

RECEIVED

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921

NOV 01 2016

**Technical Assistance, Environmental Liability
Clarification or Post-Closure Modification Request**

Form 4400-237 (R 9/15)

Page 1 of 8

BY: 

Notice: Use this form to request a **written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This form should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do **not** use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at:

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program and the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see:

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

Page 2 of 8

Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name	First	MI	Organization/ Business Name		
Melstrom	Dan		Veit USA		
Mailing Address			City	State	ZIP Code
2445 South 179th Street, Suite E			New Berlin	WI	53146
Phone # (include area code)		Fax # (include area code)		Email	
(414) 704-8978				dmelstrom@veitusa.com	

The requester listed above: (select all that apply)

- Is currently the owner
 Is considering selling the Property
 Is renting or leasing the Property
 Is considering acquiring the Property
 Is a lender with a mortgagee interest in the Property
 Other. Explain the status of the Property with respect to the applicant:

Contractor is requesting that the DNR grant the ch. NR 718.12 exemption approval, as well as an exemption to ch. NR 718.12(1) (c) 6, for the disposal of soil from the proposed development at the R&R Excavating Site.

Contact Information (to be contacted with questions about this request) Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name		
Melstrom	Dan		Veit USA		
Mailing Address			City	State	ZIP Code
2445 South 179th Street, Suite E			New Berlin	WI	53146
Phone # (include area code)		Fax # (include area code)		Email	
(414) 704-8978				dmelstrom@veitusa.com	

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name		
Frieseke	Rick		Friess Environmental Consulting, Inc.		
Mailing Address			City	State	ZIP Code
6637 North Sidney Place			Milwaukee	WI	53209
Phone # (include area code)		Fax # (include area code)		Email	
(414) 228-9815		(414) 228-9816		rfrieseke@fecinc.us	

Property Owner (if different from requester)

Contact Last Name	First	MI	Organization/ Business Name		
Beier	Jim		CLEMENT J. ZABLOCKI VA MEDICAL CENTER		
Mailing Address			City	State	ZIP Code
5000 W. National Avenue; Building 70, Room 250E			Milwaukee	WI	53295
Phone # (include area code)		Fax # (include area code)		Email	
(414) 384-2000					

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

Page 3 of 8

Section 2. Property Information

Property Name CLEMENT J. ZABLOCKI VA MEDICAL CENTER			FID No. (if known) 341041470	
BRRTS No. (if known) 02-41-563846		Parcel Identification Number 437-9999-000		
Street Address 5000 W. National Avenue		City Milwaukee	State WI	ZIP Code 53295
County Milwaukee	Municipality where the Property is located <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village of Milwaukee	Property is composed of: <input checked="" type="radio"/> Single tax parcel <input type="radio"/> Multiple tax parcels		Property Size Acres 123

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

No Yes

Date requested by: 11/15/2016

Reason: Construction schedules to begin

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

No. Include the fee that is required for your request in Section 3, 4 or 5.

Yes. Do not include a separate fee. This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:

Section 3. Technical Assistance or Post-Closure Modifications;

Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: [Numbers in brackets are for WI DNR Use]

- No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of \$350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of \$700.**
- Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of \$1050.**
- Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of \$1050.**
- Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of \$1050.**
- Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of \$1050.**
- Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of \$350**
- Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of \$425.**
- Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of \$425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

- Schedule a Technical Assistance Meeting - **Include a fee of \$700.**
- Hazardous Waste Determination - **Include a fee of \$700.**
- Other Technical Assistance - **Include a fee of \$700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of \$1050, and:**
 - Include a fee of \$300 for sites with residual soil contamination; and
 - Include a fee of \$350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Technical Assistance, Environmental Liability
Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

Page 4 of 8

Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

Section 4. Request for Liability Clarification

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. [Numbers in brackets are for DNR Use]

"Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]

❖ Include a fee of \$700.

