road) distant easterly one thousand thirty and three tenths (1,030.3) feet as measured along the same from the point of intersection of the southerly line of Walden Avenue (formerly Ellicott Road) with the Transit Line in the center of the Transit Road; and running

Thence easterly, along the southerly line of Walden Avenue (formerly Ellicott Road), four hundred seventy-two and three tenths (472.3) feet;

Thence southwesterly, one hundred thirty-nine (139) feet along a line which on its northerly side forms an angle of 24°-53' with the last preceding course;

Thence southwesterly, one hundred sixty-two and three tenths (162.3) feet along a line which on its northerly side forms an angle of 163°-42' with the last preceding course;

Thence westerly, parallel with the southerly line of Walden Avenue (formerly Ellicott Road), one hundred eighty-five and seventy-five hundredths (185.75) feet, more or less, to a point in a line drawn southerly at right angles to the southerly line of Walden Avenue (formerly Ellicott Road) at the point of beginning;

Thence northerly, at right angles to the last preceding course, eighty-two and seventy-five hundredths (82.75) feet to the point and place of beginning;

CONTAINING seventy-two hundredths (0.72) of an acre of land, more or less.

Subject to an easement for the benefit of New York State Electric & Gas Corporation and New York Telephone Co. dated May 25, 1962.

All that tract or Parcel of Land, situated in the Town of ^{OF LANCASTER} ~~City~~ ^{VILLAGE} of Depew, County of Erie, and State of New York.

LOCATION: Depew, New York (Erie County)
GRANTOR: Henry J. Gianadda and Peter J. Casarsa
GRANTEE: The Dow Chemical Company
DOCUMENT NAME: Warranty Deed DATE: 1/10/83
WHERE RECORDED: Liber 9199, Page 202, Erie County, N. Y.

DESCRIPTION: 1.25 Acre +/-

ALL THAT TRACT OR PARCEL OF LAND, situate in the Village of Depew, Town of Lancaster, County of Erie and State of New York, being parts of Lots Numbers ten (10) and twelve (12), Section ten (10), Township eleven (11), Range six (6) of the Holland Land Company's Survey, bounded and described as follows:-

BEGINNING at a point in the southerly line of New Walden Avenue, (formerly Ellicott Road), distant easterly nine hundred ninety-two and three tenths (992.3) feet as measured along the same from the point of intersection of the southerly line of New Walden Avenue, (formerly Ellicott Road) with the Transit Line in the center of the Transit Road; said point of beginning being the northeasterly corner of land conveyed by John F. C. Fahning and wife to Bernhard Fischer by deed dated September 28 1874 and recorded in the Erie County Clerk's Office in Liber 339 of Deeds at page 305, and running thence easterly along the southerly line of New Walden Avenue, (formerly Ellicott Road), thirty-eight (38) feet; thence southerly at right angles to the southerly line of New Walden Avenue, (formerly Ellicott Road), eighty-two and seventy-five hundredths (82.75) feet; thence easterly, parallel with the southerly line of New Walden Avenue, (formerly Ellicott Road) one hundred eighty-five and seventy-five hundredths (185.75) feet; thence northeasterly along a line making an exterior angle of 171° 25' with the last preceding course, one hundred sixty-two and three tenths (162.3) feet; thence southeasterly at right angles to the last preceding course, twenty-one (21) feet; thence southwesterly five hundred nineteen and one tenth (519.1) feet more or less to the northeasterly corner of that parcel of land conveyed by John Fahning, et al to The New York Central and Hudson River Railroad Company by deed dated April 6 1870 and recorded in the Erie County Clerk's Office in Liber 340 of Deeds at page 152; thence northerly three hundred thirty-four and thirty hundredths

Exhibit "A"

Page 2 of 4 | 010104 P 436

All that tract or Parcel of Land, situated in the Town ^{OF LANCASTER} ~~of Depew~~, Village of Depew, County of Erie, and State of New York.

LOCATION: Depew, New York PAGE TWO
GRANTOR: Henry J. Gianadda and Peter J. Casarsa
GRANTEE:
DOCUMENT NAME: DATE:

WHERE RECORDED:

DESCRIPTION:

(334.30) feet more or less to the point and place of beginning, being also along the easterly line of land conveyed to Bernard Fischer by deed dated and recorded as aforesaid, containing one and twenty-five hundredths (1.25) acres of land, more or less.

EXCEPTING AND RESERVING that part conveyed to 3307 Walden Avenue Inc. by deed recorded in Erie County Clerk's Office in Liber 7083 of Deeds at page 245.

ALSO ALL THAT TRACT OR PARCEL OF LAND situate in the Village of Depew, Town of Lancaster, County of Erie and State of New York, being part of Lot Number twelve (12), Section ten (10), Township eleven (11), Range six (6) of the Holland Land Company's survey, bounded and described as follows:-

BEGINNING at a point in the southerly line of New Walden Avenue distant nine hundred eighty-three and three tenths (983.3) feet east from the Transit Line in the center line of Transit Road said point of beginning being also nine (9) feet west of the north easterly corner of lands conveyed by John F. C. Fanning to Bernha Fischer by deed recorded in the Erie County Clerk's Office in Lib 339 of Deeds at page 305; running thence easterly along the south line of New Walden Avenue, nine (9) feet to the northeasterly corner of said lands conveyed to Bernard Fischer, said point being also the northwesterly corner of lands conveyed to Henter Construction Corporation by deed recorded in the Erie County Clerk's Office in Liber 7033 of Deeds at page 403; running thence southerly for an exterior angle of 102° 06' and along the west line of lands conveyed to Henter Construction Corporation, forty-two and nine four hundredths (42.94) feet to their intersection with a line drawn at right angles from the point of beginning; running thence northerly along said right angle line, forty-one and ninety-eight hundredths (41.98) feet to the place of beginning.

STATE OF TEXAS :
COUNTY OF HARRIS : ss.

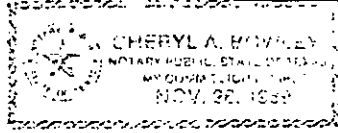
On the 22 day of December, 1986, before me personally came J.D. CALLISON, to me known, who, being by me duly sworn, did depose and say that he resides at HOUSTON, TEXAS (HARRIS COUNTY), that he is the Vice President of DOWELL SCHLUMBERGER INCORPORATED, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

Cheryl A. Bowley
Notary Public, Harris County,
State of Texas.

Name of Notary: _____

My Commission Expires: _____

FILED
1986 NOV 19 AM 3 28
CLERK'S OFFICE
HARRIS COUNTY



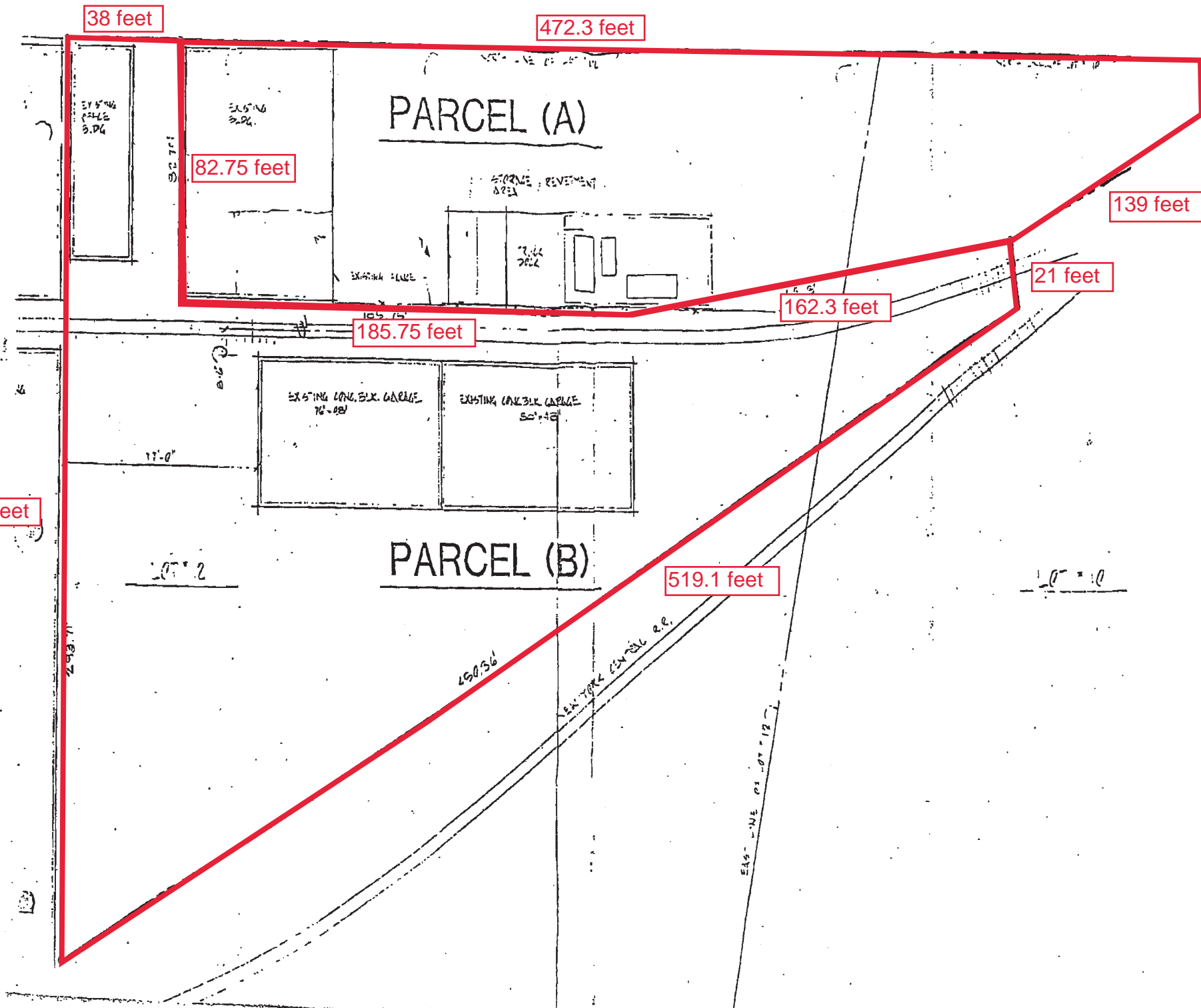
This instrument prepared by:

Carl Hendrix
Post Office Box 3387
Houston, Texas 77253-3387

Read
Tide Detergent
Company
Schlumberger
Technology Corporation
* Dowell Schlumberger
Incorporated
P.O. Box 4378
Houston TX 77210
attn: Mary G. Smith

STATE OF NEW YORK
CLERK'S OFFICE
Records Unit
at 10:00 Page 431
on the 16 day of NOV
A.D. 1986, at 3:28 o'clock P.
and examined.
David J. Swartz
CLERK

1 - 29.00 - 50



Appendix B
Declaration of Covenants and
Restrictions

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT, made the 29th day of April 2005, by Schlumberger Technology Corporation, a Texas Corporation having an office at 300 Schlumberger Drive, Sugar Land, Texas 77478:

FILED

JUN 22 2005

WHEREAS, the former Dowell Facility Site is the subject of a Voluntary Agreement ("Agreement"), executed by Commissioner John P. Cahill, New York State Department of Environmental Conservation (the "Department"), as part of the Department's Voluntary Cleanup Program, namely that parcel of real property located at 3311-3315 Walden Avenue in the Town of Depew, New York, County of Erie, which is part of lands conveyed by Dow Chemical Company to Schlumberger Technology Corporation ("Schlumberger") by deed dated April 13, 1984 and recorded in the Erie County Clerk's Office on November 16, 1989 in Book 010104 of Deeds at Page 433 and being more particularly described in Appendix "A," attached to this declaration and made a part hereof, and hereinafter referred to as "the Property"; and

ERIE COUNTY
CLERK'S OFFICE

WHEREAS, the Department approved a remedy to eliminate or mitigate all significant threats to the environment presented by the contamination disposed at the Property and such remedy requires that the Property be subject to restrictive covenants.

NOW, THEREFORE, Schlumberger, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions, is as shown on a map attached to this declaration as Appendix "B" and made a part hereof, and consists of the property described in the deeds attached hereto at Appendix "A".

Second, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, there shall be no construction, use or occupancy of the Property that results in the disturbance or excavation of the Property, which threatens the integrity of the soil cover, or which results in unacceptable human exposure to contaminated soils.

Third, the owner of the Property shall be responsible for implementation of the Operation and Maintenance Plan as stipulated in Section 7.0 - Operation and Maintenance Plan located on page 7-1 of the "Remedial Action Report, for the Former Dowell facility 3311-3315 Walden Avenue, Depew, New York, Dated July 2004, authored by URS Corporation or implement any modifications to the Operation and Maintenance Plan after obtaining written approval of the Relevant Agency.

Fourth, the owner of the Property shall prohibit the Property from ever being used for purposes other than for restricted industrial use without the express written waiver of such prohibition by the Relevant Agency.

Fifth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Relevant Agency.

Sixth, the owner of the Property shall continue in full force an effect, the prohibition against uses other than restricted commercial and/or industrial uses, and shall assure that any requirements stipulated in the Operation and Maintenance Plan, remains as institutional and engineering controls required under the Agreement, and shall continue to implement and annually report on the status, results and effectiveness of the operation, monitoring and maintenance requirements to the Relevant Agency unless the owner first obtains permission to discontinue such controls from the Relevant Agency.

Seventh, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner, and its successors and assigns, consents to enforcement by the Relevant Agency of the prohibitions and restrictions that Paragraph X of the Agreement requires to be recorded, and hereby covenants not to contest the authority of the Relevant Agency to seek enforcement.

Eighth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

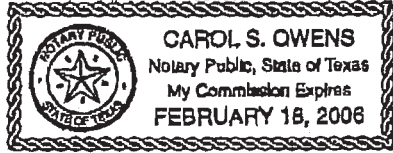
SCHLUMBERGER TECHNOLOGY CORPORATION

Dated: 04-29-05

By: 
John Yearwood, President

STATE OF TEXAS)
COUNTY OF FORT BEND) ss.:

On this 29th day of April 2005, before me, the undersigned, a Notary Public in and for said State, personally appeared John Yearwood, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.



Carol S. Owens

Notary Public

CONVEYANCE OF REAL PROPERTIES

IN FAVOR OF SCHLUMBERGER INCORPORATED

STATE OF NEW YORK :
COUNTY OF TRAVIS :

WHEREAS, pursuant to an Assets Agreement dated as of April 13, 1984, SCHLUMBERGER TECHNOLOGY CORPORATION ("STC"), a Texas corporation, whose principal place of business is located at 5800 Gulf Freeway, Houston, Texas 77023, acquired from THE DOW CHEMICAL COMPANY ("DOW"), a Delaware corporation, whose principal place of business is located at 2030 Willard H. Dow Center, Midland, Michigan 48640, an undivided one-half (1/2) interest in the "Dowell Business" as described in such Assets Agreement, including certain real properties situated in the above-named county and described in Exhibit "A" attached hereto;

WHEREAS, Dow and STC agreed in a Subscription Agreement, dated as of April 13, 1984, that each would transfer its one-half interest in the Dowell Business, as previously acquired under the Assets Agreement, to Dowell Schlumberger Incorporated ("DSI"), a Delaware corporation, now located at 1155 North Dairy Ashford, Suite 600, Houston, Texas, 77078;

WHEREAS, pursuant to such Subscription Agreement, Dow and STC now wish to convey to DSI their respective corporations' one-half interest to that part of the assets of the Dowell Business consisting of real properties located in the above-named county and described in Exhibit "A" attached hereto;

NOW, THEREFORE, in consideration of the premises and of ONE HUNDRED DOLLARS (\$100.00) cash and other good and valuable consideration, the receipt of which is hereby acknowledged, Dow and STC do hereby GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER and DELIVER unto DSI, its successors and assigns, all right, title and interest of Dow and STC in and to the properties which are described in Exhibit A, attached hereto and made a part hereof for all purposes, together with the same interest in all improvements situated thereon; subject, however, to any restrictions, exceptions, reservations, conditions, limitations, contracts, agreements and other matters applicable to such properties. Dow and STC further give and grant unto DSI, its successors and assigns, all rights in and to all covenants and warranties by others heretofore given or made in respect of such properties, together with the power and right of substitution and subrogation in and to such covenants and warranties.

FOR DSI, its successors and assigns, to have and to hold the above-described properties in accordance with the terms hereof.

EXECUTED ON THE DATES OF THE RESPECTIVE ACKNOWLEDGMENTS HEREOF BUT EFFECTIVE as of April 13, 1944.

THE DOW CHEMICAL COMPANY

Attest:

John J. Egarlala
John J. Egarlala
Assistant Secretary

By *E. M. Hancock*
E. M. Hancock
Vice President and
General Counsel
2025 Dow Center
Midland, Michigan 48602

SCHLUSBERGER TECHNOLOGY CORPORATION

Attest:

*Robert F. B...
Assistant Secretary*

By

[Signature]
Victor Grijoval, Vice President
5000 Quilb Freeway
Houston, Texas 77023

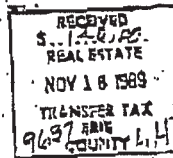
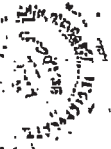
DONELL SCHLUSBERGER INCORPORATED

Attest:

Juan M. Payton
Juan M. Payton Secretary
Assistant Secretary

By

[Signature]
Vice President
J. D. Callison
Executive Vice-President
1235 North Dairy Ashford, 1400
Houston, Texas 77078



STATE OF MICHIGAN
COUNTY OF MIDLAND

On the 30th day of October, 1988, before me personally came John Hancock, to me known, who, being by me duly sworn, did depose and say that he resides at 1711 Hancock, Midland, Michigan that he is the Vice President of THE 800 CHEMICAL COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

John Hancock
Witness

Joseph D. Hancock
Notary Public, Midland County,
State of Michigan.
Name of Notary: MIDLAND COUNTY, MICHIGAN
My Commission Expires: 12/31/97

STATE OF TEXAS
COUNTY OF HARRIS

On the 14 day of December, 1988, before me personally came John Hancock, to me known, who, being by me duly sworn, did depose and say that he resides at Houston, Harris County, Texas that he is the Vice President of SCIENTIFIC TECHNOLOGY CORPORATION, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

John Hancock
Notary Public, Harris County,
State of Texas.
Name of Notary: AND PER
My Commission Expires: 5/31/97

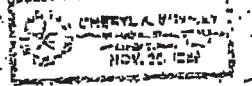
STATE OF TEXAS
COUNTY OF HARRIS

On the 12 day of December, 1986, before me personally came J.P. Callison to me known, who, being by me duly sworn, did depose and say that he resides at Houston, Texas (Harris County) that he is the vice President of POWELL SCHULBERGER INCORPORATED, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

Charles A. Bentley
Notary Public, Harris County,
State of Texas.

Name of Notary: _____

My Commission Expires: _____



NOTARY PUBLIC
STATE OF TEXAS
COMMISSION EXPIRES
NOVEMBER 1987

This instrument prepared by:
Carl Hendrix
Post Office Box 3307
Houston, Texas 77253-3307

Handwritten notes:
Dated
per Carl Hendrix
12/12/86
J.P. Callison
Vice President
Powell Schulberger
Incorporated
Houston, Texas
P.O. Box 3307
Houston, TX 77253-3307

STATE OF TEXAS
NOTARY PUBLIC OFFICE
COUNTY OF HARRIS
My Commission Expires
November 1987
Charles A. Bentley
Notary Public
Houston, Texas

All that tract or Parcel of Land, situated in the Town ^{OF LANCASTER,} ~~of City~~ ^{VILLAGE} of Depew, County of Erie, and State of New York.

LOCATION: Depew (Erie County), New York

GRANTOR: The New York Central Railroad Company

GRANTEE: The Dow Chemical Company

DOCUMENT NAME: Deed

DATE: 6-27-60

WHERE RECORDED: Liber 6567 Page 105

DESCRIPTION: *0.72 Acre*

BEGINNING at a point in the southerly line of Walden Avenue (formerly Ellicott Road) distant easterly one thousand thirty and three tenths (1,030.3) feet as measured along the same from the point of intersection of the southerly line of Walden Avenue (formerly Ellicott Road) with the Transit Line in the center of the Transit Road; and running

Thence easterly, along the southerly line of Walden Avenue (formerly Ellicott Road), four hundred seventy-two and three tenths (472.3) feet;

Thence southwesterly, one hundred thirty-nine (139) feet along a line which on its northerly side forms an angle of 24°-53' with the last preceding course;

Thence southwesterly, one hundred sixty-two and three tenths (162.3) feet along a line which on its northerly side forms an angle of 163°-42' with the last preceding course;

Thence westerly, parallel with the southerly line of Walden Avenue (formerly Ellicott Road), one hundred eighty-five and seventy-five hundredths (185.75) feet, more or less, to a point in a line drawn southerly at right angles to the southerly line of Walden Avenue (formerly Ellicott Road) at the point of beginning;

Thence northerly, at right angles to the last preceding course, eighty-two and seventy-five hundredths (82.75) feet to the point and place of beginning;

CONTAINING seventy-two hundredths (0.72) of an acre of land, more or less.

Subject to an easement for the benefit of New York State Electric & Gas Corporation and New York Telephone Co. dated May 25, 1962.

All that tract or Parcel of Land, situated in the Town of ^{OF LANCASTER} ~~City~~ of Depew, County of Erie, and State of New York.

LOCATION: Depew, New York (Erie County)

GRANTOR: Henry J. Gianadda and Peter J. Casorsa

GRANTEE: The Dow Chemical Company

DOCUMENT NAME: Warranty Deed DATE: 1/10/83

WHERE RECORDED: Liber 9199, Page 202, Erie County, N. Y.

DESCRIPTION: 1.25 Acre +/-

ALL THAT TRACT OR PARCEL OF LAND, situate in the Village of Depew, Town of Lancaster, County of Erie and State of New York, being parts of Lots Numbers ten (10) and twelve (12), Section ten (10), Township eleven (11), Range six (6) of the Holland Land Company's Survey, bounded and described as follows:-

BEGINNING at a point in the southerly line of New Walden Avenue, (formerly Ellicott Road), distant easterly nine hundred ninety-two and three tenths (992.3) feet as measured along the same from the point of intersection of the southerly line of New Walden Avenue, (formerly Ellicott Road) with the Transit Line in the center of the Transit Road; said point of beginning being the northeasterly corner of land conveyed by John F. C. Fahning and wife to Bernhard Fischer by deed dated September 28 1874 and recorded in the Erie County Clerk's Office in Liber 339 of Deeds at page 305, and running thence easterly along the southerly line of New Walden Avenue, (formerly Ellicott Road), thirty-eight (38) feet; thence southerly at right angles to the southerly line of New Walden Avenue, (formerly Ellicott Road), eighty-two and seventy-five hundredths (82.75) feet; thence easterly, parallel with the southerly line of New Walden Avenue, (formerly Ellicott Road) one hundred eighty-five and seventy-five hundredths (185.75) feet; thence northeasterly along a line making an exterior angle of 171° 25' with the last preceding course, one hundred sixty-two and three tenths (162.3) feet; thence southeasterly at right angles to the last preceding course, twenty-one (21) feet; thence southwesterly five hundred nineteen and one tenth (519.1) feet more or less to the northeasterly corner of that parcel of land conveyed by John Fahning, et al to The New York Central and Hudson River Railroad Company by deed dated April 6 1870 and recorded in the Erie County Clerk's Office in Liber 340 of Deeds at page 182; thence northerly three hundred thirty-four and thirty hundredths

Exhibit "A"

Page 2 of 4 010104 P 436

All that tract or Parcel of Land, situated in the Town of ~~Depew~~ ^{at Lancaster} Village of Depew, County of Erie, and State of New York.

LOCATION: Depew, New York PAGE TWO
GRANTOR: Henry J. Gianadda and Peter J. Casarsa
GRANTEE:
DOCUMENT NAME: DATE:

WHERE RECORDED:

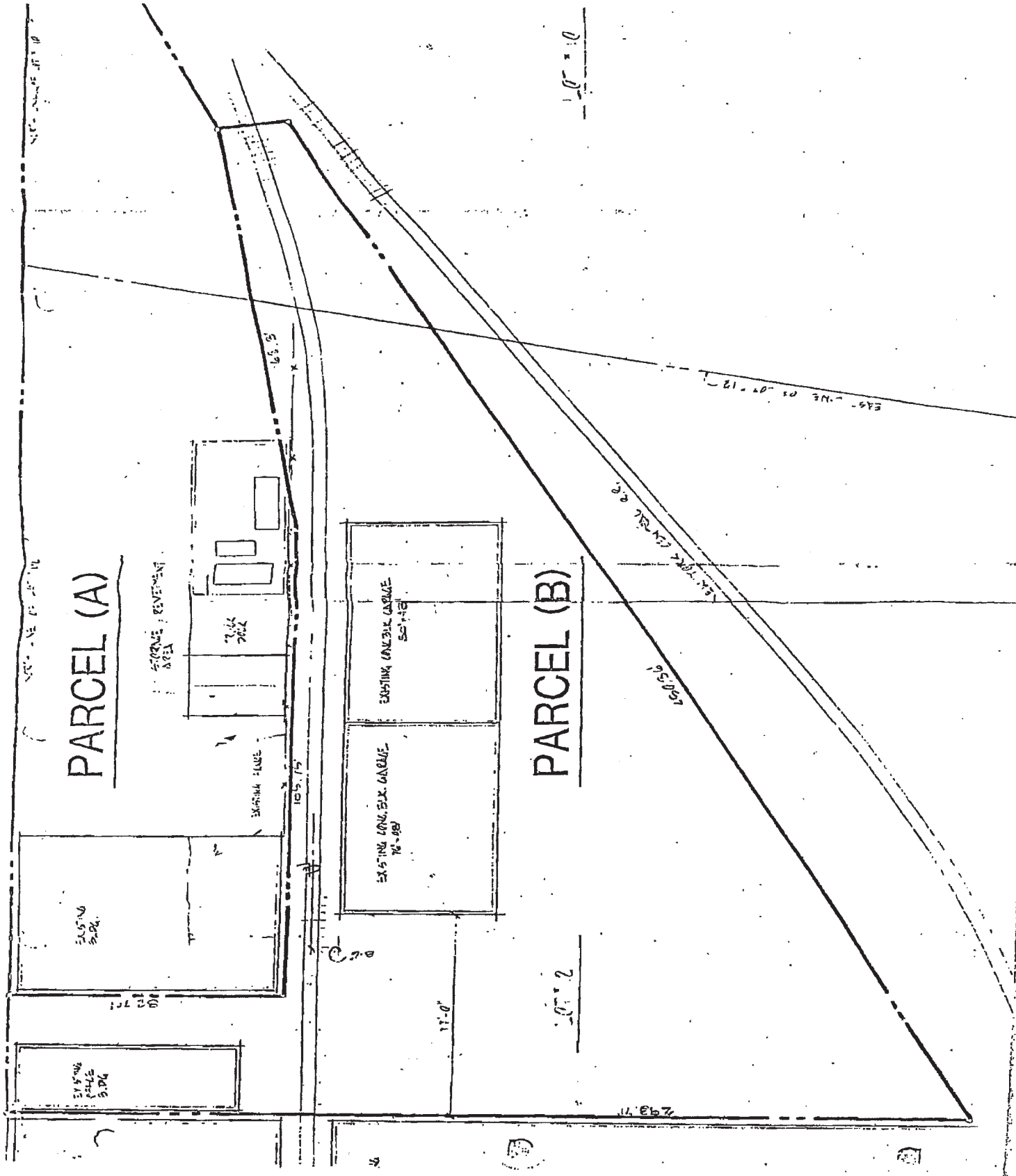
DESCRIPTION:

(334.30) feet more or less to the point and place of beginning, being also along the easterly line of land conveyed to Bernard Fischer by deed dated and recorded as aforesaid, containing one and twenty-five hundredths (1.25) acres of land, more or less.

EXCEPTING AND RESERVING that part conveyed to 3307 Walden Avenue Inc. by deed recorded in Erie County Clerk's Office in Liber 7083 of Deeds at page 245.

ALSO ALL THAT TRACT OR PARCEL OF LAND situate in the Village of Depew, Town of Lancaster, County of Erie and State of New York, being part of Lot Number twelve (12), Section ten (10), Township eleven (11), Range six (6) of the Holland Land Company's survey, bounded and described as follows:-

BEGINNING at a point in the southerly line of New Walden Avenue distant nine hundred eighty-three and three tenths (983.3) feet east from the Transit Line in the center line of Transit Road said point of beginning being also nine (9) feet west of the north easterly corner of lands conveyed by John F. C. Fanning to Bernard Fischer by deed recorded in the Erie County Clerk's Office in Lib 339 of Deeds at page 305; running thence easterly along the south line of New Walden Avenue, nine (9) feet to the northeasterly corner of said lands conveyed to Bernard Fischer, said point being also the northwesterly corner of lands conveyed to Henter Construction Corporation by deed recorded in the Erie County Clerk's Office in Liber 7035 of Deeds at page 441; running thence southerly for an exterior angle of 101° 06' and along the west line of lands conveyed to Henter Construction Corporation, forty-two and nine four hundredths (42.94) feet to their intersection with a line drawn at right angles from the point of beginning; running thence northerly along said right angle line, forty-one and ninety-eight hundredths (41.98) feet to the place of beginning.



Appendix C
List of Site Contacts

Appendix C. List of Site Contacts

Site Management Plan, NYSDEC Site Number: V00410-9

Former Dowell Facility, Depew, New York

Site Contacts	
Remedial Party Schlumberger Technology Corporation Name: Dawn Greening email: DGreening@slb.com Phone: 318-393-6480	Remedial Party The Dow Chemical Company (Dow) Name: Jim Strunk email: JStrunkjr@dow.com Phone: 215-785-7373
Remedial Party & Site Owner Dowell Schlumberger, Inc. Name: Dawn Greening email: DGreening@slb.com Phone: 318-393-6480	Remedial Party Attorney Hancock Estabrook, LLP Name: Doreen Simmons email: dsimmons@hancocklaw.com Phone: 315-565-4552
Project Professional Engineer (NY License) Name: Key Rosebrook email: Key.Rosebrook@jacobs.com Phone: 703-376-5069	Project Manager/CH2M Name: Glynn Roberts email: glynn.roberts@jacobs.com Phone: 314-335-5085
Agency/Regulatory Contacts	
NYSDEC Project Manager (DER) Name: Megan Kuczka email: megan.kuczka@dec.ny.gov Phone: 716-851-7220	NYSDOH Public Health Specialist Name: Charlotte Bethoney email: charlotte.bethoney@health.ny.gov

CH2M = CH2M HILL Engineers, Inc. (Environmental Consultant)

DER = Division of Environmental Remediation

NY = New York

NYSDEC = New York State Department of Environmental Conservation

NYSDOH = New York State Department of Health

Appendix D
Remedial Party/Owner
Responsibilities

D. RESPONSIBILITIES OF OWNER AND REMEDIAL PARTY

The responsibilities for implementing the Site Management Plan (SMP) for the Former Dowell Depew Facility (the “Site”), number. V00410-9, Voluntary Cleanup Program (VCP), are divided between the site owner and Remedial Parties, as defined below. The owner-also a remedial party, and is-currently listed as:

Dowell Schlumberger, Inc. (the “owner”)

Name: Dawn Greening

email: DGreening@slb.com

Phone: 318-393-6480

Solely for the purposes of this document and based upon the facts related to a particular site and the remedial program being carried out, the term Remedial Party (“RP”) refers to any of the following: certificate of completion holder, volunteer, applicant, responsible party, and, in the event the New York State Department of Environmental Conservation (“NYSDEC”) is carrying out remediation or site management, the NYSDEC and/or an agent acting on its behalf. The RPs are:

1. Dowell Schlumberger, Inc. (“owner” and “RP”, referenced above)

Name: Dawn Greening

email: DGreening@slb.com

Phone: 318-393-6480

2. Schlumberger Technology Corporation (“RP”)

Name: Dawn Greening

email: DGreening@slb.com

Phone: 318-393-6480

3. The Dow Chemical Company (Dow), (“RP”)

Name: Jim Strunk

email: JStrunkjr@dow.com

Phone: 215-785-7373

Nothing on this page shall supersede the provisions of an Environmental Easement, Declaration of Covenants and Restrictions, Consent Order, Consent Decree, agreement, or other legally binding document that affects rights and obligations relating to the Site.

D.1 Site Owner’s Responsibilities:

1. The owner shall follow the provisions of the SMP as they relate to future construction and excavation at the Site.

2. In accordance with a periodic timeframe determined by the NYSDEC, the owner shall periodically certify, in writing, that all Institutional Controls set forth in a Declaration of Covenants and Restrictions remain in place and continue to be complied with. The owner shall provide a written certification to the RP, upon the RP's request, in order to allow the RPs to include the certification in the site's Periodic Review Report (PRR) certification to the NYSDEC.
3. In the event the Site is delisted, the owner remains bound by the Declaration of Covenants and Restrictions and shall submit, upon request by the NYSDEC, a written certification that the Declaration of Covenants and Restrictions is still in place and has been complied with.
4. The owner shall grant access to the site to the RPs and the NYSDEC and its agents for the purposes of performing activities required under the SMP and assuring compliance with the SMP.
5. The owner is responsible for assuring the security of the remedial components located on its property to the best of its ability. In the event that damage to the remedial components or vandalism is evident, the owner shall notify the Site's RPs and the NYSDEC in accordance with the timeframes indicated in Section 1.3, *Notifications*, of this SMP.
6. In the event some action or inaction by the owner adversely impacts the Site, the owner must notify the Site's RPs and the NYSDEC in accordance with the time frame indicated in Section 1.3, *Notifications*, of this SMP and (ii) coordinate the performance of necessary corrective actions with the RP.
7. The owner must notify the RP and the NYSDEC of any change in ownership of the site property (identifying the tax map numbers in any correspondence) and provide contact information for the new owner of the site properties. 6 *New York Codes, Rules, and Regulations* (NYCCR) Part 375 contains notification requirements applicable to any construction or activity changes and changes in ownership. Among the notification requirements is the following: Sixty days prior written notification must be made to the NYSDEC. Notification is to be submitted to the NYSDEC Division of Environmental Remediation's Site Control Section. Notification requirements for a change in use are detailed in Section 1.3, *Notifications*, of the SMP. A 60-Day Advance Notification Form and Instructions are found at <http://www.dec.ny.gov/chemical/76250.html>.
8. The owner will maintain the site soil cover on behalf of the RPs. The RP remains ultimately responsible for maintaining the engineering controls.
9. In accordance with the tenant notification law, within 15 days of receipt, the owner must supply a copy of any vapor intrusion data, that is produced with respect to structures and that exceeds New York State Department of Health or Occupational Safety and Health Administration (NYSDOH) or Occupational Safety and Health Administration (OSHA) guidelines on the Site, whether produced by the NYSDEC, RP, or owner, to the tenants on the property. The owner must otherwise comply with

the tenant and occupant notification provisions of Environmental Conservation Law Article 27, Title 24.

D.2 Remedial Party Responsibilities

1. The RPs must follow the SMP provisions regarding any construction and/or excavation it undertakes at the Site.
2. The RPs shall report to the NYSDEC all activities required for-maintenance, inspections, and reporting. Such reporting includes, but is not limited to, periodic review reports and certifications, electronic data deliverables, corrective action work plans and reports, and updated SMPs.
3. Before accessing the site property to undertake a specific activity, the RPs shall provide the owner advance notification that shall include an explanation of the work expected to be completed. The RPs shall provide to (i) the owner, upon the owner's request, (ii) the NYSDEC, and (iii) other entities, if required by the SMP, a copy of any data generated during the site visit and/or any final report produced.
4. If the NYSDEC determines that an update of the SMP is necessary, the RPs shall update the SMP and obtain final approval from the NYSDEC. Within 5 business days after NYSDEC approval, the RPs shall submit a copy of the approved SMP to the owner.
5. The RP shall notify the NYSDEC and the owner of any changes in RPs ownership and/or control and of any changes in the party/entity responsible for the maintenance, and evaluation of the condition and effectiveness of and reporting with respect to any engineering control. The RPs shall provide contact information for the new party/entity. Such activity constitutes a Change of Use pursuant to 375-1.11(d) and requires 60-days prior notice to the NYSDEC. A 60-Day Advance Notification Form and Instructions are found at <http://www.dec.ny.gov/chemical/76250.html>.
6. The RP shall notify the NYSDEC of any damage to or modification of the soil cover as required under Section 1.3 - Notifications of the SMP.
7. Prior to a change in use that impacts the soil cover or requirements and/or responsibilities for implementing the SMP, the RPs shall submit to the NYSDEC for approval an amended SMP.
8. Any change in use, change in ownership, change in site classification (e.g., delisting), reduction or expansion of remediation, and other significant changes related to the site may result in a change in responsibilities and, therefore, necessitate an update to the SMP and/or updated legal documents. The RPs shall contact the Department to discuss the need to update such documents.

Change in RP ownership and/or control and/or site ownership does not affect the RP's obligations with respect to the site unless a legally binding document executed by the NYSDEC releases the RPs of their obligations.

Future site owners and RPs and their successors and assigns are required to carry out the activities set forth above.

Appendix E

Boring Logs

PROJECT NAME D^s- Depew NY PROJECT NO. D07531
 LOCATION East of MW-3 GEOLOGIST DNM
 BY DNM DRILLING CONTRACTOR MAXIM TECH. DRILLER Phil Shinn
 DATE _____ DRILLING METHOD HSA RIG TYPE CME-75
 CHK BY _____ DRILLING START DATE 11/2/97 DRILLING COMPLETION DATE 11/2/97
 DATE _____ SURFACE ELEVATION _____ STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OWA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
0	SS1	12	5	Loose, Brown, Coarse <u>GRAVEL</u> , Little silt, Moist to Wet	Ⓣ				
			6						
2	SS2	21	8	Medium stiff, Brown-Gray <u>CLAY</u> , Some silt, Orange-Brown Mottles, Moist HS - 0 ppm	CL				
			8						
4	SS3	14	8	Very stiff, Brown, <u>SILT</u> , Some Clay, Orange-Brown and Black Mottles, Moist, HS - 0 ppm	ML				
			15						
			23						
6	SS4	22	17	Very stiff, Brown <u>SILT</u> , Some Clay, Trace Gray Mottles, Moist, HS - 0.9 ppm	ML				Laboratory Sample: DSD-SB01-SS0406
			13						
			18						
8	SS5	13	36	Hard, Brown <u>SILT</u> , Some Clay, Trace Gray Mottles, Moist, HS - 0.9 ppm	ML				
			35						
			39						
10	SS6	20	40	Very stiff, Brown <u>SILT</u> , Some Clay, orange-Brown Mottles, Moist HS - 0 ppm	ML				
			10						
			16						
12	SS7	21	21	Stiff, Brown-Gray, <u>SILT and CLAY</u> , Moist, HS - 0 ppm	ML- CL				
			11						
			14						
14	SS7	21	14	Very stiff, Brown-Gray, <u>CLAY</u> , Some silt, Moist to Wet, HS 0 ppm	CL				
			19						
			15						

ADDITIONAL REMARKS
 HS - Headspace Analysis (PID - 11.3 eV Lamp) (ppm)



PROJECT NAME DS-Depew, NY

PROJECT NO. DD7531

LOCATION EAST of MW-3

GEOLOGIST DNM

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
14	SS8	23	3	Medium Stiff, Gray, <u>SILT</u> and <u>CLAY</u> , Trace Fine Gravel, Moist to Wet HS 0 ppm	ML- CL				
			5						
			6						
			7						
16	SS9	24	11	Stiff, Gray, <u>CLAY</u> , Some Silt, Trace Fine Gravel, Wet to Saturated HS 0 ppm	CL				
			8						
			12						
			16						
18	SS10	18	2	Stiff, Gray, <u>CLAY</u> , Some Silt, Trace Fine Gravel, 1/2" Gravel in shoe, Saturated, HS 0 ppm	CL				
			6						
			9						
			11						
20				20B = 20.0'					

ADDITIONAL
REMARKS
Boring backfilled w/ grout

PROJECT NAME DSD - Depew NY PROJECT NO. D07531
 LOCATION Southeast of MW3 GEOLOGIST DNM
 BY DNM DRILLING CONTRACTOR Maxim Tech DRILLER Paul Shinn
 DATE _____ DRILLING METHOD HSA RIG TYPE CM2-75
 CHK BY _____ DRILLING START DATE 11/2/97 DRILLING COMPLETION DATE 11/2/97
 DATE _____ SURFACE ELEVATION _____ STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
0	SS1	13	8	Medium Dense, Brown <u>GRAVEL</u> and <u>SILT</u> , Moist	F				
			15						
			9						
			9						
2	SS2	18	10	Stiff to Very Stiff, Red-Brown, <u>SILT</u> , Little Gray in Fractures, Trace Fine Gravel, Moist, HS - 0 ppm	ML				
			11						
			22						
			25						
4	SS3	16	10	Stiff, Very Stiff, Red-Brown <u>SILT</u> , Little Clay, Gray in Some Fractures, Moist, HS - 0.8 ppm	ML				
			13						
			20						
			24						
6	SS4	20	36	Hard, Red-Brown, <u>SILT</u> , Little Clay, Trace Fine Gravel, Gray in Some Fractures, Moist, HS - 1.7 ppm	ML				Laboratory Sample: DSD-SB02-SS-0600
			36						
			35						
			35						
8	SS5	21	5	Very Stiff, Red-Brown <u>SILT</u> , Little Clay, Trace Gray in Fractures, Moist, HS - 0.4 ppm	ML				
			12						
			18						
			19						
10	SS6	20	8	Very Stiff, Gray-Brown <u>SILT</u> , Some Clay, Trace Fine Gravel, Trace Orange-Brown Mottles, Moist, HS - 0 ppm	ML				
			15						
			18						
			22						
12	SS7	23	20	Very Stiff to Stiff, Gray-Brown <u>CLAY</u> , Little <u>SILT</u> , Trace Fine Gravel, Trace Orange-Brown Mottles, Moist to Wet HS - 0 ppm	CL				
			18						
			12						
			14						
14									

ADDITIONAL REMARKS HS - Headspace Analysis (11.8 eV Lamp) (ppm)



PROJECT NAME DS- Depew NY

PROJECT NO. DD7531

LOCATION Southeast of MW-3

GEOLOGIST JNM

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
14	SS8	23	3	Soft to Medium Stiff, Brown-Gray, <u>CLAY</u> , Little Silt, Trace to Little Fine Gravel, Moist to Wet, HS 0ppm	CL				
			3						
			5						
			6						
16	SS9	23	9	Stiff, Gray, <u>CLAY</u> , Some Silt, Trace to Little Fine Gravel, Wet to Saturated, HS-0ppm	CL				
			10						
			12						
			14						
18	SS10	22	2	Medium Stiff to Stiff, Gray, <u>CLAY</u> , Little Silt, Trace to Little Fine to Coarse Sand and Fine Gravel, Saturated HS-0ppm	CL				
			6						
			9						
			10						
20				ΣOB = 20.0'					

ADDITIONAL
REMARKS Boring backfilled w/ grout

PROJECT NAME DS- Depew NY PROJECT NO. 007531
 LOCATION South of MW-3 GEOLOGIST DNM
 BY DNM DRILLING CONTRACTOR MAXIM Tech DRILLER Phil Shinn
 DATE _____ DRILLING METHOD HSA RIG TYPE CMZ-75
 CHK BY _____ DRILLING START DATE 11/2/97 DRILLING COMPLETION DATE 11/2/97
 DATE _____ SURFACE ELEVATION _____ STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE		VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)						
0	SS1	16	29 Medium Dense, Black-Brown, Medium to Coarse SAND, and FINE GRAVEL, Some SILT, Moist	F				
			10					
2	SS2	16	10 Stiff to Very Stiff, Red-Brown SILT, Little Clay, Little Gray in Fractures, Moist, HS-0 ppm	ML				
			12					
4	SS3	20	13 Very Stiff, Red-Brown, SILT, Little to Some Clay, Gray in some Fractures, Moist, HS-0 ppm	ML				
			15					
6	SS4	22	25 Hard, Red-Brown, SILT, Little Clay, Moist, HS-0 ppm	ML				
			42					
8	SS5	20	8 Stiff to Very Stiff, Red-Brown, SILT, Some Clay, Trace Fine Gravel, Moist, HS-0 ppm	ML				
			12					
10	SS6	23	5 Stiff to Very Stiff, Red-Brown, SILT, Some Clay, Trace Coarse Gravel, Moist, HS-0 ppm	ML				
			11					
12	SS7	23	19 Stiff, Gray-Brown CLAY and SILT, Trace Fine Gravel, Moist to Wet, HS-14 ppm	CL-ML				Laboratory Sample: DSD-SB03-SS-1214
			14					
14			11					

ADDITIONAL
REMARKS

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
14	SSB	23	3	Medium stiff, Gray-Brown <u>CLAY</u> , Some silt, Minor Gray Sandy Silt Seams, Wet to Saturated, HS-4 ppm	CL				
			4						
			5						
			6						
16	SSA	22	4	Medium stiff, Brown-Gray <u>CLAY</u> , Little silt, Trace Fine Gravel, Wet to Saturated, HS-0 ppm	CL				Laboratory Sample: DSD-SBφ3-SS-1618
			5						
			6						
			9						
18	SS10	23	6	Medium stiff to stiff, Gray-Brown <u>CLAY</u> , Some silt, Little Fine to Coarse Gravel, Trace Fine Sand, Saturated, HS-0 ppm	CL				
			8						
			11						
			10						
20				LOB = 20.0'					

ADDITIONAL
REMARKS

PROJECT NAME DS- Depew NY PROJECT NO. 007531
 LOCATION Former Acid Plant GEOLOGIST DNM
 BY DNM DRILLING CONTRACTOR MAXIM Technologies DRILLER Phil Shinn
 DATE _____ DRILLING METHOD HSA RIG TYPE CM2-75
 CHK BY _____ DRILLING START DATE 11/3/97 DRILLING COMPLETION DATE 11/3/97
 DATE _____ SURFACE ELEVATION _____ STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
0				HSA	(F)				
2	SS1	3	9 5 7 14	Medium Stiff to Stiff, Brown <u>CLAY</u> , Little Silt, Trace Gravel, Moist	CL				
4	SS2	0	28 27 27 28	No Recovery					
6	SS3	0		No Recovery	ML				
8	SS4	18	20 21 24 35	Very Stiff to Hard, Red-Brown <u>SILT</u> , Little Clay, Moist HS- 17 ppm	ML				Laboratory Sample: DSD-SB04-SS-0810
10	SS5	12	16 25 27 38	Very Stiff to Hard, Red-Brown <u>SILT</u> , Little Clay, Moist HS- 12.6 ppm	ML				
12	SS6	12	16 17 21 24	Very Stiff, Gray-Brown, <u>SILT</u> , Little Clay, Gray in Partings, Moist, HS- 5.4 ppm	ML				
14									