Provide the following documentation:

- (1) ownership status of the real Property, and/or the personal Property and fixtures;
- (2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;
- (3) the date the environmental assessment was conducted by the lender;
- (4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.
- (5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.
- (6) a copy of the Property deed with the correct legal description; and,
- (7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).
- (8) If no sampling was done, please provide reasoning as to why it was not conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292.21(1)(c)2., h.-i., Wis. Stats.:
 - h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.
 - i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

"Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]

❖ Include a fee of \$700.

Provide the following documentation:

- (1) ownership status of the Property;
- (2) the date of Property acquisition by the representative;
- (3) the means by which the Property was acquired;
- (4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;
- (5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and
- (6) a copy of the Property deed with the correct legal description.

Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)

- hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];
- Perceived environmental contamination - [649];
- hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or
- solid waste - s. 292.23 (2), Wis. Stats. [649].

❖ Include a fee of \$700, a summary of the environmental liability clarification being requested, and the following:

- (1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).
- (2) current and proposed ownership status of the Property;
- (3) date and means by which the Property was acquired by the LGU, where applicable;
- (4) a map and the ¼, ¼ section location of the Property;
- (5) summary of current uses of the Property;
- (6) intended or potential use(s) of the Property;
- (7) descriptions of other investigations that have taken place on the Property; and
- (8) (for solid waste clarifications) a summary of the license history of the facility.

Section 4. Request for Liability Clarification (cont.)

Lease liability clarification - s. 292.55, Wis. Stats. [646]

❖ Include a fee of \$700 for a single Property, or \$1400 for multiple Properties and the information listed below:

- (1) a copy of the proposed lease;
- (2) the name of the current owner of the Property and the person who will lease the Property;
- (3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;
- (4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;
- (5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and
- (6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

General or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below.

❖ Include a fee of \$700 and an adequate summary of relevant environmental work to date.

No Action Required (NAR) - NR 716.05, [682]

❖ Include a fee of \$700.

Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.

Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]

❖ Include a fee of \$700.

- Include a copy of any closure documents if a state agency other than DNR approved the closure.

Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

Technical Assistance, Environmental Liability
Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

Page 6 of 8

Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/igu.html#tabx4.

Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

❖ Include a fee of \$700, and the information listed below:

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description; and,
- (3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-105agrmt.pdf).

Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

❖ Include a fee of \$700, and the information listed below:

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description; and,
- (3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-106agrmt.pdf).

Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

❖ Include a fee of \$1400, and the information listed below:

- (1) a draft schedule for remediation; and,
- (2) the name, mailing address, phone and email for each party to the agreement.

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

Phase I Environmental Site Assessment Report - Date: _____

Phase II Environmental Site Assessment Report - Date: 11/12/2015

Legal Description of Property (required for all liability requests and specialized agreements)

Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

Groundwater Soil Sediment Other medium - Describe: _____

Date of Collection: 10/10/2016

A copy of the closure letter and submittal materials

Draft tax cancellation agreement

Draft agreement for assignment of tax foreclosure judgment

Other report(s) or information - Describe: Soil Placement Approval Request dated October 27, 2016

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

Yes - Date (if known): 06/26/2015

No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at: dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.

Section 7. Certification by the Person who completed this form

- I am the person submitting this request (requester)
- I prepared this request for: Veit USA
Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

Rick Frasseke PF
Signature

10/31/16
Date Signed

President @ FEC, INC
Title

(414) 229-9815
Telephone Number (include area code)

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

Page 8 of 8

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a _____ with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see:

DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

DNR WEST CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



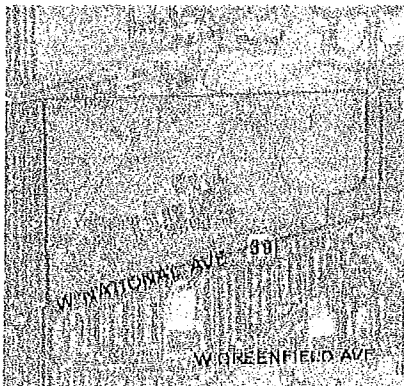
Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

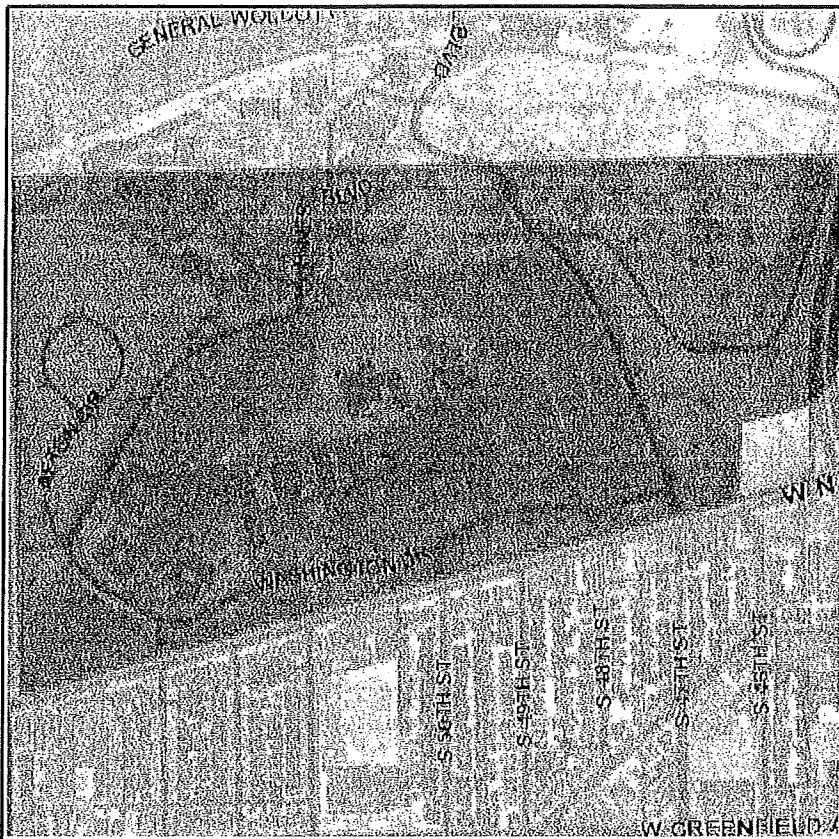
Milwaukee County Land Information Parcel Report

TAXKEY: 4379999000

Report generated 11/1/2016 10:09:35 AM



Parcel location within Milwaukee County



Selected parcel highlighted

Parcel Information

TAXKEY: 4379999000

Record Date: 03/12/1976

Owner(s): SOLDIERS HOME

Address: 4500 W NATIONAL AVE

Municipality: Milwaukee

Acres: 122.53

Assessed Value: \$50,327,000

Parcel Description: FEDERAL

Zoning Description:

Legal Description: LANDS IN SE & NE 1/4 SEC 35-7-21 ALL S OF 1/4 SECTION LINE & BOUNDED E-S & W BY CITY LIMITS EXC ELY PART DEEDED FOR STADIUM

Parcel Photo
Not Available



Parcel photo

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

October 27, 2016

REC'D OCT 27 2016



Mr. Greg Michael
Wisconsin Department of Natural Resources
2300 North Martin Luther King Jr. Drive
Milwaukee, WI 53212

RE: Soil Placement Approval Request for the Proposed VA Parking Structure
Located at 5000 West National Avenue in Milwaukee, Wisconsin — DNR
BRRTs v# 02-41-563846; FEC Project No. 160806

Dear Mr. Michael:

341 041470

On behalf of Veit USA (Veit), **Friess Environmental Consulting, Inc. (FEC)** submits this letter to request that the Wisconsin Department of Natural Resources (DNR) grant a ch. NR 718.12 Wisconsin Administrative Code (WAC) approval for approximately 7,000 cubic yards (CY) of soil scheduled for excavation from the above-referenced property. The soils are proposed to be disposed of at the R&R excavating site ("the "Site") located near the intersection of Highway 60 and Highway I in the Town of Cedarburg.