ADDITIONAL REMARKS
 HS- Headspace Analysis (PID-11.8 ev Lamp)

TEST BORING SB04



PROJECT NAME DS-Depew NY

PROJECT NO. 007531

LOCATION Former Acid Plant

GEOLOGIST DNM

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	GVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
14	SS7	24	8	Medium stiff, Gray-Brown, <u>CLAY</u> , Some silt, Moist to Wet HS-0 ppm	CL				Laboratory Sample: DSB-SB04-SS-1416
			7						
			5						
16	SS8	23	9	Stiff, Gray, <u>CLAY</u> , Some silt, Trace to Little Fine Gravel, Wet HS-0 ppm	CL				
			10						
			11						
18	SS9	22	10	Stiff to Very Stiff, Gray-Brown <u>CLAY</u> , Some silt, Trace to Little Fine to Coarse Gravel and Coarse Sand, Wet, HS-0 ppm	CL				
			8						
			10						
20				LOB = 20.0'					

ADDITIONAL REMARKS: Porehole Backfilled w/ Grout

PROJECT NAME DS-Depew, NY PROJECT NO. 007531
 LOCATION Former Acid Plant GEOLOGIST DNM
 BY DNM DRILLING CONTRACTOR MAXIM Technologies DRILLER Phil Shinn
 DATE _____ DRILLING METHOD HSA 4 1/4" ID RIG TYPE CM4-75
 CHK BY _____ DRILLING START DATE 11/4/97 DRILLING COMPLETION DATE 11/4/97
 DATE _____ SURFACE ELEVATION _____ STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
0	SS1	14	12	Medium Dense, Fine <u>GRAVEL</u> , Some Silt and Fine to Medium Sand	F				
			17						
2	SS2	6	7	Medium Stiff, Brown and Gray <u>SILT</u> , Little Clay, Moist, HS- 1.2 ppm	ML				
			8						
			9						
			8						
4	SS3	0	12	No Recovery	ML				
			50%						
6	SS4	15	29	Very Stiff, Red-Brown <u>SILT</u> , Little Clay, Gray in Some Fractures, Moist, HS- 29.5 ppm	ML				Laboratory Sample: DSD-SD05-SS-0608
			15						
			20						
			24						
8	SS5	19	16	Very Stiff, As Above HS- 25 ppm	ML				
			16						
			20						
10	SS6	20	8	Very Stiff, Red-Brown <u>SILT</u> , Little to Some Clay, Trace Fine Gravel, Gray in Few Fractures, Moist, HS- 33.7 ppm	ML				Laboratory Sample: DSD-SD05-SS-1012
			16						
			18						
			31						
12	SS7	22	32	Hard, Red-Brown, <u>SILT</u> , Some Clay, Orange-Brown Mottles, Trace Fine Gravel, 1/2" diameter Gravel @ 13.0', Moist to Wet, HS- 8.1 ppm	ML				
			35						
			45						
			36						

ADDITIONAL REMARKS
 HS- Headspace Analysis (PID-11.8 eV Lamp)

TEST BORING SB-05

RADIAN
INTERNATIONAL LLC

PROJECT NAME D3 - Depew NY

PROJECT NO. 207531

LOCATION Former Acid Plant

GEOLOGIST DJM

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
14	SSB	21	6	Medium stiff to stiff, Gray-Brown, Orange-Brown mottles, <u>SILT</u> , Little to some clay, Trace fine Gravel, Wet, HS - 0 ppm	ML				Laboratory Sample: DSD-SB05-SS-1416
			6						
			7						
			10						
16	SS9	20	12	Stiff to very stiff, Gray-Brown, <u>SILT</u> , Some clay, Trace to little Fine Gravel and Fine to Medium Sand, Wet, HS - 0 ppm	ML				
			9						
			13						
			17						
18	SS10	23	3	Soft to very stiff, Gray-Brown, <u>SILT</u> , Little clay, Trace to little, Fine to Medium Sand and Fine Gravel, Saturated @ 19.5'. HS - 0 ppm	ML				
			7						
			10						
			21						
20				EOB = 20.0'					

ADDITIONAL
REMARKS

Borehole backfilled w/ Grout

PROJECT NAME DS-Depew, NY

PROJECT NO. 007531

LOCATION Former Acid Plant

GEOLOGIST DNM

BY DNM

DRILLING CONTRACTOR MAXIMUM TECH.

DRILLER Phil Shinn

DATE _____

DRILLING METHOD HSA 4 1/4" ID

RIG TYPE CM2-75

CHK BY _____

DRILLING START DATE 11/4/97

DRILLING COMPLETION DATE 11/4/97

DATE _____

SURFACE ELEVATION _____

STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
0	SS1	10	9	Medium Dense, Gray and Black, <u>Fine to Coarse SAND</u> and <u>Fine to Coarse GRAVEL</u> , Little silt, Wet					
			15						
			12						
			8						
2	SS2	4	12	Loose to Medium Dense, As Above, Little Red-Brown silt, Saturated					
			2						
			9						
4	SS3	12	3	Soft to stiff, Red-Brown <u>SILT</u> , Little Clay, Gray in Fractures, Moist	ML				Laboratory Sample: <u>DSD-SB06-SS-0406</u>
			7						
			12						
6	SS4	20	14	Stiff to very stiff, Red-Brown <u>SILT</u> , Little Clay, Gray in some Fractures, Moist	ML				
			23						
			27						
			30						
8	SS5	24	10	Stiff to very stiff, Red-Brown <u>SILT</u> , Little Clay, Trace Gray in Fractures, Moist	ML				
			13						
			24						
			30						
10	SS6	15	9	Stiff to Hard, Red-Brown <u>SILT</u> , Little to some Clay, Moist	ML				
			15						
			24						
			32						
12	SS7	23	37	Hard, Red-Brown <u>SILT</u> , Some Clay, Trace Fine Gravel, Moist to Wet	ML				
			40						
			40						
			40						

ADDITIONAL
REMARKS

Borehole backfilled with bentonite-cement grout.

PROJECT NAME D5-Depew NY PROJECT NO. DD7531
 LOCATION Former Acid Plant GEOLOGIST DNM
 BY DNM DRILLING CONTRACTOR MAXIM TECH. DRILLER Phil Skinn
 DATE _____ DRILLING METHOD HSA 4 1/4" ID RIG TYPE CME-75
 CHK BY _____ DRILLING START DATE 11/4/97 DRILLING COMPLETION DATE 11/4/97
 DATE _____ SURFACE ELEVATION _____ STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
0	SS1	4	1	Very Loose, Brown, Fine <u>GRAVEL</u> , Some Fine to Coarse Sand and Silt, Moist	GM				
			2						
			1						
			3						
2	SS2	0	50 2"	No Recovery					
4	SS3	14	14	Stiff to Very Stiff, Gray-Brown <u>CLAY</u> , Little Silt, Trace Fine Gravel and Fine Sand, Wet, HS- 6.9 ppm	CL				
			24						
			23						
			22						
6	SS4	19	23	Very Stiff, Red-Brown <u>SILT</u> , Some Clay, Trace Fine Gravel, Gray in some Fractures, Moist, HS- 202 ppm	ML				
			24						
			27						
			29						
8	SS5	21	17	Stiff to Very Stiff, Red-Brown <u>SILT</u> , Little to Some Clay, Trace Fine Gravel, Moist, HS- 298 ppm	ML				Laboratory Sample: DSD-SB07-SS-0810
			13						
			17						
			9						
10	SS6	22	10	Stiff to Very Stiff, Brown, Little Orange-Brown Mottles, <u>CLAY</u> , Some Silt, Moist, HS- 179 ppm	CL				
			17						
			22						
			24						
12	SS7	24	30	Hard, Brown <u>CLAY</u> , Some Silt, Trace Fine Gravel, Moist to Wet, HS- 279 ppm	CL				
			31						
			37						
			42						

HS- Headspace Analysis (PID-11.8 ev) ppm

ADDITIONAL
REMARKS



PROJECT NAME Ds-Deplew NY

PROJECT NO. DD7531

LOCATION Former Acid Plant

GEOLOGIST DNM

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OWA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
14	SS8	23	8	Stiff to Very Stiff, Gray-Brown <u>CLAY</u> , Little Silt, Trace Fine to Coarse Sand and Fine Gravel, Wet HS - 14.9 ppm	CL				
			8						
			12						
			17						
16	SS9	21	8	Stiff to Very Stiff, Gray-Brown <u>CLAY</u> , Trace Fine to Coarse Sand and Fine Gravel, Wet, HS - 13.7 ppm	CL				
			16						
			17						
18	SS10	23	9	Stiff, Gray-Brown <u>CLAY</u> , Little Fine Gravel and Silt, Trace Fine to Coarse Sand, Wet, HS - 33.5 ppm	CL				Laboratory Sample: DSD-SB7-SS-1820
			9						
			9						
20				20B = 20.0'					

ADDITIONAL
REMARKS

Borehole backfilled w/ Bentonite-Cement Grout

PROJECT NAME DS - Depew, NY

PROJECT NO. 007531

LOCATION Former Acid Plant

GEOLOGIST DNM

BY DNM

DRILLING CONTRACTOR MAXIM Technologies

DRILLER Phil Shinn

DATE _____

DRILLING METHOD HSA 4 1/4" ID

RIG TYPE CME-75

CHK BY _____

DRILLING START DATE 11/4/97

DRILLING COMPLETION DATE 11/4/97

DATE _____

SURFACE ELEVATION _____

STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
0	SS1	12	13	Medium Dense to Loose, Black-Gray Fine to Coarse Gravel, Medium to Coarse Sand, and Silt, Moist, <u>FILL</u> HS - 0 ppm	Ⓣ				
			11						
			4						
			3						
-2	SS2	8	5	Very Loose to Loose, Black-Gray Cinders, Medium to Coarse Sand, Some Silt, Moist, <u>FILL</u> , HS-0 ppm	Ⓣ				Laboratory Sample: DSD-SB08-SS-0204
			1						
			3						
4	SS3	13	3	Soft to Stiff, Orange-Brown <u>SILT</u> , Some Clay, Trace Medium Sand, Gray in Fractures, Moist, HS-0 ppm	ML				
			4						
			6						
			13						
6	SS4	19	16	Very Stiff, Orange-Brown <u>SILT</u> , Little Clay, Gray in Fractures, Moist, HS-0 ppm	ML				Laboratory Sample: DSD-SB08-SS-0608
			16						
			21						
			20						
8	SS5	23	8	Stiff to Very Stiff, Orange-Brown <u>SILT</u> , Some Clay, Gray in Some Fractures, Moist, HS-0 ppm	ML				
			15						
			19						
			25						
10	SS6	23	8	Stiff to Very Stiff, Orange-Brown <u>SILT</u> , Some Clay, Trace Gray in Fractures, Moist, HS-0 ppm	ML				
			15						
			21						
			31						
12	SS7	8	48	Hard, As Above, HS-0 ppm	ML				
			50 1/2"						
14									

ADDITIONAL REMARKS
HS - Headspace Analysis (PID 11.8 ev Lamp) (ppm)



PROJECT NAME DS-Depew, NY
 LOCATION Former Acid Plant

PROJECT NO. 007531
 GEOLOGIST DNM

DEPTH FEET	SOIL SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	OVA READING	DEPTH (FEET)	REMARKS
	NO.	REC. (IN.)	BL/ 6"						
14	558	23	7	Medium Stiff to Very Stiff, Red-Brown CLAY, Few Orange-Brown Sandy Silt Seams, Moist to Wet, HS-0ppm	CL				
			18						
			16						
			7						
16	559	21	17	Stiff to Very Stiff, Gray-Brown SILT, Some Clay, Trace Fine to Medium Sand and Fine Gravel, Wet HS- 0 ppm	ML				
			14						
			14						
			16						
18	5510	20	15	Stiff to Very Stiff, As Above, Wet HS- 0ppm	ML				
			13						
			12						
			20						
20				LOB = 20.0'					

Borehole backfilled with Bentonite-Cement Grout

ADDITIONAL
REMARKS

RADIAN INTERNATIONAL LLC

WELL NO. MW-1

PAGE OF :

PROJECT NAME DS - Dopen

PROJECT NO. 007531

BY DNM

LOCATION _____

GEOLOGIST DNM

DATE 10/23/96

DRILLING CONTRACTOR MAXIM

DRILLER _____

CHK BY _____

DRILLING METHOD HSA w/ SS Samples

RIG TYPE CME-75

DATE _____

DRILLING START DATE 9/10/96

DRILLING COMPLETION DATE 9/10/96

SURFACE ELEVATION _____

STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE			ROCK SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	BORING CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL/ 8"	RUN (FT)	REC. (%)	ROD. (%)							
0			9				Medium Dense, Black-brown Silty <u>CINDERS</u> and Fine to Coarse Angular <u>GRAVEL</u> , Moist	F				Flushmount Protective Cover	
	SS1	4	6										
2			10				Medium Dense to Vary Loose, Fine to Medium <u>CINDERS</u> , Trace to Little Wood Frag, Crushed Sandstone, and Fine to Medium Gravel, Moist					Bentonite-Cement Grout	
	SS2	6	12										
4			3				Soft to Medium Stiff, Green-Gray Silty Clay Grading to Red-Brown <u>CLAY</u> , Trace Silt, Plant Roots, Moist					2" PVC Schedule	Riser
	SS3	12	3										
6			5				Very Stiff, Red-Brown <u>CLAY</u> , Little Silt, Gray Along Fractures, Damp	CL					
	SS4	20	14										
8			7				No RECOVERY	CL					
	SS5	0"	21										
10			21				Stiff, Red-Brown and Gray <u>CLAY</u> , Orange-Brown Staining, Little Silt, Trace Fine to Medium Gravel, Moist	CL	9/12				
	SS6	13	7										
12			8										
			12										
			13										

Well located in S.E. corner of property

ADDITIONAL
REMARKS



14415/08

DEPTH FEET	SOIL SAMPLE		ROCK SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC HEAD LEVEL (FT)	BORING CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL/ 8"	RUN (FT)	REC. (%)							
11			18			No Recovery						
	SS7	0	18									
			20									
			16									
14			5			Stiff, Red-Brown <u>CLAY</u> , Little Silt, Trace very Fine Sand and Fine to Medium Gravel, Iron-Stained, Moist				14		
	SS8	24	11									Bentonite Seal
			11									
			12									
16			13			Very Stiff, Gray-Brown <u>CLAY</u> , Little Silt, Trace to Little Fine to Medium Gravel, Trace Very Fine to Medium Sand and very Coarse Gravel Moist				17		
	SS9	22	20									
			21									
			18									Clean Filter Sand Pack
18			5			Stiff, Gray-Brown, <u>CLAY</u> , Little Silt, Trace Very Fine to Medium Sand and Fine to Medium Gravel, Moist						
	SS10	1	4									
			12									
			15									
20			3			Soft, Red-Gray <u>CLAY</u> Little Silt and Very Fine Sand, Little Fine to Medium Gravel, Moist				20		
	SS11	22	6									
			31									
			6									2" Sch 40 PVC Well Screen (0.000" slot)
22			10			Stiff, Gray-Brown <u>CLAY</u> , Little Silt and Very Fine to Fine Sand, Little Fine to Medium Gravel, 2" Sandy Gravel Seam @ 21.5', Wet						
	SS12	24	10									
			14									
			13									
24			16			Stiff, Gray-Brown <u>CLAY</u> , Some Silt, Little Fine to Medium Sand and Fine to Medium Gravel, Spoon-Wet						
	SS13	20	8									
			11									
			16									
26			10			Stiff to Hard, As Above to 27.0', Red-Brown, <u>CLAY</u> Little Silt and Fine to Medium Gravel, Moist						
	SS14	13	10									
			30									
			42									

ADDITIONAL
REMARKS

RADIAN
INTERNATIONAL

WELL NO. MW-1
PROJECT NAME DS - Depew
LOCATION Depew NY

PAGE OF
PROJECT NO. 003531
GEOLOGIST DAM

DEPTH FEET	SOIL SAMPLE			ROCK SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	BORING CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL/ 8"	RUN (FT)	REC. (%)	ROD. (%)							
28	SS15	13	41				Hard, Red-brown <u>CLAY</u> , little to some silt, little very fine to fine sand and fine to medium gravel. Moist	CL					PVC End Cap
			14										
			21										
30			100%										
							HSA Refusal @ 30.0'						

ADDITIONAL
REMARKS

RADIAN
INTERNATIONAL LLC

WELL NO. MW2

PAGE OF 2

PROJECT NAME D-Drain

PROJECT NO. 10-1-100

BY DMM

LOCATION _____

GEOLOGIST DMM

DATE 10/23/96

DRILLING CONTRACTOR Maxim Tract.

DRILLER _____

CHK BY _____

DRILLING METHOD HSA w/ SS Sampling

RIG TYPE CME-75

DATE _____

DRILLING START DATE 9/11/96

DRILLING COMPLETION DATE 9/11/96

SURFACE ELEVATION _____

STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE			ROCK SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	BORING CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL/ 6"	RUN (FT)	REC. (%)	ROD. (X)							
0	SS1	15	33 60 80 22				Very Dense, Black-Brown Medium to Coarse <u>SANDS</u> Some Fine to Coarse Sand. Little Coarse Sand, Moist					Flushmount Protective Cover	
2	SS2	8	3 3 5 7				Medium Stiff, Red-Brown. <u>CLAY</u> , Little Silt, Trace Fine Sand and Fine Gravel, Plant Roots, Wet on Top					Bentonite- Cement Grout	
4	SS3	4	33 16 18 19				Very Stiff, Red-Brown, <u>CLAY</u> , Little Silt, Trace Fine Gravel, Gray Along Some Fractures, Damp	9/12				2" 30k 40 PVC Risers	
6	SS4	14	28 28 32 36				Hard, Red-Brown <u>CLAY</u> , Trace to Little Silt, Damp						
8	SS5	20	16 19 27 47				Very Stiff to Hard, Red-brown <u>CLAY</u> , Trace Silt, Very Fine Gravel, Fine Sand, Trace Gray Mottles and Iron Staining, Damp						
10	SS6	8	30 28 20 21				Very Stiff, Red-brown <u>CLAY</u> , Little Silt, Trace Fine Gravel, Damp						

Well located in N.E. Corner of Property

ADDITIONAL
REMARKS



UN

UN

DEPTH FEET	SOIL SAMPLE			ROCK SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROBE	STATIC WATER LEVEL (FT)	BORING CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL./ft	RUN (FT)	REC. (%)	ROD. (%)							
12	SS7	24	38				Hard, Red-brown <u>CLAY</u> , Trace to Little Silt, Trace Fine Sand and Fine Gravel, Little Iron-staining, Damp to Moist				15.5		Bentonite Seal
			37										
			31										
			30										
14	SS8	0	7				No RECOVERY				15		
			11										
			10										
16	SS9	23	8				Stiff, Red-Brown, Gray-Brown <u>CLAY</u> , Little Silt and Very Fine to Medium Sand, Little Fine Gravel, Moist to Wet						Clean Filter Sand Pack
			10										
			13										
18	SS10	24	6				Medium Stiff to Stiff, Red-Brown <u>CLAY</u> , Little Silt and Very Fine to Fine Sand, Little Fine Gravel, Moist to Wet				18.3		
			6										
			10										
20	SS11	24	6				As Above w/ Coarser Gravel						2" Sch 40 PVC Well Screen (0.010" slot)
			6										
			10										
22	SS12	22	6				Medium Stiff to Stiff, Red-Brown <u>CLAY</u> , Little Fine to Medium Gravel and Silt, Little Very Fine to Medium Sand, Wet @ 23 o'						
			6										
			10										
24	SS13	0	5				No RECOVERY						
			8										
			9										
26	SS14	0	11				No RECOVERY HSA to Refusal @ 28.3'						
			13										
			50/1"										
28											28.3		PVC End Cap

ADDITIONAL REMARKS

RADIAN
INTERNATIONAL LLC

WELL NO. MW-3

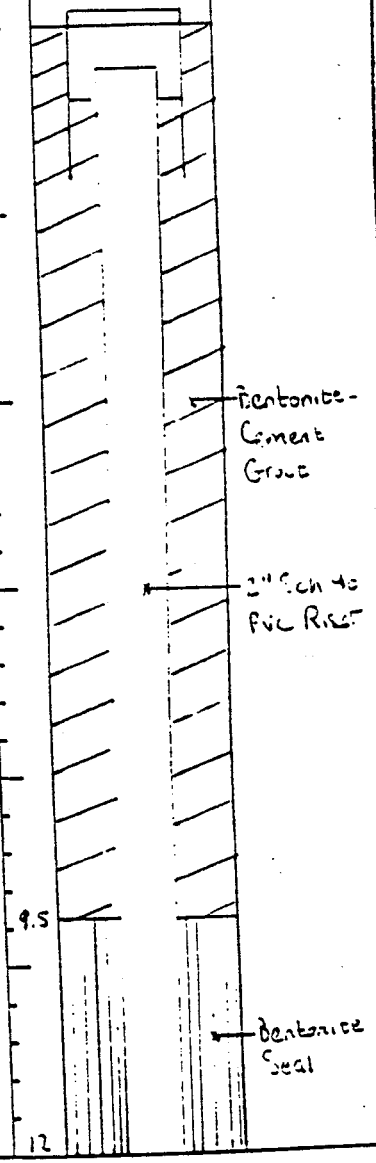
PAGE OF

BY DJM
DATE 10/23/46
CHK BY _____
DATE _____

PROJECT NAME D. v. v. v.
LOCATION _____
DRILLING CONTRACTOR Maxim Test.
DRILLING METHOD HSA w/SS Samples
DRILLING START DATE _____
SURFACE ELEVATION _____

GEOLOGIST DJM
DRILLER _____
RIG TYPE CME-75
DRILLING COMPLETION DATE _____
STICK-UP ELEVATION _____

DEPTH FEET	SOIL SAMPLE		ROCK SAMPLE		VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	BORING/ CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL./ 6"	RUN (FT)							
0					ASPHALT						
1	HSA				Black-Brown, Fine Cinders, Gravel and Sand	(F)					
2		SS1	7	4 10 20 23	Very Stiff, Red-Brown CLAY, Trace Silt, Gray Along Fractures, Damp	CL					
4		SS2	16	15 17 22 26	Very Stiff, Red-Brown, Gray Along Fractures, CLAY, Little Silt, Trace Fine Gravel, Damp	CL					
6		SS3	20	35 26 35 46	Hard, Red-Brown CLAY, Little Gray Along Fractures, Trace Silt, Very Fine Sand, and Fine Gravel, Damp	CL					
8		SS4	22	14 22 28 36	Very Stiff, Red-Brown CLAY, Trace Silt and Very Fine Sand, Trace Fine Gravel, Iron-Staining to 10', Damp	CL					
10		SS5	24	11 18 10 18	Very Stiff, Brown and Red- Brown CLAY, Little Silt, Trace Very Fine Sand and Fine Gravel, Some Iron- Staining, Damp	CL					
12											



ADDITIONAL
REMARKS

DEPTH FEET	SOIL SAMPLE		ROCK SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	BORING/ CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL/ G"	RUN (FT)	REC. (%)							
12	SS6	20	18			Very Stiff, Brown to Red-brown CLAY, little Silt, Trace Very Fine Sand and Fine Gravel, Little Iron-Staining, Moist	CL					Clean Filter Sand Pack
			17									
			16									
			21									
14	SS7	23	4			Soft to Medium Stiff, Red- Brown CLAY, some Silt, Little Very Fine to Medium Sand and Fine to Medium Gravel, Moist to Wet	CL		15			
			4									
			5									
			8									
16	SS8	23	6			Medium Stiff, Red-brown CLAY, Little to Some Silt, Little Very Fine to Medium Sand, Little Fine to Medium Gravel, Wet	CL					
			7									
			9									
			14									
18	SS9	22	4			Medium Stiff, Red-brown, CLAY, Little to Some Silt, Little Very Fine to Medium Sand, Little Fine to Medium Gravel, Wet	CL					2" Sch 40 PVC Well Screen (0.010" Silt)
			5									
			6									
			10									
20	SS10	23	4			Medium Stiff, Red-brown and Gray-brown CLAY, Little to Some Silt, Little Very Fine to Medium Sand and Gravel, Wet	CL					
			9									
			9									
			14									
22	SS11	21	6			Medium Stiff, Red-brown CLAY, some Silt, Little Very Fine to Medium Sand and Fine to Medium Gravel, Moist	CL					
			11									
			11									
			15									
24	SS12	0	6			NO RECOVERY - Coarse Gravel in Shoe	CL			25		
			9									
			10									
			15									
26	SS13	22	11			Medium Stiff, Red-brown CLAY, Little to Some Silt, Little Very Fine to Medium Sand, Little Fine to Coarse Gravel, Moist to Wet	CL					
			11									
			14									
			18									

ADDITIONAL
REMARKS

DEPTH FEET	SOIL SAMPLE			ROCK SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	BORING CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL./ S"	RUN (FT)	REC. (%)	ROD. (%)							
28	SS14	6	4 6 50/2				As Above with Weathered Limestone Fragment in Shoe. Damp to Moist						
29													

ADDITIONAL
REMARKS
Split Spoon Refusal @ 29.0'

RADIAN
INTERNATIONAL LLC

WELL NO. MW-4

PAGE OF 2

PROJECT NAME ...