This letter provides a description of the generator site history and re-development plans, presents a summary of characterization data obtained to date for the generator site, and provides our conclusions and recommendations regarding the disposal of the soils. This letter will also discuss the continued protectiveness of human health and the environment through management of these soils and the low hazard risk to remove and place the soils at the R&R Excavating Site.

R&R Excavating Site

The Site is located near the intersection of Highway 60 and Highway I in the Town of Cedarburg. The Site totals approximately 39.5-acres of which 11 acres had historically been quarried and subsequently filled as part of the quarry reclamation plan. The property is bordered by vacant agricultural land to the south and east, former quarries to the north and west, and Highway I farther to the east.

The Site meets the locational criteria outlined in ch. NR 718.12(1)(c) WAC. The soils placed at the R&R Excavating site have not been and will not be located within a floodplain; within 100 feet of any wetland or critical habitat area; within 300 feet of any navigable river, stream, lake, pond or flowage; or within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well. In addition, soils have not been placed and will not be placed within 3 feet of the groundwater table. Information related to the Site as it relates to the ch. NR 718.12 locational criteria has been provided to and approved by the DNR.

The soils proposed to be placed at the Site as part of this ch. NR 718.12 and/or LHE approval request will be placed at a depth of approximately 20 feet below the proposed finished grade and at a distance greater than 3 feet above the groundwater table at the Site. Based on the relatively insoluble and/or highly immobile nature of the contaminants, the planned capping of the Site, and the increased distance from the groundwater table at the disposal site versus the generator site, we request an exemption to the locational criteria of ch. NR 718.12(1)(c)6 to allow placement of the contaminated soil at a depth greater than the depth of the original excavation from which it was removed.

Although it is not a condition of the approved reclamation plan, nor does the Site have groundwater quality exceedances, the owner of the Site will accept placement of the Site on the DNR GIS registry following completion of the reclamation plan as part of the ch. NR 718.12 approval to accept soils at the Site. The GIS registry would prohibit construction of a potable well on the Site without prior DNR approval, document soil conditions on the Site, and implement a cap maintenance plan (CMP) for the Site. No development is planned as part of the reclamation.

Response Action (Generator) Site Description

The development project is located at 5000 West National Avenue in Milwaukee, Wisconsin. Several environmental studies have been conducted at the Site including Phase I and II Environmental Site Assessments and soil management sampling.

Geotechnical and environmental site assessments have been conducted on the site. Subsurface soil quality in the area of the proposed parking structure, current Lot 7, was unknown and thought to possibly contain hazardous substances from historic undocumented fill. The following environmental subsurface investigation activities were conducted to assess if historical soil placement and/or land usage negatively impacted the property in the area of the proposed parking structure. In

In April 2015, eight soil borings (B-1 through B-8 and) six soil probes (GP-1 through GP-6) were conducted at the locations depicted on the attached Figures. Soil samples were collected at each soil boring and probe location for geotechnical and environmental testing. Soil samples were field screened for the presence of volatile organic vapors. One composite soil sample from each soil boring was collected and submitted for laboratory analysis of gasoline range organics (GRO), diesel range organics (DRO), petroleum volatile organic compounds (PVOCs), poly nuclear aromatic hydrocarbons (PAHs), RCRA metals, and polychlorinated biphenyls (PCBs).

Based on information obtained during the installation of environmental soil borings, the geology beneath the site generally consists of reworked silty clay and silty sand with few sand layers to a maximum depth of approximately 15 feet bgs. Native gray clay was encountered beneath the fill soils. Gravelly sand base

course was present beneath the asphalt pavement. Groundwater was encountered at a depth of about 20 feet bgs. Perched water may be present; however groundwater will not be encountered during construction. Specific soil characteristics and depths encountered during drilling activities are shown on the soil boring and probe logs. Soil samples from the soil probes were screened with a PID. No volatile vapors or indications of contaminants were present in the soil samples. Six (6) soil samples representing soils to be excavated and removed during construction were submitted for analytical testing.