PROJECT NO. ...

BY DMM

LOCATION ...

GEOLOGIST DMM

DATE 10/23/96

DRILLING CONTRACTOR MAXIM TECH

DRILLER ...

CHK BY ...

DRILLING METHOD HSA w/ S.S. Sampling

RIG TYPE CM2-75

DATE ...

DRILLING START DATE 9/13/96

DRILLING COMPLETION DATE 9/12/96

SURFACE ELEVATION ...

STICK-UP ELEVATION ...

DEPTH FEET	SOIL SAMPLE			ROCK SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	BORING/ CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL/ 6"	RUN (FT)	REC. (%)	ROD. (%)							
0							Black-Brown <u>CINDERS</u> and <u>GRAVEL</u> , Some Clay, Moist	(F)				Flushmount Protective Casing	
1							Medium Stiff to Stiff, Red- Brown <u>CLAY</u> , Little Silt, Trace Fine Sand, Gray Along Fractures, Moist	CL				Bentonite- Cement Grout	
4							Stiff to Very Stiff, Red- Brown <u>CLAY</u> , Little Silt, Trace Fine Gravel and Fine Sand, Gray Along Fractures, Damp	CL				2" Sch 40 Pvc Riser	
6							Red-Brown <u>CLAY</u>	CL					
9							Very Stiff to Hard, Red- Brown <u>CLAY</u> , Little Silt, Trace Fine Sand and Gravel, Iron-Staining, Damp	CL					
11													

ADDITIONAL
REMARKS

V. Williams

DEPTH FEET	SOIL SAMPLE			ROCK SAMPLE			VISUAL CLASSIFICATION AND REMARKS	PROFILE	STATIC WATER LEVEL (FT)	BORING CASING DIA. (IN.)	DEPTH (FEET)	WELL CONSTRUCTION DETAILS	REMARKS
	NO.	REC. (IN.)	BL/ 6"	REC. (FT)	REC. (%)	REC. (%)							
12	HSA						Red-Brown <u>CLAY</u>	CL			13		
14	SS4	12		7 8 9 13			Medium Stiff to Stiff, Red-Brown <u>CLAY</u> to 15.0'; (15'-16') Gray <u>CLAY</u> , sticky, Trace Gravel and Very Fine to Fine Sand, Moist	CL			15		Bentonite Seal
16	HSA						Gray and Gray-Brown <u>CLAY</u>	CL			18.05		
20	SS5	12		4 8 11 10			Stiff, Gray-Brown <u>CLAY</u> , Little Silt and Very Fine to Coarse Sand, Little Fine to Medium Gravel, Wet	CL					2" Sch 40 PVC Well Screen (0.075" sieve)
22	HSA						Gray-Brown <u>CLAY</u>	CL					Clean Filter Sand Pack
24	SS6	0		16 17 12 15			No Recovery	CL					
26	HSA						Gray-Brown <u>CLAY</u>	CL					
28							HSA Refusal @ 28.4'				28.69		PVC End Cap

ADDITIONAL
REMARKS




UNITS FOR 'WG

URS Corporation						GEOPROBE BORING LOG					
PROJECT: Dowell Schlumberger Site, Depew, New York						BORING NO: Sump 1-X-2					
CLIENT: Dowell Schlumberger						SHEET: 1 of 1					
BORING CONTRACTOR: Nature's Way, Inc.						PROJECT NO.: 05-00035824.00					
GROUNDWATER:						BORING LOCATION: Inside maintenance bldg					
CAS.						GROUND ELEVATION:					
DATE	TIME	LEVEL	TYPE	TYPE		Macro core			DATE STARTED: 07/12/01		
				Dia.		2"			DATE FINISHED: 07/12/01		
				Length		48"			DRILLER: S. Gingrich		
				Liner		Acetate			GEOLOGIST: T. Burmeier		
						REVIEWED BY: D. Sheppard					
DEPTH FEET	STRATA	SAMPLE			DESCRIPTION				USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL		PID (ppm)			
		1	100%	Gray	Dense	0-0.5' Concrete floor, 0.5-1' sub-base gravel		Fill	0	Moist-	
				Black	Stiff	1.0-1.5' Silty clay with fine gravel		Cl	210	Wet	
				Orange-Brown		1.5-4.5' Clayey silt		ML	4-8		
4				End of boring at 4.5 feet							
Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly.						PROJECT NO. 05-00035824.00					
						BORING NO. Sump 1-X-2					

URS Corporation											GEOPROBE BORING LOG			
PROJECT: Dowell Schlumberger Site, Depew, New York											BORING NO.: Sump 1-X-1			
CLIENT: Dowell Schlumberger											SHEET: 1 of 1			
BORING CONTRACTOR: Nature's Way, Inc.											PROJECT NO.: 05-00035824.00			
GROUNDWATER:											ORING LOCATION: Inside maintenance bldg			
											GROUND ELEVATION:			
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE	DATE STARTED:	07/12/01				
				Dia.		Macro core			DATE FINISHED:	07/12/01				
				Length		2"			DRILLER:	S. Gingrich				
				Liner		48"			GEOLOGIST:	T. Burmeier				
						Acetate			REVIEWED BY:	D. Sheppard				
				SAMPLE				DESCRIPTION						
DEPTH FEET	STRATA	"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL			USCS	REMARKS				
		1	100%	Gray	Dense	0-0.5': Concrete floor, 0.5-1' sub-base gravel			Fill	0	Moist-			
				Black	Stiff	1.0-1.5' Silty clay with fine gravel			CL	220	Wet			
4				Orange-Brown	1.5-4.5' Clayey silt			ML	3					
					End of boring at 4.5 feet									
Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push											PROJECT NO.		05-00035824.00	
Assembly. Sampled 1-1.5' interval for VOC analysis											BORING NO.		Sump 1-X-1	

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York						BORING NO: Sump 2-X-1			
CLIENT: Dowell Schlumberger						SHEET: 1 of 1			
BORING CONTRACTOR: Nature's Way, Inc.						PROJECT NO.: 05-00035824.00			
GROUNDWATER:						BORING LOCATION: Inside maintenance bldg.			
DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:	
					Macro core			DATE STARTED:	07/12/01
					Dia.	2"		DATE FINISHED:	07/12/01
					Length	48"		DRILLER:	S. Gingrich
					Liner	Acetate		GEOLOGIST:	T. Burmeier
								REVIEWED BY:	D. Sheppard
SAMPLE					DESCRIPTION				
DEPTH FEET	STRATA	"S" NO.	RECOVERY %	COLOR	CONSISTENCY	MATERIAL		USCS	REMARKS
				HARDNESS					PID (ppm)
		1	88%	Gray	Dense	0-0.5': Concrete floor, 0.5-1' sub-base gravel and sand		Fill	0 Moist
				Yellow Brn.	Stiff	1.0-2.0' Silty clay grading to...		CL	1500+
4				Orange-Brown		2.0-4.5' Clayey silt		ML	0 Slightly Moist
						End of boring at 4.5 feet			
Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 1.5-2' interval for VOC analysis						PROJECT NO. 05-00035824.00			
						BORING NO. Sump 2-X-1			

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York SHEET: 1 of 1
 CLIENT: Dowell Schlumberger PROJECT NO.: 05-00035824.00
 BORING CONTRACTOR: Nature's Way, Inc. BORING LOCATION: Inside maintenance bldg.

GROUNDWATER: CAS. SAMPLER CORE TUBE GROUND ELEVATION:
 DATE TIME LEVEL TYPE TYPE Macro core DATE STARTED: 07/12/01
 Dia. 2" DATE FINISHED: 07/12/01
 Length 48" DRILLER: S. Gingrich
 Liner Acetate GEOLOGIST: T. Burmeier
 REVIEWED BY: D. Sheppard

SAMPLE						DESCRIPTION			
DEPTH FEET	STRATA	"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL	USCS	REMARKS	
								PID (ppm)	
		1	88%	Gray	Dense	0-0.5' Concrete floor, 0.5-1' sub-base gravel and sand	Fill	0	Moist
					Stiff	1.0-2.0' Silty clay grading to...	CL	300+	
4				Yellow Brn. Orange-Brown		2.0-4.5' Clayey silt	ML	0	Slightly Moist
End of boring at 4.5 feet									

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly.
 PROJECT NO. 05-00035824.00
 BORING NO. Sump 2-X-2

URS Corporation

GEOPROBE BORING LOG

BORING NO: Sump 3-X-1

PROJECT: Dowell Schlumberger Site, Depew, New York SHEET: 1 of 1
 CLIENT: Dowell Schlumberger PROJECT NO.: 05-00035824.00
 BORING CONTRACTOR: Nature's Way, Inc. BORING LOCATION: Inside maintenance bldg.

GROUNDWATER: CAS. SAMPLER CORE TUBE GROUND ELEVATION:
 DATE TIME LEVEL TYPE TYPE Macro core DATE STARTED: 07/12/01
 Dia. 2" DATE FINISHED: 07/12/01
 Length 48" DRILLER: S. Gingrich
 Liner Acetate GEOLOGIST: T. Burmeier
 REVIEWED BY: D. Sheppard

DEPTH FEET	STRATA	"S" NO.	RECOVERY %	COLOR	SAMPLE		DESCRIPTION	USCS	REMARKS		
					TYPE	HARDNESS			MATERIAL	PID (ppm)	
		1	88%	Gray	Dense	0-0.5' Concrete floor, 0.5-1' sub-base gravel and sand	Fill	0	Moist		
				Brown	Stiff	1.0-1.5' Fine sand	CL	35			
				Yellow Brn.		1.5-2.5' Clayey silt with fine sand	ML	8	Slightly		
4				Reddish-Brown		2.5-4.5 Clayey silt		0	Moist		
						End of boring at 4.5 feet					

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. PROJECT NO. 05-00035824.00
 BORING NO. Sump 3-X-1

URS Corporation							GEOPROBE BORING LOG			
PROJECT: Dowell Schlumberger Site, Depew, New York							BORING NO: Sump 3-X-2			
CLIENT: Dowell Schlumberger							SHEET: 1 of 1			
BORING CONTRACTOR: Nature's Way, Inc.							PROJECT NO.: 05-00035824.00			
GROUNDWATER:							BORING LOCATION: Inside maintenance bldg.			
CAS.							GROUND ELEVATION:			
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE	DATE STARTED:	07/12/01
				Dia.		Macro core			DATE FINISHED:	07/12/01
				Length		2"			DRILLER:	S. Gingrich
				Liner		48"			GEOLOGIST:	T. Burmeier
						Acetate			REVIEWED BY:	D. Sheppard
			SAMPLE			DESCRIPTION				
DEPTH FEET	STRATA	"S" NO.	RECOVERY %	COLOR	CONSISTENCY		MATERIAL	USCS	REMARKS	
					HARDNESS				PID (ppm)	
	[Diagonal hatching]	1	88%	Gray	Dense		0-0.5': Concrete floor, 0.5-1' sub-base gravel and sand	Fill	0	Moist
				Brown	Stiff		1.0-1.5' Fine sand	CL	59	
				Yellow Bro.			1.5-2.5' Clayey silt with fine sand	ML	0	Slightly
4				Reddish-Brown					0	Moist
					End of boring at 4.5 feet					

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push

Assembly. Sampled 1.5-2' interval for VOC analysis

PROJECT NO. 05-00035824.00

BORING NO. Sump 3-X-2

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York						BORING NO: Sump 4-X-1					
CLIENT: Dowell Schlumberger						SHEET: 1 of 1					
BORING CONTRACTOR: Nature's Way, Inc.						PROJECT NO.: 05-00035824.00					
GROUNDWATER:						GROUND ELEVATION:					
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE	DATE STARTED:	07/12/01	
				Di.		Macro core			DATE FINISHED:	07/12/01	
				Length		48"			DRILLER:	S. Gingrich	
				Liner		Acetate			GEOLOGIST:	T. Burmeier	
						REVIEWED BY: D. Sheppard					

DEPTH FEET	STRATA	SAMPLE			DESCRIPTION			USCS	REMARKS PID (ppm)
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL			
4		1	50%	Gray Brown	Dense	0-0.5': Concrete floor, 0.5-1' sub-base gravel and sand 1.0-2.5' Fill: gravel, sand, and wood	Fill	0 0	Moist-wet
						End of boring at 4.5 feet			

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly.	PROJECT NO. 05-00035824.00
	BORING NO. Sump 4-X-1

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York
CLIENT: Dowell Schlumberger
BORING CONTRACTOR: Nature's Way, Inc.

BORING NO: Sump 4-X-2
SHEET: 1 of 1
PROJECT NO.: 05-00035824.00
BORING LOCATION: Inside chemical storage bldg

GROUNDWATER: _____
GROUND ELEVATION: _____

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
					Macro core		
			Dia.		2"		
			Length		48"		
			Liner		Acetate		

DATE STARTED: 07/12/01
DATE FINISHED: 07/12/01
DRILLER: S. Gingrich
GEOLOGIST: T. Burmeier
REVIEWED BY: D. Sheppard

SAMPLE				DESCRIPTION					
DEPTH FEET	STRATA	"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL	USCS	REMARKS PID (ppm)	
		1	63%	Gray	Dense	0-0.5': Concrete floor, 0.5-1' sub-base gravel and sand	Fill	0	
				Lt. Brown		1.0-4.0' Fill: gravel, sand, silty clay and brick			
4		2	100%	Brown	Stiff	4.0-6.5' Clayey silt	ML	Moist-wet	
				Black-Dark Gray		6.5-6.8' Coarse sand			SC
8						6.8-8.0' Clayey silt			
						End of boring at 8.0 feet			

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 2-2.5' interval for VOC analysis.

PROJECT NO. 05-00035824.00
BORING NO. Sump 4-X-2

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York

BORING NO: Sump 5-X-1

CLIENT: Dowell Schlumberger

SHEET: 1 of 1

BORING CONTRACTOR: Nature's Way, Inc.

PROJECT NO.: 05-00035824.00

GROUNDWATER:

BORING LOCATION: Inside chemical storage bldg

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
					Macro core		
					Dia.	2"	
					Length	48"	
					Liner	Acetate	

GROUND ELEVATION:

DATE STARTED: 07/12/01

DATE FINISHED: 07/12/01

DRILLER: S. Gingrich

GEOLOGIST: T. Burmeier

REVIEWED BY: D. Sheppard

DEPTH FEET	STRATA	SAMPLE			CONSISTENCY HARDNESS	DESCRIPTION MATERIAL	USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR				PID (ppm)	
		1	75%	Gray	Dense	0-0.5': Concrete floor, 0.5-1' sub-base gravel and sand	Fill		Moist-wet
				Black				1.0-4.0' Fill:silt and fine -medium sand	
4							↓	↓	
					End of boring at 4.0 feet				

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 2.5-3.0' interval for VOC analysis

PROJECT NO. 05-00035824.00

BORING NO. Sump 5-X-1

URS Corporation								GEOPROBE BORING LOG			
PROJECT: Dowell Schlumberger Site, Depew, New York								BORING NO: Sump 5-X-2			
CLIENT: Dowell Schlumberger								SHEET: 1 of 1			
BORING CONTRACTOR: Nature's Way, Inc.								PROJECT NO.: 05-00035824.00			
GROUNDWATER:								BORING LOCATION: Inside chemical storage bldg			
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:		
				Dia.		Macro core			DATE STARTED: 07/12/01		
				Length		2"			DATE FINISHED: 07/12/01		
				Liner		48"			DRILLER: S. Gingrich		
						Acetate			GEOLOGIST: T. Burmeier		
									REVIEWED BY: D. Sheppard		
SAMPLE								DESCRIPTION			
DEPTH FEET	STRATA	"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL			USCS	REMARKS	
		1	75%	Gray	Dense	0-0.5': Concrete floor, 0.5-1' sub-base gravel and sand			Fill ↓	0	Moist- wet ↓
				Black		1.0-4.0' Fill:silt and fine -medium sand				↓	
4						End of boring at 4.0 feet					
Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly.								PROJECT NO. 05-00035824.00			
								BORING NO. Sump 5-X-2			








URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York					BORING NO.: GPB-1				
CLIENT: Dowell Schlumberger					SHEET: 1 of 1				
BORING CONTRACTOR: Nature's Way, Inc.					PROJECT NO.: 05-00035824.00				
GROUNDWATER:					BORING LOCATION: South of chemical storage bldg.				
DATE					GROUND ELEVATION:				
TIME					DATE STARTED: 07/10/01				
LEVEL					DATE FINISHED: 07/10/01				
TYPE					DRILLER: S. Gingrich				
TYPE					GEOLOGIST: S. Tivnan				
CAS.					REVIEWED BY: D. Sheppard				
SAMPLER									
CORE									
TUBE									

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION			USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL	PID (ppm)	REMARKS			
		1	100%	Lt. Brown	Dense	0-3.0' Fill: crushed limestone, re-worked silty clay with cinders and fine gravel	Fill	0.0	moist		
4		2	50%	Brown-Black	Stiff	3.0-4.0' Silty clay	CL		wet@4'		
		3	100%	Orange brown		4.0-11.5' Clayey silt	ML		moist		
8		4	100%								
		5	60%								
12		6	90%		Soft	11.0-12.0' Silty clay	CL				
						End of boring at 12.0 feet					

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Installed mini-well with screen from 2-12'					PROJECT NO. 05-00035824.00				
					BORING NO. GPB-1				

URS Corporation						GEOPROBE BORING LOG						
PROJECT: Dowell Schlumberger Site, Depew, New York						BORING NO: GPB-2						
CLIENT: Dowell Schlumberger						SHEET: 1 of 1						
BORING CONTRACTOR: Nature's Way, Inc.						PROJECT NO.: 05-00035824.00						
GROUNDWATER:						BORING LOCATION: South of chemical storage bldg.						
CAS.						GROUND ELEVATION:						
DATE	TIME	LEVEL	TYPE	TYPE		split-spoon			DATE STARTED:	07/10/01		
				Dia.		2"			DATE FINISHED:	07/10/01		
				Length		24"			DRILLER:	S. Gingrich		
				Liner		Acetate			GEOLOGIST:	S.Tivnan		
						REVIEWED BY: D. Sheppard						
DEPTH FEET	STRATA	SAMPLE				DESCRIPTION				USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY	MATERIAL			PID (ppm)			
					HARDNESS							
		1	90%	Lt. Brown	Dense	0-3.0' Fill: crushed limestone, re-worked silty clay with cinders and fine gravel			Fill	0.0	moist	
4		2	15%	Brown-Black	Stiff	3.0-4.0' Silty clay			CL	↓	wet@4'	
		3	0%	Orange brown		4.0-11.5' Clayey silt			ML		moist	
8		4	100%									
		5	70%									
12		6	100%		Soft	11.0-14.0' Silty clay			CL	↓		
		7	100%									
						End of boring at 14.0 feet						
Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Installed mini-well with screen from 2-12'						PROJECT NO. 05-00035824.00						
						BORING NO. GPB-2						

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York

BORING NO: GPB-3

SHEET: 1 of 1

CLIENT: Dowell Schlumberger

PROJECT NO.: 05-00035824.00

BORING CONTRACTOR: Nature's Way, Inc.

BORING LOCATION: South of chemical storage bldg.

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				split-spoon				
				Dia.		2"		
				Length		24"		
				Liner		Acetate		

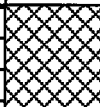

DATE STARTED: 07/10/01

DATE FINISHED: 07/10/01

DRILLER: S. Gingrich

GEOLOGIST: S. Tivnan

REVIEWED BY: D. Sheppard

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION			USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY	MATERIAL	PID (ppm)	REMARKS			
								HARDNESS			
		1	65%	Lt. Brown	Dense	0-4.0' Fill: crushed limestone, re-worked silty clay with cinders and fine gravel	Fill	0.0	moist		
		2	50%	Brown-Black				1-5			
4				Orange brown			1-4	wet@4'			
			3	100%		Stiff	4.0-11.5' Clayey silt	ML	0-0.5	moist	
			4	100%					0.0		
8	5		100%								
12						Refusal at 10 feet					

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push

PROJECT NO. 05-00035824.00

Assembly. Installed mini-well with screen from 2-12'

BORING NO. GPB-3

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York

BORING NO: GPB-4

CLIENT: Dowell Schlumberger

SHEET: 1 of 1

BORING CONTRACTOR: Nature's Way, Inc.

PROJECT NO.: 05-00035824.00

GROUNDWATER:

BORING LOCATION: North of chemical storage bldg.

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
					Macro core		
					Dia.	2"	
					Length	48"	
					Liner	Acetate	

GROUND ELEVATION:

DATE STARTED: 07/12/01

DATE FINISHED: 07/12/01

DRILLER: S. Gingrich

GEOLOGIST: T. Burmeier

REVIEWED BY: D. Sheppard

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION		USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY		MATERIAL		PID (ppm)	
					HARDNESS					
	[Cross-hatched pattern]	1	68%	Dk brn./blk.	Dense	0-1.5' Fill: sand and fine gravel	Fill	320*	Moist	
4				Gray green	Soft	1.5-4.0' Silty clay	CL	0.2		
8	[Diagonal hatched pattern]	2	100%	Red brown to Orange brown	Stiff	4.0-11.5' Clayey silt	ML	0	Slightly moist	
					Soft				Moist	
12									Very moist	
						11.5-12.0' silty clay	CL			
						End of boring at 12.0 feet				

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push

Assembly. Sampled 3-3.5' interval for VOC analysis.

* instrument appeared to be affected by moisture

PROJECT NO. 05-00035824.00

BORING NO. GPB-4

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York						BORING NO.: GPB-5					
CLIENT: Dowell Schlumberger						SHEET: 1 of 1					
BORING CONTRACTOR: Nature's Way, Inc.						PROJECT NO.: 05-00035824.00					
GROUNDWATER:						BORING LOCATION: North of chemical storage bldg.					
DATE						GROUND ELEVATION:					
TIME						DATE STARTED: 07/12/01					
LEVEL						DATE FINISHED: 07/12/01					
TYPE						DRILLER: S. Gingrich					
TYPE						GEOLOGIST: T. Burmeier					
CAS.						REVIEWED BY: D. Sheppard					
SAMPLER											
CORE											
TUBE											

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION			USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY	MATERIAL	PID (ppm)				
										HARDNESS	
	[Cross-hatched pattern]	1	58%	Dk brown	Dense	0-2.0' Fill: silt, sand and fine gravel	Fill	0.0 ↓	Moist		
4				Gray green	Soft	1.5-4.0' Silty clay	CL				
	[Diagonal hatched pattern]	2	100%	Orange brown	Stiff	4.0-11.5' Clayey silt	ML		Slightly moist		
8									Soft		Moist
	[Diagonal hatched pattern]	3	100%					Very moist			
12							11.5-12.0' silty clay	CL			
						End of boring at 12.0 feet					

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly.						PROJECT NO.: 05-00035824.00					
						BORING NO.: GPB-5					

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York					SHEET: 1 of 1				
CLIENT: Dowell Schlumberger					PROJECT NO.: 05-00035824.00				
BORING CONTRACTOR: Nature's Way, Inc.					BORING LOCATION: North of chemical storage bldg.				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:
DATE	TIME	LEVEL	TYPE	TYPE	Macro core				DATE STARTED: 07/12/01
				Dia.	2"				DATE FINISHED: 07/12/01
				Length	48"				DRILLER: S. Gingrich
				Liner	Acetate				GEOLOGIST: T. Burmeier
					REVIEWED BY: D. Sheppard				

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION			USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY	HARDNESS	MATERIAL	PID (ppm)			
		1	68%	Gray	Dense	0-1.7' Fill: crushed limestone, silt, sand and fine gravel	Fill	0.0	↓	Wet	
	Dk brn./blk										
4	Gray green			Soft	1.7-4.0' Silty clay					CL	Moist
		2	100%	Orange brown	Stiff	4.0-11.5' Clayey silt	ML			Slightly moist	
8					Soft						
		3	100%			11.5-12.0' silty clay	CL			Very moist	
12											
						End of boring at 12.0 feet					

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly.					PROJECT NO. 05-00035824.00				
					BORING NO. GPB-6				

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York					BORING NO: GPB-7				
CLIENT: Dowell Schlumberger					SHEET: 1 of 1				
BORING CONTRACTOR: Nature's Way, Inc.					PROJECT NO.: 05-00035824.00				
GROUNDWATER:					BORING LOCATION: North of chemical storage bldg.				
CAS.					GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE	DATE STARTED: 07/12/01
				Dia.		Macro core			DATE FINISHED: 07/12/01
				Length		2"			DRILLER: S. Gingrich
				Liner		48"			GEOLOGIST: T. Burmeier
						Acetate			REVIEWED BY: D. Sheppard


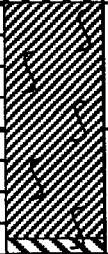

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION			USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY	MATERIAL	PID (ppm)	REMARKS			
								HARDNESS			
		1	63%	Gray	Dense	0-1.5' Fill: crushed limestone, sand and fine gravel	Fill	0.0	Wet		
	Black										
4		2	100%	Gray green	Soft	1.5-11.5' Clayey silt	CL	30	Moist		
	Orange brown			Stiff	Slightly moist						
8				Soft	Moist						
		3	100%			11.5-12.0' silty clay	CL	7	Very moist		
12										End of boring at 12.0 feet	

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 7-7.5' interval for VOC analysis.					PROJECT NO. 05-00035824.00				
					BORING NO. GPB-7				

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York					BORING NO: GPB-8				
CLIENT: Dowell Schlumberger					SHEET: 1 of 1				
BORING CONTRACTOR: Nature's Way, Inc.					PROJECT NO.: 05-00035824.00				
GROUNDWATER:					BORING LOCATION: North of chemical storage bldg.				
CAS.					GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE	DATE STARTED: 07/13/01
				Dia.		Macro core			DATE FINISHED: 07/13/01
				Length		2"			DRILLER: S. Gingrich
				Liner		48"			GEOLOGIST: T. Burmeier
						Acetate			REVIEWED BY: D. Sheppard

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION			USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY	HARDNESS	MATERIAL	PID (ppm)			
		1	63%	Gray	Dense	0-2.0' Fill: crushed limestone, sand, silt, and fine gravel	Fill	600+	Moist-wet		
				Black							
4						Gray green	Soft	2.0-4.0' Silty clay	CL		
		2	100%	Orange brown	Stiff	4.0-11.5' Clayey silt	ML	67	Slightly moist		
8								Soft			Moist
		3	100%			11.5-12.0' silty clay	CL	2000	Very moist		
12											
						End of boring at 12.0 feet					

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 2-2.5' interval for VOC analysis. Set mini-well with screen from 2-12 feet					PROJECT NO. 05-00035824.00				
					BORING NO. GPB-8				

URS Corporation						GEOPROBE BORING LOG			
PROJECT: Dowell Schlumberger Site, Depew, New York						BORING NO: GPB-9			
CLIENT: Dowell Schlumberger						SHEET: 1 of 1			
BORING CONTRACTOR: Nature's Way, Inc.						PROJECT NO.: 05-00035824.00			
GROUNDWATER:						BORING LOCATION: North of chemical storage bldg.			
CAS.						GROUND ELEVATION:			
DATE	TIME	LEVEL	TYPE	TYPE		Macro core			DATE STARTED: 07/13/01
				Dia.		2"			DATE FINISHED: 07/13/01
				Length		48"			DRILLER: S. Gingrich
				Liner		Acetate			GEOLOGIST: T. Burmeier
									REVIEWED BY: D. Sheppard
SAMPLE					DESCRIPTION				
DEPTH FEET	STRATA	"S" NO.	RECOVERY %	COLOR	CONSISTENCY	MATERIAL	USCS	REMARKS	
					HARDNESS			PID (ppm)	
	[Cross-hatched]	1	50%	Gray	Dense	0-2.0' Fill: crushed limestone, sand, silt, and fine gravel	Fill	0.0	Moist-wet
				Black					
4				Orange brown	Soft				
	[Diagonal lines]	2	100%		Stiff	4.0-12' Silty clay	ML	Slightly moist	
8									
	[Diagonal lines]	3	100%		Soft			Moist	
12								CL	27-30
						End of boring at 12.0 feet			
Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 11.5-12' interval for VOC analysis.						PROJECT NO. 05-00035824.00			
						BORING NO. GPB-9			

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York

BORING NO: GPB-10

SHEET: 1 of 1

CLIENT: Dowell Schlumberger

PROJECT NO.: 05-00035824.00

BORING CONTRACTOR: Nature's Way, Inc.

BORING LOCATION: Former acid storage area

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				Macro core				
				Dia.		2"		
				Length		48"		
				Liner		Acetate		

DATE STARTED: 07/13/01

DATE FINISHED: 07/13/01

DRILLER: S. Gingrich

GEOLOGIST: T. Burmeier

REVIEWED BY: D. Sheppard

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION		USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY	MATERIAL	PID (ppm)			
					HARDNESS					
		1	100%	Gray	Dense	0-3.0' Fill: crushed limestone, re-worked silty clay with cinders and fine gravel	Fill	0.0	Moist-wet	
	Gray brown									
4				Orange brown	Stiff					3.0-4.0' Silty clay
			4.0-11.5' Clayey silt	ML						
8		2	100%		Soft				Moist	
12		3	100%			11.5-12.0' Silty clay	CL			
						End of boring at 12.0 feet				

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 7-7.5' interval for VOC analysis.

PROJECT NO. 05-00035824.00

BORING NO. GPB-10

URS Corporation

GEOPROBE BORING LOG

BORING NO: GPB-11

PROJECT: Dowell Schlumberger Site, Depew, New York

SHEET: 1 of 1

CLIENT: Dowell Schlumberger

PROJECT NO.: 05-00035824.00

BORING CONTRACTOR: Nature's Way, Inc.

BORING LOCATION: Former acid storage area

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				Macro core				
				Dia.		2"		
				Length		48"		
				Liner		Acetate		

DATE STARTED: 07/13/01
 DATE FINISHED: 07/13/01
 DRILLER: S. Gingrich
 GEOLOGIST: T. Burmeier
 REVIEWED BY: D. Sheppard

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION			USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL	PID (ppm)				
0		1	95%	Gray	Dense	0-3.0' Fill: crushed limestone, re-worked silty clay	Fill	0.0	Moist		
4		2	100%	Gray brown	Stiff	3.0-11.0' Clayey silt	CL ML		Slightly moist		
8	Orange brown										
12		3	88%		Soft	11.0-16.0' Silty clay	CL		Moist		
16		4	100%								
						End of boring at 16.0 feet					

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 14.5-16' interval for VOC analysis.

PROJECT NO. 05-00035824.00
 BORING NO. GPB-11

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York
 CLIENT: Dowell Schlumberger
 BORING CONTRACTOR: Nature's Way, Inc.

BORING NO: GPB-12
 SHEET: 1 of 1
 PROJECT NO.: 05-00035824.00
 BORING LOCATION: Former acid storage area

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				Macro core				
				Dia.		2"		
				Length		48"		
				Liner		Acetate		

GROUND ELEVATION:
 DATE STARTED: 07/13/01
 DATE FINISHED: 07/13/01
 DRILLER: S. Gingrich
 GEOLOGIST: T. Burmeier
 REVIEWED BY: D. Sheppard

DEPTH FEET	STRATA	SAMPLE			DESCRIPTION		USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL		PID (ppm)	
		1	95%	Gray	Dense	0-3.0' Fill: crushed limestone, re-worked silty clay	Fill	0.0	Moist
4		2	100%	Gray brown	Stiff	3.0-11.0' Clayey silt	CL ML	9-22	Slightly moist
8	Medium brown								
		3	88%		Soft	11.0-14.0' Silty clay	CL	20-55	Moist
12		4	100%						
16						End of boring at 14.0 feet			

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 13.5-14' interval for VOC analysis.

PROJECT NO. 05-00035824.00
 BORING NO. GPB-12

URS Corporation

GEOPROBE BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York

BORING NO: GPB-13
SHEET: 1 of 1

CLIENT: Dowell Schlumberger

PROJECT NO.: 05-00035824.00

BORING CONTRACTOR: Nature's Way, Inc.

BORING LOCATION: Former acid storage area



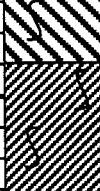
GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE	TYPE	Macro core
				Dia.	2"
				Length	48"
				Liner	Acetate

DATE STARTED: 07/13/01
DATE FINISHED: 07/13/01
DRILLER: S. Gingrich
GEOLOGIST: T. Burmeier
REVIEWED BY: D. Sheppard

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION		USCS	REMARKS	
		"S" NO.	RECOVERY %	COLOR	CONSISTENCY HARDNESS	MATERIAL	PID (ppm)			
4		1	63%	Lt. Brown Black	Dense	0-4.0' Fill:silt, crushed limestone over fine sand	Fill	0.0	Moist	
8		2	100%	Yellow brown	Stiff	4.0-12.0' Clayey silt	ML		Slightly moist	
12		3	88%						Moist	
		4	88%	Medium brown	Soft	12.0-15.5' Silty clay	CL			
						End of boring at 15.5 feet				

Comments: Boring advanced using a truck mounted Simco Earthprobe 200 Direct-Push Assembly. Sampled 13.5-15' interval for VOC analysis.

PROJECT NO. 05-00035824.00
BORING NO. GPB-13

URS Corporation										TEST BORING LOG			
PROJECT: Dowell Schlumberger Site, Depew, New York										BORING NO: MW-5			
CLIENT: Dowell Schlumberger										SHEET: 1 of 1			
BORING CONTRACTOR: Nature's Way, Inc.										PROJECT NO.: 05-00035824.00			
GROUNDWATER:										BORING LOCATION:			
CAS. SAMPLER CORE TUBE										GROUND ELEVATION:			
DATE	TIME	LEVEL	TYPE	TYPE	HSA	Split spoon				DATE STARTED:	07/09/01		
				DIA.	4 1/4" ID	2"				DATE FINISHED:	07/09/01		
				WT.		140#				DRILLER:	S. Gingrich		
				FALL		30"				GEOLOGIST:	T. Burmeier		
* POCKET PENETROMETER READING										REVIEWED BY: D. Lenhardt			
DEPTH FEET	STRATA	SAMPLE					DESCRIPTION					REMARKS	
		"S" NO.	"N" TYPE	BLOWS PER 6"	RECOVERY % RQD %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID (ppm)			
5	[Cross-hatched]	1	33	5	17	55%	Gray Brown	Dense	0-6': Fill - silt with coarse sand and fine to medium gravel	Fill	0	Sli. moist	
				16	9								
		2	4	3	2	70%	Black	Loose					
				2	1								
		3	5	2	1	10%	Red Brown	Medium Soft					Fill- clay with brick fragments
				4	2								
		4	5	WoH	2	70%	Blue Gray						Silty Clay with fine sand
3	4												
10	[Diagonal lines]	5	14	4	6	85%	Medium Brown	Stiff	Clayey Silt	ML	0	↓	moist
				8	9								
				6	8								
12	18												
7	13	4	6	85%		Stiff	↓	0					
		7	10										
15													
20													
25													
30													
35													
Comments: Boring advance using a truck mounted Diedrich D-50; utilizing 4-1/4 inch ID										PROJECT NO. 05-00035824.00			
HSA. Samples collected using 2" split spoon samplers.										BORING NO. MW-5			
WoH= Weight of hammer assembly													

URS Corporation

TEST BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York					BORING NO: MW-6				
CLIENT: Dowell Schlumberger					SHEET: 1 of 1				
BORING CONTRACTOR: Nature's Way, Inc.					PROJECT NO.: 05-00035824.00				
GROUNDWATER:					BORING LOCATION:				
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:
				DIA.	HSA	Split spoon			DATE STARTED: 07/09/01
				WT.	4 1/4" ID	2"			DATE FINISHED: 07/09/01
				FALL		140#			DRILLER: S. Gingrich
						30"			GEOLOGIST: T. Burmeier
					* POCKET PENETROMETER READING				
					REVIEWED BY: D. Lenhardt				

DEPTH FEET	STRATA	SAMPLE					DESCRIPTION					REMARKS	
		"S" NO.	"N" TYPE	BLOWS PER 6"		RECOVERY % RQD %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID (ppm)		
	[Cross-hatched]	1	71	10	29	5%	Gray Brown	Very Dense	0-6': Fill - asphalt paving over silt and fine to coarse gravel	Fill	507*	Sli. moist	
42				50/1									
	[Diagonal lines]	2	20	7	9	0%		Medium Dense			0	Vy. moist	
				11	16								
5	[Diagonal lines]	3	19	10	8	95%	Yellow Brown	Very Stiff	Clayey Silt, trace fine gravel	ML	0	Wet	
				11	17								
	[Diagonal lines]	4	18	5	7	90%			-clay content increases with depth		0	Sli. moist	
				11	15								
10	[Diagonal lines]	5	21	4	7	95%	Medium Brown				0	Sli. moist	
				14	19								
	[Diagonal lines]	6	15	5	7	90%		Stiff	Silty Clay	CL	0	moist	
				8	12								
	[Diagonal lines]	7	12	6	5	55%			-clay content increases with depth		0	moist	
				7	8								
15	[Diagonal lines]	8	11	3	5	45%	Gray Brown		- with 5% fine to coarse sand		0	Wet	
				6	5								
	[Diagonal lines]	9	7	2	3	100%		Medium Soft			0		
				4	6								
20	[Diagonal lines]	10	6	1	3	100%					0		
				3	5								
25									End of boring at 20.5 feet				
30													
35													

Comments: Boring advance using a truck mounted Diedrich D-50; utilizing 4-1/4 inch ID PROJECT NO. 05-00035824.00
HSA. Samples collected using 2" split spoon samplers. BORING NO. MW-6
WoH= Weight of hammer assembly. *= jar headspace, probably cause by sample moisture

URS Corporation										TEST BORING LOG									
PROJECT: Dowell Schlumberger Site, Depew, New York										BORING NO: MW-7									
CLIENT: Dowell Schlumberger										SHEET: 1 of 1									
BORING CONTRACTOR: Nature's Way, Inc.										PROJECT NO.: 05-00035824.00									
GROUNDWATER:										BORING LOCATION:									
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:										
				DIA.	HSA	Split spoon			DATE STARTED: 07/10/01										
				WT.					DATE FINISHED: 07/10/01										
				FALL					DRILLER: S. Gingrich										
				* POCKET PENETROMETER READING					GEOLOGIST: T. Burmeier										
									REVIEWED BY: D. Lenhardt										
DEPTH FEET	SAMPLE					DESCRIPTION						REMARKS							
	STRATA	"S" NO.	"N" TYPE	BLOWS PER 6"	RECOVERY % RQD %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION		USCS	PID (ppm)								
	[Cross-hatched]	1	25	X 11	10%	Dark Gray	Medium Dense	0-2': Fill - asphalt paving and sub-base gravel with silt		Fill	0*	Sli. moist							
				14 8															
	[Diagonal lines]	2	13	6 5	85%	Yellow Brown	Stiff	Silty clay with gray mottles		CL	0*	moist							
				8 12															
5	[Diagonal lines]	3	27	15 12	0%	Medium Brown	Very Stiff	Clayey Silt -clay content increases with depth		ML	0	Sli. moist							
				15 14															
		2 5	85%															0	
		11 14																	
	5	4	16	12 19	95%														
10				22 26															
	[Diagonal lines]	6	18	3 7	0%	Gray Brown	Medium Soft	Silty Clay trace subrounded fine gravel - with 1" thick fine sand and silt layers and 3-5% fine to coarse sand - with 10% fine angular gravel		CL	0	Moist							
				11 21															
		7	8	1	1 3								100%						
					5 7														
15		8	6	1 2	100%							Wet							
		4 8																	
		9	11	2 4	100%		Stiff												
		7 9																	
		10	12	3 4	60%														
20		8 10																	
								End of boring at 20.0 feet											
25																			
30																			
35																			

Comments: Boring advance using a truck mounted Diedrich D-50; utilizing 4-1/4 inch ID
HSA. Samples collected using 2" split spoon samplers.
WoH= Weight of hammer assembly. * Initial PID readings affected by humidity

PROJECT NO. 05-00035824.00
BORING NO. MW-7

URS Corporation

TEST BORING LOG

PROJECT: Dowell Schlumberger Site, Depew, New York

BORING NO: MW-8

CLIENT: Dowell Schlumberger

SHEET: 1 of 1

BORING CONTRACTOR: Nature's Way, Inc.

PROJECT NO.: 05-00035824.00

GROUNDWATER:

BORING LOCATION:
GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
				HSA	Split spoon		
				DIA. 4 1/4" ID	2"		
				WT.	140#		
				FALL	30"		

DATE STARTED: 07/10/01
DATE FINISHED: 07/10/01
DRILLER: S. Gingrich
GEOLOGIST: T. Burmeier
REVIEWED BY: D. Lenhardt

* POCKET PENETROMETER READING

DEPTH FEET	STRATA	SAMPLE					DESCRIPTION					REMARKS	
		"S" NO.	"N" TYPE	BLOWS PER 6"	RECOVERY %		CONSISTENCY	MATERIAL DESCRIPTION		USCS			
					RQD %	COLOR	HARDNESS				PID (ppm)		
		1	9	5 4 5 3	50%	Gray Black	Loose	0-2': Fill - fine gravel, silt, cinders, brick fragments		Fill	0	Moist	
		2	7	1 2 5 6	90%	Orange Brown	Medium Soft	Silty Clay with gray mottles		CL	0		
5		3	13	5 5 8 10	80%		Stiff	Clayey silt		ML	0	Sli. Moist	
		4	17	4 7 10 14	90%		Very Stiff	-clay content increases with depth			0		
10		5	18	4 7 11 17	50%	Medium Brown					0	Moist	
		6	12	3 4 8 10	100%		Stiff	Silty Clay		CL	0		
		7	13	4 7 6 7	100%	Gray Brown		- 5 % fine to coarse sand and gravel			0	Wet	
15		8	11	3 5 6 7	20%						0		
		9	9	2 4 5 7	95%						0		
20		10	11	3 4 7 6	45%						0		
								End of boring at 20.0 feet					
25													
30													
35													

Comments: Boring advance using a truck mounted Diedrich D-50; utilizing 4-1/4 inch ID
HSA. Samples collected using 2" split spoon samplers.
WoH= Weight of hammer assembly. Sampled 4-5' interval for VOC analysis

PROJECT NO. 05-00035824.00
BORING NO. MW-8



PROJECT NUMBER: 480860	BORING NUMBER: GTECH-01 SHEET 1 OF 2
SOIL BORING LOG	

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 1/28/2015 END : 1/28/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	P/D (ppm)	COMMENTS
	RECOVERY (ft)						
5 10 15 20							Breathing Zone = 0.0 ppm
		3.75 4.0	S1	Sandy Silt (SM) 0.0-0.75' - 10YR 2/2, very dark brown, moist to wet, dense, fine grained sand, trace to little clay Gravel, Sand, Silt 0.75-2.8' - 10YR 2/2, 2/1, 3/1, very dark brown, black, very dark gray, fine to coarse sub-angular gravel, white concrete or rock fragments in 1.1-1.2' - 10YR 8/1 Silty Clay (CL) 2.8-3.75' - 10YR 4/3 to 7.5YR 4/2, brown, moist, stiff		0.0 0.0	Collect Sample: GTECH-01-SL0103-012815 at 0915 Driller: hard drilling in ~ 1 to 1.5'
	4.0			3.75-4.0' - no recovery			
		4.0 4.0	S2	Sandy Gravel (SW) 4.0-4.25' - 10YR 2/2 and 2/1, very dark brown to black, wet to saturated, some medium to coarse sand, fine to coarse grained sub-round gravel Clay (CL) 4.25-8.0' - 10YR 4/4 and 7.5YR 4/4, dark yellowish brown and brown, moist to wet, very stiff, few to some silt		0.0 0.0	
	8.0						
		3.3 4.0	S3	Silty Clay (CL) 8.0-11.3' - 7.5YR 4/3, brown, moist, very stiff, slight plasticity		0.0 0.0	
	12.0			11.3-12.0' - no recovery			
		3.8 4.0	S4	Silty Clay (CL) 12.0-14.0' - 7.5YR 4/3, brown, moist, stiff, slight plasticity Clay (CL) 14.0-15.8' - 7.5YR 4/3, 7.5YR 4/1, brown with dark gray, moist to wet, moderately stiff, trace fine to coarse sub-angular gravel		0.0 0.2	Collect Sample: GTECH-01-SL1517-012815 at 1045
	16.0			15.8-16.0' - no recovery			
		4.0 4.0	S5	Silty Clay (CL) 16.0-20.0' - 7.5YR 4/2, brown, moist, soft to medium stiff, trace sand and fine to coarse sub-round to sub-angular gravel		0.0 1.1	
	20	20.0					



PROJECT NUMBER:
480860

BORING NUMBER:
GTECH-01 SHEET 2 OF 2

SOIL BORING LOG

PROJECT : Dowell Depew

LOCATION : Depew, New York

ELEVATION : Not Measured

DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : ---

START : 1/28/2015

END : 1/28/2015

LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
		RECOVERY (ft)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SAMPLER (TYPE)			
20.0	4.0 4.0	S6	Silty Clay (CL) 20.0-24.0' - 7.5YR 4/2 to 4/3, brown, moist, stiff to medium stiff, trace gravel, coarse sand			Collect Sample: GTECH-01-SL2224-012518 at 1345	
24.0			Bottom of Boring at 24.0 ft below ground surface			Driller: Hit hard refusal at 23 ft bgs - not to target depth. Step off 3 ft to reach target depth. Second boring only able to reach 24 ft bgs. Substantial glacial erratic prevents sampler from reaching target depth. \ Geologist: Consult with Project Manager and Senior Technical Consultant - adjust sample depth to 22-24 ft bgs.	
25							
30							
35							
40							



PROJECT NUMBER: 480860	BORING NUMBER: GTECH-02 SHEET 1 OF 2
SOIL BORING LOG	

PROJECT : Dowell Depew	LOCATION : Depew, New York
ELEVATION : Not Measured	DRILLING CONTRACTOR : Parratt Wolf Inc.
DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242	
WATER LEVELS : ---	START : 1/28/2015
	END : 1/28/2015
	LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)			SOIL DESCRIPTION	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)		SAMPLER (TYPE)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
5				Note: No continuous soil sampling conducted - drilling performed with augers - adjacent to logged location GTECH-01 for push and collection of Shelby Tube sample at target intervals		0.0	Breathing Zone = 0.0 ppm
10							
15							Collect Sample: GTECH-02-SL1517-012815 at 1620
20							



PROJECT NUMBER: 480860	BORING NUMBER: RW-01D	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York
 ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.
 DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 1/29/2015 END : 1/29/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SOIL DESCRIPTION			GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)		DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SAMPLER (TYPE)	SOIL DESCRIPTION			
	RECOVERY (ft)	SAMPLER (TYPE)						
4.0	2.85	4.0	0.0-1.5' - 10YR 4/2, dark grayish brown, wet, moderately dense, fine to medium sand, little to few coarse sand, fine to coarse sub-angular gravel, poorly sorted	S1	Silty Sand (SP-SM)	[Patterned]	0.0	Geologist: Unable to collect ambient headspace readings due to rain/snow conditions
5.0	1.45	4.0	2.85-4.0' - no recovery	S2	Silty Sand (SP-SM)	[Patterned]	0.0	
			4.0-5.45' - 10YR 3/1, saturated, moderately dense, fine to medium sand, little to few coarse sand, some fine to coarse sub-angular gravel, poorly sorted, trace to little clay					
8.0			5.45-8.0' - no recovery	S3	no recovery	[Blank]	0.0	
			8.0-12.0' - no recovery					
12.0	0.0	4.0	12.0-16.0' - no recovery	S4	no recovery	[Blank]	0.0	
16.0			16.0-20.0' - no recovery	S5	no recovery	[Blank]	0.0	



PROJECT NUMBER: 480860	BORING NUMBER: TW-01D	SHEET 1 OF 2
----------------------------------	---------------------------------	--------------

SOIL BORING LOG

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 1/26/2015 END : 1/26/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)			DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	P			
5	3.3 / 4.0		S1	Sandy Silt (SM) 0.0-1.5' - 10YR 4/4 and 10YR 2/2, dark yellowish brown and very dark brown, dense to very dense, fine to medium sand, trace coarse sand and fine gravel	3.2	[Hatched Pattern]	Breathing Zone = 0.0 ppm	
				Clayey Silt (SM/CL) 1.5-2.0' - 10YR 4/2, brown, damp, very dense				
	4.0			Silty Clay (CL) 2.0-3.3' - 7.5Y 4/3, brown, damp to moist, very stiff				
10	3.9 / 4.0		S2	Clay (CL) 4.0-7.9' - 7.5Y 3/3, brown, moist, stiff, some silt	3.3	[Hatched Pattern]		
	8.0							
15	4.0 / 4.0		S3	Clay (CL) 8.0-12.0' - 7.5Y 3/3, brown, moist, stiff, some silt	2.6	[Hatched Pattern]		
	12.0							
20	4.0 / 4.0		S4	Clay (CL) 12.0-16.0' - 5YR 4/2, dark reddish brown, moderately stiff to stiff, trace coarse sand and fine sub-angular to angular gravel	14.8	[Hatched Pattern]		
	16.0							
20	4.0 / 4.0		S5	Clay (CL) 16.0-20.0' - 5YR 4/1, dark gray, moist, moderately stiff, moderate plasticity, few to some silt, trace sand, fine sub-angular gravel	31.7	[Hatched Pattern]		
	20.0							



PROJECT NUMBER:
480860

BORING NUMBER:
TW-01S SHEET **1** OF **1**

SOIL BORING LOG

PROJECT : Dowell Depew **LOCATION :** Depew, New York

ELEVATION : Not Measured **DRILLING CONTRACTOR :** Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- **START :** 1/27/2015 **END :** 1/27/2015 **LOGGER :** R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)			DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY				
	4.0	2.95	S1	Sandy Silt 0.0-0.9' - 7.5YR 3/3, dark brown, moist, dense, little clay, fine sand, trace coarse sand and fine gravel	1.6	Breathing Zone = 0.3-0.6 ppm		
		4.0		Silty Sand with gravel 0.9-1.5' - 7.5YR 6/1, gray, dry, dense, fine to medium sand, little coarse sand, trace fine to coarse sub-angular gravel				
5	8.0	4.0	S2	Silty Clay (CL) 1.5-2.95' - 7.5YR 3/2, dark brown, stiff, very dense, trace sand	1.5			
		4.0		Clay (CL) 4.0-8.0' - 7.5YR 5/4, brown, damp to moist, very stiff, little silt				
10	12.0	4.0	S3	Clay (CL) 8.0-12.0' - 7.5YR 4/3, brown, damp to moist, stiff to very stiff, little silt	2.7			
		4.0		Clay (CL) 12.0-16.0' - 7.5 YR 3/3 to 5YR 4/2, dark brown to dark reddish brown, damp to moist, stiff to medium stiff (decreases with depth), slight plasticity, trace to little silt, trace coarse sand				
15	16.0	4.0	S4	Clay (CL) 16.0-20.0' - 7.5YR 4/2 to 3/2, brown to dark brown, moist, stiff to medium stiff, few to some silt, trace coarse sand and little sub-angular gravel	2.8	177.0		
		4.0						
20	20.0	4.0	S5	Clay (CL) 16.0-20.0' - 7.5YR 4/2 to 3/2, brown to dark brown, moist, stiff to medium stiff, few to some silt, trace coarse sand and little sub-angular gravel	20.2	Set Temporary Well from 15-20 ft bgs Collect sample from 15-20 ft bgs for VOC analysis TW-01S-GW-012715@ 1410		
		4.0						
					2.6			
					1.3			
					1.0			
				Bottom of Boring at 20.0 ft below ground surface				



PROJECT NUMBER:
480860

BORING NUMBER:
TW-02D SHEET 1 OF 2

SOIL BORING LOG

PROJECT : Dowell Depew

LOCATION : Depew, New York

ELEVATION : Not Measured

DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : ---

START : 1/27/2015

END : 1/27/2015

LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS						
	RECOVERY (ft)												
5	0.0	2.85	S1	Fill 0.0-0.5' - Organics, topsoil, gravel Sandy Silt 0.5-1.3' - 10YR 4/3 to 4/4, brown to dark yellowish brown, moist, dense, fine sand, trace coarse sand and fine gravel Silt (SM) 1.3-1.6' - 7.5YR 3/2, dark brown, moist, dense, little clay Clay (CL) 1.6-2.85' - 10YR 4/3 transitioning to 7.5YR 4/3, brown to brown, moist, very stiff, little to few silt 2.85-4.0' - no recovery		0.3	Breathing Zone = 0.0 ppm						
	4.0	4.0	S2	Clay (CL) 4.0-8.0' - 7.5YR 4/4 to 4/6, brown to strong brown, damp to moist, very stiff, little silt					0.7				
	8.0	4.0	S3	Clay (CL) 8.0-12.0' - 7.5YR 4/3, brown, damp to moist, stiff, little silt							2.4		
	12.0	4.0	S4	Clay (CL) 12.0-16.0' - 7.5YR 4/2, brown, moist, moderately stiff, little plasticity, with little dark gray 7.5YR 4/1 in 15.5-16.0', few silt									3.1
	16.0	4.0	S5	Clay (CL) 16.0-20.0' - 7.5YR 4/2 and 5YR 4/2, brown and dark reddish brown, moist, moderately stiff, little to some plasticity, some silt, trace fine to coarse sub-angular gravel									
20.0	20.0				0.8								
							0.7						



PROJECT NUMBER: 480860	BORING NUMBER: TW-03D	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew

LOCATION : Depew, New York

ELEVATION : Not Measured

DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : ---

START : 1/27/2015

END : 1/27/2015

LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION	GRAPHIC LOG	PID (ppm)	COMMENTS
		RECOVERY (ft)		DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
5	4.0	2.88	S1	0.0-0.1' - Gravel fragments, organics Sandy Silt (SP-SM) 0.1-2.88' - 10YR 3/3, dark brown, moist to wet, dense, fine to medium sand, trace to little coarse sand and fine to coarse sub-angular gravel, little clay		1.3	Breathing Zone = 0.0 ppm
		4.0	2.88-4.0' - no recovery				
5	8.0	0.5	S2	Sandy Silt (SP-SM) 4.0-4.5' - 10YR 3/3, dark brown, wet, soft, dense, fine to medium sand, trace to little coarse sand and fine to coarse sub-angular gravel, little clay 4.5-8.0' - no recovery		1.0	
		4.0	8.0-12.0' - no recovery				
10	12.0	0.0	S3	8.0-12.0' - no recovery			
		4.0	12.0-16.0' - no recovery				
15	16.0	0.0	S4	12.0-16.0' - no recovery			Breathing Zone = 0.0 ppm
		4.0	16.0-16.65' - 10YR 4/2, dark grayish brown, wet, soft, medium dense, few to some clay, trace coarse sand and fine gravel Silty Clay (CL) 16.65-18.7' - 10YR 4/2 to 3/2, dark grayish brown to very dark grayish brown, moist to wet, stiff, moderate plasticity, trace fine to coarse gravel (sub-angular to sub-round) 18.7-20.0' - no recovery				
20	20.0	2.7	S5			1.0	
		4.0					



PROJECT NUMBER: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">480860</div>	BORING NUMBER: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">TW-03D</div>
SHEET 2 OF 2	
<b style="font-size: 1.5em;">SOIL BORING LOG	

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 1/27/2015 END : 1/27/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)			SOIL DESCRIPTION	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)		SAMPLER (TYPE)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
25	20.0	4.0 4.0	S6	Clay (CL) 20.0-24.0' - 7.5YR 4/2 to 5YR 4/2, brown to dark reddish gray, wet, stiff, some silt, trace coarse sand and fine gravel		1.0	
	24.0					1.1	
25	24.0	3.75 4.0	S7	Clay (CL) 24.0-27.75' - 7.5YR 4/2 to 5YR 4/2, brown to dark reddish gray, wet, stiff, some silt, trace coarse sand and fine gravel		2.2	Breathing Zone = 0.0 ppm Set Temporary Well from 24.5-29.5 ft bgs Collect sample from 24.5-29.5 ft bgs for VOC analysis TW-03D-GW-012715 @ 1730
	28.0			27.75-28.0' - no recovery		0.2	
30	28.0	1.15 1.5	S8	Clay (CL) 28.0-29.15' - 7.5YR 4/2 to 5YR 4/2, brown to dark reddish gray, wet, stiff, some silt, trace coarse sand and fine gravel		0.6	Driller: Hit refusal at 29.5 ft bgs
	29.5			29.15-29.5' - no recovery		27.0	
30				Bottom of Boring at 29.5 ft below ground surface			
35							
40							



PROJECT NUMBER: 480860	BORING NUMBER: TW-03S
SHEET 1 OF 1	
SOIL BORING LOG	

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 1/27/2015 END : 1/27/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)						
			S1	Sandy Silt (SM) 0.0-1.3' - 10YR 3/3, dark brown, wet, dense, fine to medium sand, trace fine to coarse gravel		2.4	Breathing Zone = 0.0 ppm
	2.3 4.0			Sandy Silt (SM) 1.3-2.3' - 10YR 3/3, dark brown, wet, dense, fine to medium sand, trace fine to coarse gravel 2.3-4.0' - no recovery			
5	4.0		S2	4.0-8.0' - no recovery			
			S3	8.0-12.0' - minimal to no recovery Recovered material is "slurry" of water, with sandy gravel			
	8.0						
			S4	Gravel and Sand 12.0-12.2' - saturated, loose, fine to coarse sand, poorly sorted		4.0	
	0.0 4.0			Clay (CL) 12.2-12.93' - 7.5YR 4/2 to 3/2, brown to dark brown, wet, stiff, little silt 12.93-16.0' - no recovery			
15	16.0		S5	Silty Clay (CL) 16.0-20.0' - 7.5YR 4/2 to 5YR 4/2, brown to dark reddish gray, wet, stiff to moderately stiff, slight to moderate plasticity, trace fine to coarse sand, trace fine to coarse sub-round to sub-angular gravel		5.7	Set Temporary Well from 15-20 ft bgs Collect sample from 15-20 ft bgs for VOC analysis TW-03S-GW-012815 @ 1720
	4.0 4.0						
20	20.0					3.4	
				Bottom of Boring at 20.0 ft below ground surface			



PROJECT NUMBER: 480860	BORING NUMBER: TW-04D	SHEET 2 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 1/29/2015 END : 1/29/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)			SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS
		RECOVERY (ft)					
		SAMPLER (TYPE)					
	20.0			Silty Clay (CL) 20.0-24.0' - 7.5YR 4/2, brown, moist to wet, soft to moderately soft, slight plasticity, trace fine to coarse sub-round to sub-angular gravel		18.2	
		4.0 4.0	S6			0.0	
	24.0			Silty Clay (CL) 24.0-27.9' - 7.5YR 4/2, brown, moist to wet, soft to moderately soft, slight plasticity, trace fine to coarse sub-round to sub-angular gravel		11.5	Set Temporary Well from 24.5-29.5 ft bgs Collect sample from 24.5-29.5 ft bgs for VOC analysis TW-04D-GW-013015 @ 1000
25		3.9 4.0	S7			0.0	
	28.0			27.9-28.0' - no recovery		0.0	
		1.5 1.5	S8	Silty Clay (CL) 28.0-29.5' - 5YR to 7.5YR 4/2, brown, moist to wet, soft to moderately soft, slight plasticity, trace fine to coarse sub-round to sub-angular gravel			Driller: Hit refusal at 29.5 ft bgs
	29.5			Bottom of Boring at 29.5 ft below ground surface			
30							
35							
40							



PROJECT NUMBER: 480860	BORING NUMBER: TW-05D
SHEET 1 OF 2	
SOIL BORING LOG	

PROJECT : Dowell Depew	LOCATION : Depew, New York
ELEVATION : Not Measured	DRILLING CONTRACTOR : Parratt Wolf Inc.
DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242	
WATER LEVELS : ---	START : 2/3/2015 END : 2/3/2015 LOGGER : J. Burkard

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)			DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
5	4.0	3.0 4.0	S1	Crushed Gravel and Sand 0.0-2.0' - light gray to dark gray, mixture, 0.5-1.0" in size		2.1 2.2 1.0 0.8 5.3 35.1 36.0 5.1 4.9	Breathing Zone = 0.0-3.0 ppm
		8.0	4.0 4.0	S2			
10	4.0 4.0						
		15	4.0 4.0	S4			
20	4.0 4.0						
		20.0					



PROJECT NUMBER: 480860	BORING NUMBER: TW-05D SHEET 2 OF 2
SOIL BORING LOG	

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 2/3/2015 END : 2/3/2015 LOGGER : J. Burkard

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)			SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)		SAMPLER (TYPE)				
20.0		0.5 4.0	S6	Silty Lean Clay (CL) 20.0-20.5' - strong dark brown, wet, with little gravel and sand mixed in 20.5-24.0' - no recovery		1.2	Set Temporary Well from 22.3-27.3 ft bgs Collect sample from 22.3-27.3 ft bgs for VOC analysis TW-05D-GW-020415 @ 1030
24.0		4.0 4.0	S7	Silty Lean Clay (CL) 24.0-28.0' - strong dark brown, slightly moist, with little gravel and sand mixed in, increase in amount and size of gravel clast up to 0.75" size		0.7	
28.0		2.0 2.0	S8	Lean Clay (CL) 28.0-30.0' - strong brown, slightly moist, less embedded gravel clast		5.3	
30.0	30.0			Bottom of Boring at 30.0 ft below ground surface		20.2	
35							
40							



PROJECT NUMBER: 480860	BORING NUMBER: TW-05S	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York
ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.
DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 2/3/2015 END : 2/3/2015 LOGGER : J. Burkard

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY				
5	4.0	4.0	S1	Crushed Gravel and Sand 0.0-2.0' - light gray to dark gray, 0.5-1.0" in size	0.9	0.0	Breathing Zone = 0.0-0.3 ppm	
	4.0	4.0	S2	Silty Lean Clay (CL) 2.0-8.0' - light brown, with little to trace gravel, dry but not hard, very little moisture, gravel (rounded) embedded inside lean clay about 0.25" in size				
	8.0	4.0	S3	Silty Lean Clay (CL) 8.0-12.0' - strong brown, lightly moist, with little to trace gravel	0.8	0.0		
	12.0	4.0	S4	Silty Lean Clay (CL) 12.0-16.0' - strong brown, moist to wet, with little to trace gravel, embedded gravel clast up to 0.5" in size	0.0	0.0		
	16.0	4.0	S5	Silty Lean Clay (CL) 16.0-20.0' - strong dark brown, wet, with little gravel and sand mixed	0.6	0.0		
20	20.0		Bottom of Boring at 20.0 ft below ground surface		0.0			

Set Temporary Well from 14.8-19.8 ft bgs
Collect sample from 14.8-19.8 ft bgs for VOC analysis
TW-05S-GW-020415 @ 1000



PROJECT NUMBER: 480860	BORING NUMBER: TW-06D
SHEET 2 OF 2	
SOIL BORING LOG	

PROJECT : Dowell Depew	LOCATION : Depew, New York
ELEVATION : Not Measured	DRILLING CONTRACTOR : Parratt Wolf Inc.
DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242	

WATER LEVELS : --- START : 1/30/2015 END : 1/30/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		RECOVERY (ft)	SAMPLER (TYPE)	SOIL DESCRIPTION	GRAPHIC LOG	PID (ppm)	COMMENTS
					DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
	20.0				Silty Clay (CL) 20.0-23.9' - 7.5YR 4/2, brown, moderately soft to soft, some silt, stiffness decreasing with depth, trace fine to coarse sub-angular gravel		2.4	Set Temporary Well from 25-30 ft bgs Collect sample from 25-30 ft bgs for VOC analysis TW-06D-GW-020415 @ 0900
		<u>3.9</u> 4.0	S6	2.0				
	24.0				2.2			
25				23.9-24.0' - no recovery Silty Clay (CL) 24.0-27.3' - 7.5YR 4/2, brown, moderately soft to soft, some silt, stiffness decreasing with depth, trace fine to coarse sub-angular gravel, little to few angular gravel in 24-25'		1.9		
		<u>3.3</u> 4.0	S7	2.2				
	28.0				2.2			
				27.3-28.0' - no recovery Silty Clay (CL) 28.0-30.0' - 7.5YR 4/2, brown, moderately soft to soft, some silt, stiffness decreasing with depth, trace fine to coarse sub-angular gravel		2.1		
30	30.0	<u>2.0</u> 2.0	S8	2.1				
				Bottom of Boring at 30.0 ft below ground surface				
35								
40								



PROJECT NUMBER: 480860	BORING NUMBER: TW-07D
SHEET 1 OF 2	
SOIL BORING LOG	

PROJECT : Dowell Depew	LOCATION : Depew, New York
ELEVATION : Not Measured	DRILLING CONTRACTOR : Parratt Wolf Inc.
DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242	

WATER LEVELS : ---
START : 2/4/2015
END : 2/4/2015
LOGGER : J. Burkard

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)			SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)	SAMPLER (TYPE)					
		3.5 4.0	S1	Gravelly Clay (CL) 0.0-3.5' - black and dark brown, gravel 1/4 to 1/2" in size		0.2	Breathing Zone = 0.1-0.3 ppm
4.0				3.5-4.0' - no recovery			
5		4.0 4.0	S2	Silty Lean Clay (CL) 4.0-10.0' - tan to light brown, dry to slightly moist, with little to trace glacial gravel inclusions		0.6 0.2	
8.0						0.5	
10		4.0 4.0	S3	Silty Lean Clay (CL) 10.0-28.0' - strong brown, moist to wet, with glacial gravel inclusions which increase with depth		0.5	
12.0						0.6	
15		4.0 4.0	S4			0.9	
16.0						0.8	
20		4.0 4.0	S5			0.5	
20.0							



PROJECT NUMBER: 480860	BORING NUMBER: TW-07D	SHEET 2 OF 2
----------------------------------	---------------------------------	--------------

SOIL BORING LOG

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 2/4/2015 END : 2/4/2015 LOGGER : J. Burkard

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)						
20.0						0.4	
	2.0	4.0	S6				
24.0						0.5	
	4.0	4.0	S7			0.5	
28.0						0.7	
				Bottom of Boring at 28.0 ft below ground surface			Driller: Hit refusal at 28.0 ft bgs
30							
35							
40							



PROJECT NUMBER: 480860	BORING NUMBER: TW-09D	SHEET 2 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew	LOCATION : Depew, New York		
ELEVATION : Not Measured	DRILLING CONTRACTOR : Parratt Wolf Inc.		
DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242			
WATER LEVELS : ---	START : 2/4/2015	END : 2/4/2015	LOGGER : J. Burkard

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)			SOIL DESCRIPTION	GRAPHIC LOG	COMMENTS
	RECOVERY (ft)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY				
		SAMPLER (TYPE)				
25						
29.5						
30				Bottom of Boring at 29.5 ft below ground surface		
35						
40						

Set Temporary Well from 24.5-29.5 ft bgs
Collect sample from 24.5-29.5 ft bgs for VOC analysis
TW-09D-GW-020415 @ 1130



PROJECT NUMBER: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">480860</div>	BORING NUMBER: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">TW-10D</div>
SHEET 1 OF 2	
SOIL BORING LOG	

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 3/31/2015 END : 3/31/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		RECOVERY (ft)	SAMPLER (TYPE)	SOIL DESCRIPTION	GRAPHIC LOG	PID (ppm)	COMMENTS
	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY							
	START	END						
0	1.8 4.0	S1			Sandy Silt and Gravel (ML) 0.0-0.75' - 10YR 6/2, light brownish gray, wet, few organics, poorly sorted Silty Sand (SM) 0.75-1.3' - 10YR 2/2, very dark brown, moist to wet, trace to little gravel, little organics Silty Sand and Silt (SM/ML) 1.3-1.8' - 10YR 5/3, brown, moist, dense 1.8-4.0' - no recovery	0.1	Breathing Zone = 0.0 ppm	
5	3.75 4.0	S2			Silt (ML) 4.0-7.75' - 7.5YR 4/6, strong brown, moist, very dense, trace medium to coarse sand, trace organics 7.75-8.0' - no recovery	0.2	Breathing Zone = 0.0 ppm	
10	4.0 4.0	S3			Clayey Silt (ML) 8.0-12.0' - 7.5YR 4/6 and 5YR 4/4, strong brown and reddish brown, moist, very dense, trace medium to coarse sand	0.6	Breathing Zone = 0.0 ppm	
15	4.0 4.0	S4			Clayey Silt (ML) 12.0-16.0' - 5YR 4/2 to 5YR 3/2, dark reddish gray to dark reddish brown, moist to wet, moderately dense (decreases with depth), trace organics	0.4	Breathing Zone = 0.0 ppm	
20	3.5 4.0	S5			Clayey Silt (ML) 16.0-19.5' - 7.5 YR 4/2 to 10YR 4/2, brown to dark grayish brown, saturated to wet, soft, moderately dense, slight plasticity, trace very fine grained sand, trace medium to coarse sand 19.5-20.0' - no recovery	0.3	Breathing Zone = 0.0 ppm	
	20.0							



PROJECT NUMBER: 480860	BORING NUMBER: TW-10S	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 3/31/2015 END : 3/31/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
		RECOVERY (ft)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SAMPLER (TYPE)			
5	4.0	2.5 4.0	S1	Silty Sand with Gravel (SM) 0.0-0.9' - 10YR 5/2, grayish brown, wet, fine to coarse sub-rounded gravel, trace organics, poorly sorted		0.0	Breathing Zone = 0.0 ppm
				0.8-0.9' - brick fragments/debris			
	8.0	2.2 4.0	s2	Silty Sand (SM) 0.9-1.6' - 10YR 2/1 to 10YR 2/2, black to very dark brown, moist to wet, fine to medium grained, trace organics, trace fine to coarse gravel, poorly sorted		0.1	PID reading not available - no recovery Breathing Zone = 0.0 ppm
				Silt (ML) 1.6-2.5' - 10YR 5/2, grayish brown, moist, dense, trace organics			
				2.5-4.0' - no recovery			
10	3.6 4.0	S3	4.0-6.2' - 5YR 4/2 and 7.5 YR 4/6, reddish brown to strong brown, moist, dense, with 10YR 6/2 light brownish gray mottling, trace organics	1.0	PID reading not available - no recovery Breathing Zone = 0.0 ppm		
			6.2-8.0' - no recovery				
15	3.9 4.0	S4	8.0-8.25' - Angular gravel, likely slough	0.8	Breathing Zone = 0.0 ppm		
			Silt (ML) 8.25-11.6' - 7.5Y 4/6 to 5Y 4/4, strong brown to reddish brown, moist to wet, very dense to dense				
			11.6-12.0' - no recovery				
20	4.0 4.0	S5	Clayey Silt (ML) 12.0-15.9' - 7YR 3/4 with 10YR 5/4, dark brown with yellowish brown in 14-16', wet, dense to moderate dense (decreasing with depth), trace fine to coarse sub-round to sub-angular gravel, non-plastic	0.2	Set Temporary Well from 23-28 ft bgs Collect sample from 23-28 ft bgs for VOC analysis TW-10S-GW-040115 @ 0825 Breathing Zone = 0.0 ppm		
			15.9-16.0' - no recovery				
	20.0		Clayey Silt (ML) 16.0-20.0' - 10YR 4/2 and 7.5Y 4/2, dark grayish brown and brown, wet, soft, moderately dense, trace fine to coarse sub-round to sub-angular gravel (pieces up to 0.1')	0.2			
			Bottom of Boring at 20.0 ft below ground surface				



PROJECT NUMBER: 480860	BORING NUMBER: TW-11D	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 3/31/2015 END : 3/31/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS
		RECOVERY (ft)					
5	4.0	<u>2.75</u> 4.0	S1	Silty Sand and Gravel with Organics (SM) 0.0-0.6' - 10YR 4/2 to 10YR 2/1, dark grayish brown to black, wet, poorly sorted Organics 0.6-1.0' - 10YR 2/1, black, layer Organics, Sand, and Gravel 1.0-1.75' - 10YR 2/1, black, wet, poorly sorted Silt (ML) 1.75-2.25' - 10YR 5/2, grayish brown, moist, dense, little clay, trace very fine grained sand Silt (ML) 2.25-2.75' - 7.5Y 4/2 with 10YR 6/2, brown with trace light brownish gray mottling, moist, dense, few clay, trace organics, trace very fine grained sand 2.75-4.0' - no recovery		0.4	Breathing Zone = 0.0 ppm
	8.0	<u>3.25</u> 4.0	S2	2.25-2.75' - 7.5Y 4/2 with 10YR 6/2, brown with trace light brownish gray mottling, moist, dense, few clay, trace organics, trace very fine grained sand 2.75-4.0' - no recovery Clayey Silt (ML) 4.0-7.25' - 7.5Y 4/2 with 10YR 6/2, brown with trace light brownish gray mottling, moist, dense, trace very fine grained sand 7.25-8.0' - no recovery		0.2 0.2	Breathing Zone = 0.0 ppm
10	12.0	<u>4.0</u> 4.0	S3	Sand and Gravel 8.0-8.25' - likely slough Clayey Silt (ML) 8.25-12.0' - 7.5YR 4/3 to 5Y 4/3, brown to reddish brown, moist, dense to very dense, trace very fine grained sand and fine sub-round to sub-angular gravel, non-plastic		0.3 0.1	Breathing Zone = 0.0 ppm
15	16.0	<u>3.9</u> 4.0	S4	Clayey Silt (ML) 12.0-15.5' - 5YR 4/2 to 10YR 4/2, dark reddish brown transitioning to dark grayish brown, wet to saturated, soft, moderately dense, slight to little plasticity, trace fine to very fine grained sand 15.5-16.0' - 5YR 4/2 to 10YR 4/2, dark reddish brown transitioning to dark grayish brown, wet to saturated, soft, slight to little plasticity, trace fine to very fine grained sand, with few to some very fine grained sand, trace to little fine to coarse gravel		0.5 0.6	Breathing Zone = 0.0 ppm
20	20.0	<u>3.55</u> 4.0	S5	Clayey Silt (ML) 16.0-19.55' - 10YR 4/2, dark grayish brown, wet to saturated, soft, moderately dense, trace fine to very fine sand, dry rock flour/gravel lense at 16.5-16.7' bgs 19.55-20.0' - no recovery		0.3 0.1	Breathing Zone = 0.0 ppm



PROJECT NUMBER:
480860

BORING NUMBER:
TW-11D SHEET **2 OF 2**

SOIL BORING LOG

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 3/31/2015 END : 3/31/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SOIL DESCRIPTION		GRAPHIC LOG	P/D (ppm)	COMMENTS
		RECOVERY (ft)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SAMPLER (TYPE)			
20.0			Clayey Silt (ML) 20.0-21.25' - 10YR 4/2, dark grayish brown, saturated, soft, slight to little plasticity, trace to little fine to coarse sub-angular gravel 21.25-24.0' - no recovery		0.1	Breathing Zone = 0.0 ppm	
	1.25 4.0	S6			0.4	Set Temporary Well from 22.5-27.5 ft bgs Collect sample from 22.5-27.5 ft bgs for VOC analysis TW-11D-GW-040115 @ 0835	
24.0			24.0-24.25' - slough 24.25-27.5' - no recovery				
25						Driller: Encountered gravel at 27.5 ft bgs	
	0.25 3.5	S7					
27.5			Bottom of Boring at 27.5 ft below ground surface				
30							
35							
40							



PROJECT NUMBER:
480860

BORING NUMBER:
TW-11S SHEET 1 OF 1

SOIL BORING LOG

PROJECT : Dowell Depew

LOCATION : Depew, New York

ELEVATION : Not Measured

DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : ---

START : 3/31/2015

END : 3/31/2015

LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS	
	RECOVERY (ft)	SAMPLER (TYPE)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY					
5 10 15 20				Topsoil, Organics 0.0-0.2'		1.4	Breathing Zone = 0.0 ppm	
	1.75 4.0	S1	Sand and Gravel (SW) 0.2-0.4' - 10YR 2/1, black, wet to saturated, fine to coarse grained, fine to coarse sub-angular to sub-round gravel, poorly sorted					
	4.0		Sand with Gravel (SW) 0.4-1.55' - 10YR 7/2, dark grayish brown, wet, fine to medium sand, little silt, fine to coarse sub-angular gravel, poorly sorted					
			Silt (ML) 1.55-1.75' - 5Y 3/2 to 7.5Y 4/2, dark reddish brown to brown, moist, dense to very dense, few to some clay, trace coarse sand					Breathing Zone = 0.0 ppm
	3.5 4.0	S2	1.75-4.0' - no recovery					
			4.0-4.25' - slough, sand/gravel					
	8.0		Clayey Silt (ML) 4.25-7.5' - 7.5YR 4/2 to 5YR 5/3, brown to reddish brown, moist, dense, trace 10YR 6/2 light grayish brown mottling, trace fine to coarse sub-round to sub-angular gravel, non-plastic			0.7		
			7.5-8.0' - no recovery					
	4.0 4.0	S3	Clayey Silt (ML) 8.0-12.0' - 7.5YR 4/2 to 5YR 5/3, brown to reddish brown, moist, dense, trace 10YR 6/2 light grayish brown mottling, trace fine to coarse sub-round to sub-angular gravel, density increases slightly with depth, non-plastic			0.5		Breathing Zone = 0.0 ppm
						0.2		
						0.2		
3.9 4.0	S4	Clayey Silt (ML) 12.0-15.9' - 7.5YR 4/3 to 10YR 4/2, brown transitioning to dark grayish brown in 13-14', wet to saturated, soft, moderately dense, slight to little plasticity, trace fine to coarse sub-round to sub-angular gravel		0.2				
						Set Temporary Well TW-11S from 15-20 ft bgs Collect sample from 15-20 ft bgs for VOC analysis TW-11S-GW-040115 @ 0842 Breathing Zone = 0.0 ppm		
0.8 4.0	S5	15.9-16.0' - no recovery						
		Clayey Silt (ML) 16.0-16.8' - 7.5YR 4/3 to 10YR 4/2, brown transitioning to dark grayish brown in 13-14', wet to saturated, soft, moderately dense, slight to little plasticity, trace fine to coarse sub-round to sub-angular gravel		0.3				
20.0								



PROJECT NUMBER: 480860	BORING NUMBER: TW-12D	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York
 ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.
 DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 3/31/2015 END : 3/31/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS			
		RECOVERY (ft)								
5	4.0	1.7	S1	Sandy and Gravel (GW) 0.0-0.65' - 10YR 4/4 and 10YR 4/2, dark yellowish brown and dark grayish brown, wet, dense, little silt, fine to coarse sub-angular to angular gravel, fine to medium sand, little debris (brick) Silt (ML) 0.65-1.0' - 10YR 2/1 to 2/2, balck to very dark brown, moist, dense, trace to little fine to coarse sand, few clay, trace fine gravel Clayey Silt (ML) 1.0-1.7' - 7.5YR 4/2 to 3/2, brown to dark brown, moist, very dense to dense, with trace 10YR 2/1 black mottling/organics, trace medium to coarse sand 1.7-4.0' - no recovery Clayey Silt (ML) 4.0-7.8' - 7.5YR 4/4, brown, moist, very dense to dense, trace medium to coarse sand		0.4	Breathing Zone = 0.0 ppm			
		4.0					S2	7.8-8.0' - no recovery		1.3
	8.0	3.0	S3	8.0-11.0' - 7.5YR 4/3, brown, moist, dense to very dense, trace gray (10YR 6/2 light brownish gray) mottling, trace coarse sand and fine gravel		2.0		Breathing Zone = 0.0 ppm		
		4.0		11.0-12.0' - no recovery						
	15	4.0	S4	12.0-16.0' - 7.5YR 3/2 to 10YR 4/2, dark brown transitioning to dark grayish brown in 14-16', moist, moderately dense (decreasing with depth), slight plasticity, trace to little 10YR 5/6 yellowish brown mottling, trace coarse sand and fine to coarse sub-angular gravel		4.9	Breathing Zone = 0.0 ppm			
4.0		S5		16.0-20.0' - 10YR 4/2 and 7.5Y 4/2, dark grayish brown and brown, moist, moderately dense to dense, little plasticity, trace to little fine to coarse sub-round gravel				3.5	Breathing Zone = 0.0 ppm	
20	20.0									



PROJECT NUMBER: 480860	BORING NUMBER: TW-12D	SHEET 2 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York
 ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.
 DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 3/31/2015 END : 3/31/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)			SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)		SAMPLER (TYPE)				
20.0	4.0 4.0		S6	Silt (ML) 20.0-24.0' - 10YR 4/2 and 7.5Y 4/2, dark grayish brown and brown, moist, soft, moderately dense to dense, little plasticity, trace to little fine to coarse sub-round gravel, increasing plasticity		0.2	Breathing Zone = 0.0 ppm
24.0	3.5 3.5		S7			Clayey Silt (ML) 24.0-27.5' - 10YR 3/3 and 4/2, dark brown and dark grayish brown, moist to wet, soft, moderately dense, slight to no plasticity, trace to little fine to coarse sub-angular gravel, some fine to very fine sand	0.1
25	3.5 3.5		S7	Bottom of Boring at 27.5 ft below ground surface			0.1
27.5						0.2	
30				Bottom of Boring at 27.5 ft below ground surface			
35							
40							



PROJECT NUMBER: 480860	BORING NUMBER: TW-12S	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 4/1/2015 END : 4/1/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY					
		COMMENTS					
4.0	2.75 4.0	S1	Silty Sand and Gravel (SM) 0.0-1.4' - 10YR 4/3 to 10YR 4/4, brown transitioning to dark yellowish brown, wet, fine to coarse sub-round to sub-agnular gravel, poorly sorted	0.5	Breathing Zone = 0.0 ppm		
			Silt (ML) 1.4-1.6' - 10YR 2/2, very dark brown, dense, trace clay and very fine grained sand Silt (ML) 1.6-2.75' - 10YR 4/2 to 7.5Y 4/4, dark grayish brown transitioning to brown in 2-2.75', moist to damp, very dense, few to some clay, trace coarse sand and fine gravel, non-plastic 2.75-4.0' - no recovery 4.0-4.65' - slough from above, sand and gravel				
8.0	3.55 4.0	S2	Silt (ML) 4.65-7.55' - 7.5Y 4/4 to 4/6, brown to strong brown, damp to moist, very dense, slight plasticity, few to some clay	0.5	Breathing Zone = 0.0 ppm		
			7.55-8.0' - no recovery				
12.0	4.0 4.0	S3	Clayey Silt (ML) 8.0-12.0' - 7.5YR 4/3, brown, moist, very dense, trace coarse sand and fine gravel	1.0	Breathing Zone = 0.0 ppm		
			6.3				
16.0	3.75 4.0	S4	Clayey Silt (ML) 12.0-15.75' - 7.5YR 3/2 to 3/4, dark brown, moist to wet, soft, moderately dense, little plasticity	4.3	Breathing Zone = 0.0 ppm		
			15.75-16.0' - no recovery				
20.0	3.6 4.0	S5	Clayey Silt (ML) 16.0-19.6' - 7.5Y 4/2 to 3/2, brown to dark brown, wet, soft, moderately dense, little plasticity, trace to little fine to coarse sub-round to sub-angular gravel, trace coarse sand	0.2	Breathing Zone = 0.0 ppm		
			15.75-16.0' - no recovery				
			19.6-20.0' - no recovery	0.1	Set Temporary Well from 15-20 ft bgs Collect Sample from 15-20 ft bgs for VOC analysis TW-12S-GW-040115 @ 1245 Breathing Zone = 0.0 ppm		
			Bottom of Boring at 20.0 ft below ground surface				



PROJECT NUMBER: <p style="text-align: center; font-weight: bold; font-size: 1.2em;">480860</p>	BORING NUMBER: <p style="text-align: center; font-weight: bold; font-size: 1.2em;">TW-13D</p>
SHEET 1 OF 2	
<h2 style="margin: 0;">SOIL BORING LOG</h2>	

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 4/1/2015 END : 4/1/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)			DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	Breathing Zone = 0.0 ppm			
4.0	<u>2.1</u> 4.0	S1	<p>Sand and Gravel (GW) 0.0-0.8' - 10YR 4/2, dark grayish brown, dense, fine to coarse sand, fine to coarse sub-angular to angular gravel, trace debris (brick), poorly sorted</p> <p>Silty Sand (SP-SM) 0.8-1.15' - 10YR 4/6 and 10 YR 2/2, dark yellowish brown mottled with very dark brown, moist to wet, dense, some silt, trace coarse sand and fine gravel</p> <p>Sand (SP) 1.15-1.5' - 10YR 2/1, black, wet, moderately dense, fine to medium grained, little silt, trace coarse sand and fine gravel</p>	1.3	Breathing Zone = 0.0 ppm			
5.0	<u>3.25</u> 4.0	S2	<p>Silt (ML) 1.5-2.1' - 7.5YR 4/6 to 7.5YR 4/4, strong brown to brown, moist, dense to very dense, little fine to coarse sub-angular to angular gravel, little clay</p> <p>2.1-4.0' - no recovery</p> <p>Clayey Silt (ML) 4.0-7.25' - 7.5YR 4/6, strong brown, moist, very dense to dense</p> <p>7.25-8.0' - no recovery</p>	0.0	Breathing Zone = 0.0 ppm no PID reading, no recovery			
8.0	<u>4.0</u> 4.0	S3	<p>Clayey Silt (ML) 8.0-12.0' - 7.5YR 4/4, brown, damp to moist, very dense, trace coarse sand</p>	0.5	Breathing Zone = 0.0 ppm			
10.0	<u>4.0</u> 4.0	S4	<p>Clayey Silt (ML) 12.0-16.0' - 7.5YR 4/3 to 4/2, brown transitioning to brown, moist to wet, dense to moderately dense (decreasing with depth), trace coarse sand and fine sub-angular to angular gravel</p>	0.8	Breathing Zone = 0.0 ppm			
12.0	<u>4.0</u> 4.0	S5	<p>Clayey Silt (ML) 16.0-20.0' - 7.5YR 4/2, brown, moist, moderately soft, dense, little plasticity, trace coarse sand and fine sub-angular to angular gravel</p>	0.1	Breathing Zone = 0.0 ppm			
15.0	<u>4.0</u> 4.0			0.2				
16.0	<u>4.0</u> 4.0			0.1				
20.0	20.0							



PROJECT NUMBER: 480860	BORING NUMBER: TW-13S	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York
 ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.
 DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 4/2/2015 END : 4/2/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)			DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	Breathing Zone = 0.0 ppm			
		2.9 4.0	S1	Sand and Gravel (GW) 0.0-1.4' - 10YR 4/2, dark grayish brown, wet, moderately dense, fine to coarse sand, fine to coarse sub-angular to sub-round gravel, little asphalt at surface Silt/Clay (ML/CL) 1.4-1.6' - 2.5Y 3/1, very dark gray, moist to wet, dense Sand and Gravel 1.6-2.0' - 10YR 2/1 and 10YR 2/2, black and very dark brown, wet, moderately dense, fine to coarse sand, fine sub-angular to sub-round gravel Silt (ML) 2.0-2.9' - 10 YR 4/2 and 4/3, dark grayish brown and brown, wet, dense to very dense, trace fine to coarse sub-round gravel 2.9-4.0' - no recovery	0.2	Breathing Zone = 0.0 ppm		
5		3.8 4.0	S2	Clayey Silt (ML) 4.0-7.8' - 7.5YR 4/6 and 4/4, strong brown and brown, moist to wet, very dense 7.8-8.0' - no recovery	0.2	Breathing Zone = 0.0 ppm		
10		4.0 4.0	S3	Clayey Silt (ML) 8.0-12.0' - 2.5Y 4/3 and 7.5YR 4/4, brown, moist to wet, very dense	0.4	Breathing Zone = 0.0 ppm		
15		3.9 4.0	S4	Clayey Silt (ML) 12.0-15.9' - 7.5YR 4/4 and 4/3 transitioning to 4/2 in 12.5-13.5', brown, wet, dense to moderately dense (decreasing with depth), little plasticity, trace fine to coarse sub-round to sub-angular gravel	0.2	Breathing Zone = 0.0 ppm		
20		4.0 4.0	S5	15.9-16.0' - no recovery Clayey Silt (ML) 16.0-20.0' - 7.5YR 4/2, brown, moist, moderately soft to soft, little plasticity, trace coarse gravel	0.1	Set Temporary Well from 15-20 ft bgs Collect sample from 15-20 ft bgs for VOC analysis TW-13S-GW-040315 @ 1015 Breathing Zone = 0.0 ppm		
	20.0			Bottom of Boring at 20.0 ft below ground surface	0.0			



PROJECT NUMBER:
480860

BORING NUMBER:
TW-14D SHEET 1 OF 2

SOIL BORING LOG

PROJECT : Dowell Depew

LOCATION : Depew, New York

ELEVATION : Not Measured

DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : ---

START : 4/1/2015

END : 4/1/2015

LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY						
5 10 15 20	4.0		S1	Silty Sand and Gravel (SM) 0.0-1.1' - 7.5YR 3/1 to 7.5YR 3/2, very dark gray to dark brown, wet, dense, fine to coarse sand, fine to coarse sub-round to sub-angular gravel, poorly sorted Silty Sand (SM) 1.1-1.8' - 10YR 2/1 to 2/2, black to very dark brown, wet, dense, little fine sub-angular to sub-round gravel, few coarse sand, trace debris (brick) at 1.8' Silt (ML) 1.8-3.25' - 10YR 3/2, very dark grayish brown, damp, very dense, slight plasticity, transitioning to 7.5YR 4/2 brown at 2.5', some clay, trace coarse sand Clayey Silt (ML) 3.25-4.0' - no recovery Clayey Silt (ML) 4.0-8.0' - 7.5YR 4/4 and 4/6, brown and strong brown, moist, very dense, no to slight plasticity	0.0 0.0 0.1	Breathing Zone = 0.0 ppm Breathing Zone = 0.0 ppm		
	8.0		S2	Clayey Silt (ML) 8.0-11.9' - 7.5YR 4/4 and 4/6, brown and strong brown, moist, very dense, no to slight plasticity	0.1	Breathing Zone = 0.0 ppm		
	12.0		S3	Clayey Silt (ML) 11.9-12.0' - no recovery Clayey Silt (ML) 12.0-16.0' - 7.5YR 4/2 to 10YR 4/2, brown to dark grayish brown, moist, moderately soft, dense, moderate plasticity, fine to coarse sub-round to sub-angular gravel	1.1 0.7	Breathing Zone = 0.0 ppm Breathing Zone = 0.0 ppm		
	16.0		S4	Clayey Silt (ML) 16.0-19.33' - 7.5YR 4/2 to 10YR 4/2, brown to dark grayish brown, moist, moderately soft, dense, moderate plasticity, fine to coarse sub-round to sub-angular gravel, increasing moisture	0.6	Breathing Zone = 0.0 ppm		
	20.0		S5	19.33-20.0' - no recovery	0.0	Breathing Zone = 0.0 ppm		
	20.0							



PROJECT NUMBER: 480860	BORING NUMBER: TW-14D SHEET 2 OF 2
SOIL BORING LOG	

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 4/1/2015 END : 4/1/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
		RECOVERY (ft)		DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
20.0				Clayey Silt (ML) 20.0-21.3' - 7.5YR 4/2 to 10YR 4/2, brown to dark grayish brown, moist, soft to moderately soft, moderate plasticity, fine to coarse sub-round to sub-angular gravel, increasing moisture 21.3-24.0' - no recovery		0.0	Breathing Zone = 0.0 ppm
		1.3 4.0	S6			0.2	Set Temporary Well from 22-27 ft bgs Collect sample from 22-27 ft bgs for VOC analysis TW-14D-GW-040115 @ 1145
24.0				Clayey Silt (ML) 24.0-27.0' - 7.5YR 4/3, brown, wet, moderately soft, dense, moderate plasticity		0.4	Breathing Zone = 0.0 ppm
		3.0 3.0	S7			0.0	Driller: Hit refusal at 27 ft bgs
27.0				Bottom of Boring at 27.0 ft below ground surface			
30							
35							
40							



PROJECT NUMBER:
480860

BORING NUMBER:
TW-14S SHEET 1 OF 1

SOIL BORING LOG

PROJECT : Dowell Depew

LOCATION : Depew, New York

ELEVATION : Not Measured

DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : ---

START : 4/2/2015

END : 4/2/2015

LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION	GRAPHIC LOG	PID (ppm)	COMMENTS		
	RECOVERY (ft)			DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY					
5	4.0	3.0	S1	Sand and Gravel 0.0-1.25' - 10YR 4/2, dark grayish brown, wet, moderately dense to dense, fine to medium sand, fine to coarse sub-angular to angular gravel, some coarse sand, some silt		0.0	Breathing Zone = 0.0		
		4.0		Silty Sand (SM) 1.25-1.85' - 10YR 2/1 and 2/2, black and very dark brown, wet, dense, little fine to coarse gravel, trace 10YR 4/4 dark yellowish brown mottling, few organics, trace debris (brick)					
	8.0	3.75	S2	Sandy Silt (ML/SM) 1.85-2.5' - 10YR 2/2, very dark brown, wet, moderately dense, little 10YR 5/2 grayish brown mottling			0.1	Breathing Zone = 0.0	
				4.0			Silt/Clayey Silt (ML) 2.5-3.0' - 10YR 4/3 to 4/4, brown to dark yellowish brown, moist to wet, dense to moderately dense, trace coarse sand	0.4	
							3.0-4.0' - no recovery 4.0-4.3' - Slough		
10	12.0	3.75	S3	Clayey Silt (ML) 4.3-7.75' - 10YR 4/6 to 7.5YR 4/6, dark yellowish brown to strong brown, moist, very dense to dense, trace coarse sand	0.1	Breathing Zone = 0.0			
					7.75-8.0' - no recovery				
					Clayey Silt (ML) 8.0-11.75' - 7.5YR 4/4, brown, moist, very dense to dense, trace coarse sand	1.8			
15	16.0	4.0	S4	11.75-12.0' - no recovery	1.1	Breathing Zone = 0.0			
				Silty Clay (ML) 12.0-14.5' - 7.5YR 4/4, brown, wet, moderately soft, dense, slight to no plasticity, transitioning to 7.5YR 4/3 brown in 12-13.5', trace coarse sand, trace fine gravel					
20	20.0	4.0	S5	Silt (ML) 14.5-16.0' - 7.5YR 4/2, brown, wet, soft to moderately soft, some clay, trace to little fine to very fine sand, trace coarse sand and fine to coarse sub-angular to sub-round gravel, non-plastic	0.2	0.2	Set Temporary Well from 15-20 ft bgs Collect sample from 15-20 ft bgs for VOC analysis TW-14S-GW-040315 @ 1105 Breathing Zone = 0.0		
				Silt (ML) 16.0-20.0' - 7.5YR 4/2, brown, wet, soft to moderately soft, some clay, trace to little fine to very fine sand, trace coarse sand and fine to coarse sub-angular to sub-round gravel, non-plastic					
				Bottom of Boring at 20.0 ft below ground surface		0.2			



PROJECT NUMBER: 480860	BORING NUMBER: TW-15D	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 4/2/2015 END : 4/2/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)			DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY				
5	4.0	2.5	S1	Silty Sand and Gravel (SM) 0.0-1.1' - 10YR 4/3, brown, wet/saturated, moderately dense, fine to medium sand, fine to coarse sub-angular to angular gravel			Breathing Zone = 0.0 ppm	
		4.0		Silty Sand (SM) 1.1-1.9' - 10YR 2/6 to 2/2, black to very dark brown, wet, moderately dense, fine grained, little to some gravel, trace to little organics, trace debris		1.9		
	8.0	3.8	S2	Silt (ML) 1.9-2.5' - 10YR 4/3 to 4/4, brown to dark yellowish brown, moist, medium stiff, very dense, trace black (10YR 2/1) mottling, trace fine to very fine sand and coarse sand, trace fine gravel			Breathing Zone = 0.0 ppm	
				2.5-4.0' - no recovery				0.3
				Clayey Silt (ML) 4.0-7.8' - 7.5YR 4/4 with 7.5YR 5/1, strong brown with trace gray mottling, moist to wet, very dense, slight plasticity, trace coarse sand and fine gravel				0.5
10	3.55	S3	7.8-8.0' - no recovery			Breathing Zone = 0.0 ppm		
			8.0-8.2' - slough				0.6	
			Clayey Silt (ML) 8.2-11.5' - 7.5YR 4/4 with 7.5YR 5/1, strong brown with trace gray mottling, moist to wet, very dense, slight plasticity, trace coarse sand and fine gravel				2.2	
15	12.0	S4	11.5-12.0' - no recovery			Breathing Zone = 0.0 ppm		
			Clayey Silt (ML) 12.0-14.8' - 7.5YR 4/2, brown, moist, dense, slight to little plasticity, trace coarse sand				2.7	
	16.0		Clayey Silt (ML) 14.8-16.0' - 7.5YR 4/2, brown, moist, dense, slight plasticity, trace coarse sand				0.4	
20	2.8	S5	Clayey Silt (ML) 16.0-18.8' - 7.5YR 4/2, brown, moist to wet, dense, slight plasticity, little very fine to fine sand, trace to little fine to coarse sub-round to sub-angular gravel			Breathing Zone = 0.0 ppm		
			4.0	18.8-20.0' - no recovery				0.1
	20.0							



PROJECT NUMBER: 480860	BORING NUMBER: TW-15S	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 4/2/2015 END : 4/2/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)			DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY				
4.0	3.5	4.0	S1	Silty Sand and Gravel (SM) 0.0-1.1' - 10YR 4/3, brown, wet, moderately dense, fine to medium sand, fine to coarse sub-round to angular gravel, few to some coarse sand	0.9	Breathing Zone = 0.0 ppm		
				Silty Sand (SM) 1.1-1.5' - 10Yr 2/1 to 10YR 2/2, black to very dark brown, wet, moderately dense, little to few fine to coarse gravel				
5.0	4.0		S2	Silt (ML) 1.5-1.9' - 10YR 4/4, dark yellowish brown, moist to wet, very dense, some clay, trace coarse sand	2.1	Breathing Zone = 0.0 ppm		
				Silt (ML) 1.9-3.0' - 10YR 4/2, dark grayish brown, moist to wet, dense to moderately dense, with little 10YR 5/6 yellowish brown and 10YR 2/2 very dark gray mottling, some clay				
8.0	3.8	4.0	S3	Clayey Silt (ML) 3.0-3.5' - 10YR 4/4 to 7.5YR 4/4, dark yellowish brown to brown, moist to wet, dense, trace coarse sand	0.4			
				Clayey Silt (ML) 3.5-4.0' - no recovery				
10.0	8.0		S3	Clayey Silt (ML) 4.0-4.2' - Slough	1.0	Breathing Zone = 0.0 ppm		
				Clayey Silt (ML) 4.2-7.8' - 7.5YR 4/4 to 7.5YR 4/6, brown to strong brown, damp to moist, very dense, trace gray (7.5YR 5/1) mottling, trace coarse sand				
12.0	3.5	4.0	S4	Clayey Silt (ML) 7.8-8.0' - no recovery	2.1			
				Clayey Silt (ML) 8.0-11.5' - 7.5YR 4/4 to 7.5YR 4/6, brown to strong brown, damp to moist, very dense, trace gray (7.5YR 5/1) mottling, trace coarse sand				
15.0	12.0		S4	Clayey Silt (ML) 11.5-12.0' - no recovery	0.8	Breathing Zone = 0.0 ppm		
				Clayey Silt (ML) 12.0-14.25' - 7.5YR 4/3, brown, moist, moderately soft, moderately dense, slight to little plasticity, trace coarse sand				
16.0	4.0	4.0	S5	Clayey Silt (ML) 14.25-16.0' - 7.5YR 4/3, brown, moist, moderately soft, moderately dense, slight to little plasticity, transitioning to 7.5YR 4/2 brown, trace coarse sand, trace fine to coarse sub-angular to angular gravel, trace very fine sand, softer with depth	0.8	Set Temporary Well from 15-20 ft bgs Collect sample from 15-20 ft bgs for VOC analysis TW-15S-GW-070315 @ 1040 Breathing Zone = 0.0 ppm		
				Clayey Silt (ML) 16.0-19.4' - 7.5YR 4/2, brown, moist to wet, soft, moderately dense, trace to little very fine sand, trace coarse sand and fine to coarse sub-angular to angular gravel				
20.0	3.4	4.0	S5	Clayey Silt (ML) 19.4-20.0' - no recovery	1.2			
				Clayey Silt (ML) 19.4-20.0' - no recovery				
	20.0				1.6			
				Bottom of Boring at 20.0 ft below ground surface	0.9			



PROJECT NUMBER: 480860	BORING NUMBER: TW-16D	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 4/3/2015 END : 4/3/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)						
5	4.0	3.25 4.0	S1	Silty Sand and Gravel (SM) 0.0-1.2' - 10YR 4/2, dark grayish brown, wet/saturated, moderately dense to dense, fine to medium sand, fine to coarse sub-angular to sub-round gravel, some coarse sand, few organics at surface, poorly sorted		0.4	Breathing Zone = 0.0 ppm
		4.0		Silty Sand (SM) 1.2-1.9' - 10YR 2/2 to 10YR 2/1, very dark brown to black, wet, dense, fine grained, little to few fine to coarse sub-angular gravel (pieces to 0.15'), trace 10YR 4/6 dark yellowish brown mottling in bottom 0.2', trace organics			
	8.0	3.75 4.0	S2	Silt (ML) 1.9-2.1' - 10YR 3/3, dark brown, moist, dense, few to some clay, trace coarse sand		0.3	Breathing Zone = 0.0 ppm
				Silt (ML) 2.1-3.25' - 10YR 4/4, brown, moist, very dense, with trace to little 10YR 4/6 dark yellowish brown mottling, some clay, trace medium to coarse sand			
				3.25-4.0' - no recovery 4.0-4.2' - slough			
10	3.75 4.0	S3	Clayey Silt (ML) 4.2-7.75' - 7.5 YR 4/4 to 7.5YR 4/6, brown to strong brown, moist, very dense, nonplastic to slight plasticity, trace medium to coarse sand and fine gravel	0.5	Breathing Zone = 0.0 ppm		
			7.75-8.0' - no recovery 8.0-8.1' - slough				
15	4.0 4.0	S4	11.75-12.0' - no recovery	0.8	Breathing Zone = 0.0 ppm		
			Clayey Silt (ML) 12.0-12.9' - 7.5YR 4/3, brown, wet, dense to moderately dense				
			Clayey Silt (ML) 12.9-13.25' - 7.5YR 4/3 and 10YR 5/6, brown and yellowish brown, wet, moderately dense, slight to little plasticity				
20	4.0 4.0	S5	Clayey Silt (ML) 13.25-16.0' - 7.5YR 4/3 and 4/2, brown and brown, wet to saturated, soft, moderately dense, trace coarse sand, trace fine sand in bottom 0.25'	0.4	Breathing Zone = 0.0 ppm		
			Clayey Silt (ML) 16.0-20.0' - 7.5YR 4/2, brown, wet/saturated, moderately soft, dense, slight plasticity, trace to little fine to very fine sand, trace fine to coarse sub-round to sub-angular gravel				
20.0							



PROJECT NUMBER: <h3 style="text-align: center;">480860</h3>	BORING NUMBER: <h3 style="text-align: center;">TW-16D</h3>
SHEET 2 OF 2	
<h2 style="margin: 0;">SOIL BORING LOG</h2>	

PROJECT : Dowell Depew LOCATION : Depew, New York

ELEVATION : Not Measured DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : --- START : 4/3/2015 END : 4/3/2015 LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SOIL DESCRIPTION			GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)		DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SAMPLER (TYPE)				
20.0		3.95 4.0	Clayey Silt (ML) 20.0-23.95' - 7.5YR 4/2, brown, wet/saturated, moderately soft, dense, slight plasticity, little to few fine to very fine sand, trace fine to coarse sub-round to sub-angular gravel	S6		0.3	Breathing Zone = 0.0 ppm Set Temporary Well from 23-28 ft bgs Collect sample from 23-28 ft bgs for VOC analysis TW-16D-GW-040315 @ 1355 Breathing Zone = 0.0 ppm	
24.0						0.3		
25		3.9 4.0	23.95-24.0' - no recovery Clayey Silt (ML) 24.0-27.9' - 7.5YR 4/2, brown, wet/saturated, moderately soft to moderately soft, slight plasticity, little to few fine to very fine sand, trace fine to coarse sub-round to sub-angular gravel	S7		0.5		
28.0						0.5		
30			27.9-28.0' - no recovery Bottom of Boring at 28.0 ft below ground surface			0.4		
35						0.4		
40								



PROJECT NUMBER: 480860	BORING NUMBER: TW-17D	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT : Dowell Depew

LOCATION : Depew, New York

ELEVATION : Not Measured

DRILLING CONTRACTOR : Parratt Wolf Inc.

DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242

WATER LEVELS : ---

START : 4/3/2015

END : 4/3/2015

LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)		SAMPLER (TYPE)	SOIL DESCRIPTION	GRAPHIC LOG	PID (ppm)	COMMENTS
		RECOVERY (ft)		DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
5		2.25 / 4.0	S1	Silty Sand and Gravel (SM) 0.0-0.8' - 10YR 4/2, dark grayish brown, wet/saturated, moderately dense, fine to medium sand, fine to coarse sub-angular to sub-round gravel, few to some coarse sand	[Graphic Log]	0.0	Breathing Zone = 0
				Silty Sand (SM) 0.8-1.1' - 10YR 2/1 to 2/2, black to very dark brown, wet to moist, moderately dense, trace fine to coarse sub-angular to angular gravel			
		4.0	S2	Silt (ML) 1.1-2.25' - 10YR 4/2 and 4/3, dark grayish brown and brown, wet/saturated, fine to medium sand, fine to coarse sub-angular to angular gravel	[Graphic Log]	0.6	Breathing Zone = 0
				2.25-4.0' - no recovery			
				4.0-4.25' - slough			
	0.75 / 4.0		Silt (ML) 4.25-4.75' - 7.5YR 4/4 and 4/6, brown and strong brown, wet, dense, trace coarse sand and fine sub-angular to angular gravel		0.0		
8.0				4.75-8.0' - no recovery			
10		4.0 / 4.0	S3	Clayey Silt (ML) 8.0-12.0' - 7.5YR 4/4, brown, moist to wet, very dense, trace coarse sand, trace fine gravel	[Graphic Log]	0.3	Breathing Zone = 0
12.0							
15		4.0 / 4.0	S4	Clayey Silt (ML) 12.0-15.0' - 7.5YR 4/4, brown, moist to wet, very dense to moderately dense, transitioning to 7.5YR 4/2 brown in 12.5-13.5 ft, trace 7.5YR 4/6 strong brown and 10YR 4/6 dark yellowish brown mottling, trace coarse sand and gravel, decreasing density with depth	[Graphic Log]	0.2	Breathing Zone = 0
16.0							
				Clayey Silt (ML) 15.0-16.0' - 7.5YR 4/2 and 10YR 4/2, brown and dark grayish brown, soft, moderately dense, trace to slight plasticity, trace coarse sand		0.3	Breathing Zone = 0
				Clayey Silt (ML) 16.0-18.75' - 10YR 4/2 and 7.5YR 4/2, dark grayish brown and brown, wet, soft to moderately soft, trace to little very fine to fine sand, trace coarse sand and fine to coarse sub-angular to sub-round gravel, non-plastic		0.3	
		2.75 / 4.0	S5				
				18.75-20.0' - no recovery			
20	20.0						



PROJECT NUMBER: <p style="text-align: center; margin: 0;">480860</p>	BORING NUMBER: <p style="text-align: center; margin: 0;">TW-17D</p>
SHEET 2 OF 2	
<h2 style="margin: 0;">SOIL BORING LOG</h2>	

PROJECT : Dowell Depew	LOCATION : Depew, New York
ELEVATION : Not Measured	DRILLING CONTRACTOR : Parratt Wolf Inc.
DRILLING METHOD AND EQUIPMENT : DPT-Geoprobe 2278 DT #242	
WATER LEVELS : ---	START : 4/3/2015
	END : 4/3/2015
	LOGGER : R. Clennon

DEPTH BELOW SURFACE AND ELEVATION (ft)	SAMPLE INTERVAL (ft)			SOIL DESCRIPTION		GRAPHIC LOG	PID (ppm)	COMMENTS
	RECOVERY (ft)		SAMPLER (TYPE)	DEPTH INTERVAL, SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY				
20.0		3.1 4.0	S6	Clayey Silt (ML) 20.0-23.1' - 7.5YR 4/2, brown, wet, moderately soft, dense, little to few fine to very fine sand, trace coarse sand and fine to coarse sub-round to sub-angular gravel	0.3	Breathing Zone = 0		
24.0				23.1-24.0' - no recovery	0.1	Set Temporary Well from 22.5-27.5 ft bgs Collect sample from 22.5-27.5 ft bgs for VOC analysis TW-17D-GW-040315 @ 1445 Breathing Zone = 0		
25		3.5 3.5	S7	Clayey Silt (ML) 24.0-27.5' - 7.5YR 4/2, brown, wet, moderately soft, dense, little to few fine to very fine sand, trace coarse sand and fine to coarse sub-round to sub-angular gravel, sand content increasing with depth	0.3			
27.5				Bottom of Boring at 27.5 ft below ground surface	0.2			
30								
35								
40								

Appendix F
Excavation Work Plan

APPENDIX F - EXCAVATION WORK PLAN

This Excavation Work Plan (EWP) provides guidance for intrusive work that will be performed at the at the Former Dowell Facility (the Site) in Depew, New York (VCA No. B9-0586-00-10, Site No. V-00410-9) in the future. Additional federal, state, local, and project-level requirements may be communicated in a workplan for future work.

1.1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the New York State Department of Environmental Conservation (NYSDEC). Table 1-1 of the SMP includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix C (of the SMP), *List of Site Contacts*.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed below the soil cover, and estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of constituents of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP and 29 *Code of Federal Regulations* (CFR) § 1910.120;
- A copy of the contractor's health and safety plan (HASP), in electronic format;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

1.2 SOIL SCREENING METHODS

Visual, olfactory, and instrument-based (e.g. photoionization detector) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially

contaminated material (remaining contamination). Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the Certificate of Completion (COC).

Soils will be segregated based on previous environmental data and screening results into material that requires offsite disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Further discussion of offsite disposal of materials and on-site reuse is provided below.

13 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters, and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected, and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the NYSDEC.

14 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the Site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate federal, state, local, and New York State Department of Transportation requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete truck wash waters will be collected and disposed of offsite in an appropriate manner.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of offsite soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

15 MATERIALS TRANSPORT OFFSITE

All transport of materials will be performed by licensed haulers in accordance with appropriate federal, state, and local regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck transport routes will be determined and described in the corresponding workplan developed for any future activities involving excavation. All trucks loaded with site materials will exit the vicinity of the Site using only these approved truck routes. The most appropriate route will take into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting offsite queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site work and development.

Queuing of trucks will be performed on-site in order to minimize offsite disturbance. Offsite queuing will be prohibited.

16 MATERIALS DISPOSAL OFFSITE

All material excavated and removed from the Site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, state (including 6 NYCRR Part 360), and federal regulations. If disposal of material from this Site is proposed for unregulated offsite disposal (i.e., clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated offsite management of materials from this Site will not occur without formal NYSDEC approval.

Offsite disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility,

etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the corresponding Periodic Review Report (PRR). This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading, and facility receipts.

Nonhazardous historical fill and contaminated soils taken offsite will be handled, at minimum, as a Municipal Solid Waste per 6 NYCRR Part 360-1.2. Material that does not meet Unrestricted Soil Cleanup Objectives (SCOs) is prohibited from being taken to a New York State recycling facility (6 NYCRR Part 360-16 Registration Facility).

1.7 MATERIALS REUSE ON-SITE

The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historical fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the Site will not be reused on-site.

1.8 FLUIDS MANAGEMENT

All liquids to be removed from the Site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, state, and federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the Site, and will be managed offsite, unless prior approval is obtained from the NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream, or river) will be performed under a State Pollution Discharge Elimination System (SPDES) permit.

1.9 SOIL COVER RESTORATION

After the completion of soil removal and any other invasive activities the soil cover will be restored in a manner that complies with the EWP that was written and approved for the work that caused the disturbance. The existing soil cover is comprised of a minimum of 12 inches of native soil or crusher run stone. If the type of soil cover changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper

surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent PRR and in an updated SMP.

1.10 BACKFILL FROM OFFSITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at <http://www.dec.ny.gov/regulations/67386.html>, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6 NYCRR § 375-6.7(d). Soils that meet “exempt” fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the Site without prior approval by the NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the Site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

1.11 STORMWATER POLLUTION PREVENTION

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

1.12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during subsurface excavations or development-related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (Target Analyte List metals; Target Compound List [TCL] volatiles and semivolatiles, TCL pesticides, and polychlorinated biphenyls), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the corresponding PRR.

1.13 COMMUNITY AIR MONITORING PLAN

A figure showing the location of air sampling stations based on generally prevailing wind conditions will be included in the associated workplan. These locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations.

Exceedances of action levels listed in the Community Air Monitoring Plan (CAMP) will be reported to NYSDEC and NYSDOH Project Managers.

1.14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors offsite and on-site. Specific odor control methods to be used on a routine basis will be defined and detailed in a workplan for any future intrusive work. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted, and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the remedial party's Engineer, and any measures that are implemented will be discussed in the PRR.

All necessary means will be employed to prevent on-site and offsite nuisances. These measures may include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors

develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

1.15 DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

1.16 OTHER NUISANCES

A plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all intrusive work.

A plan will be developed and utilized by the contractor for all-intrusive work to ensure compliance with local noise control ordinances.

Appendix G

Site Management Forms

**FORMER DOWELL FACILITY – DEPEW, NEW YORK
SITE MANAGEMENT PLAN**

NYSDEC SITE NO. V-00410-9

SITE-WIDE INSPECTION FORM

Date: _____ **Inspector:** _____

Weather: _____ **Signature:** _____

Temperature: _____ **Company:** _____

Inspection Year: _____

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access		
Soil /Grass Cover		
Security Fencing, Gates and Locks		
Site Drainage		
Trees, Bushes, Other Vegetation		
Miscellaneous		

**APPENDIX G
FORMER DOWELL FACILITY - DEPEW, NEW YORK
SITE MANAGEMENT PLAN**

NYSDEC SITE NO. V-00410-9

ENGINEERING CONTROL SYSTEMS INSPECTION FORM

Component	Item	Observations
Soil Cover	Evaluate the condition and continued effectiveness of the soil cover and whether the soil cover continues to perform as designed by inspecting for the following: Obvious subsidence, depressions or cracks. Evidence of ponded water Stressed or missing vegetation Soil erosion due to surface runoff Animal burrows Any other visible issues	

Date: _____

Inspector: _____