No concentrations of PVOCs were identified in the soil samples above their respective residual contaminant levels (RCLs), with the exception of benzene within GP-3. Additional sampling and water leach testing were conducted in this area to confirm the impacts and/or demonstrate the benzene concentration is not a risk to groundwater.

One or more PAH constituents were identified in soil samples from soil borings GP-1 through GP-6. The concentrations of benzo(a)anthracene, benzo(a)pyrene, enzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were reported above applicable WDNR soil quality standards for protection of the direct contact pathway (nonindustrial land use setting) and/or protection of groundwater. Other SVOCs were also detected but below applicable soil quality standards.

RCRA metals concentrations were reported below WDNR soil quality standards with the exception of arsenic and lead within soil borings GP-2, GP-3, and GP-5. However, the detected concentrations of arsenic are below 8 mg/kg, which was established¹ as the statewide soil-arsenic background threshold value. The lead concentrations reported within soil borings GP-3 and GP-5 are above the WDNR soil quality standard for the protection of groundwater but below the standard for protection of the direct contact pathway. All PCB Aroclors were reported below the laboratory limits of detection.

The results did indicate concentrations of polynuclear aromatic hydrocarbons (PAHs) and select metals that will require soils management during construction. As discussed above, additional sampling was conducted to further evaluate the soils and confirm that soil impacts are not a significant risk to groundwater.

In October 2016, FEC conducted five additional soil probes to assist with the evaluation of soils to be removed during the development. The total depth of the excavation is approximately 10 feet bgs. Eighteen (18) additional soil samples were collected and submitted from the generator site for analytical testing of PVOCs, lead and/or PAHs. The soil samples collected are considered representative of the soils to be disposed of at the R&R Excavating site. In addition, five soil samples with a concentration of benzene, PAHs and lead above the DNR residual contaminant levels (RCLs) for the protection of groundwater were submitted for water leach testing to confirm the soils are not a significant risk to groundwater.

Based on the results of the analytical testing, the locational criteria of the R&R Excavating site, and the extremely conservative nature of the water leach test, the soils proposed for disposal do not pose a risk to groundwater or human health and safety. The results of the sampling conducted by Sigma and the results of the recent evaluation conducted by FEC for the generator site are attached.

The soil proposed for placement is excess soil to be generated during excavation for building construction as part of redevelopment. The development will involve the construction of parking structure. Reworked fill is present on the site. Information regarding the development plans is included with this request.

Based on the remedial actions already completed on the site and the results of the recent subsurface explorations, there are no suspected or significant sources of impact to the soil. Although the intent is to minimize any off-site transport, approximately 7,000 CY of soil are anticipated to require off-site management. The fill soils can be managed with a ch. NR 718.12 approval for disposal at the R&R Excavating site. Based on a review of the analytical data from the generator site, the concentrations are less, as compared to those soils placed at the R&R Excavating Site under previous disposal approvals.

Development Plans

The Clement J. Zablocki Veterans Affairs Medical Center (VAMC) intends to erect a four story parking structure to be located in an existing surface parking lots (Lots 7,8,9) to alleviate a shortage of parking for VAMC employees. The structure will replace a portion of existing 500 paved surface stalls, for a net result of 257 additional parking spacing on campus. The parking structure will incorporate storm water management features to control storm water runoff and improve water quality. Modifications to Warehouse Way, Lincoln Drive, West Washington Street and General Mitchell Boulevard will include improved traffic patterns for entering and exiting the parking lots and structure. Construction is anticipated to begin in November 2016 and be completed by November 2017. The site plan for the proposed development is attached.

It is anticipated that approximately 7,000 CY of material will be generated during construction of the parking lot, foundations, utility construction and site grading that is geotechnically unsuitable to be reused at the site. These soils will be disposed of at the R&R Excavating site. The surplus fill soils that cannot be reused at the site will require export. The historic fill soils are proposed for disposal through a ch. NR 718.12 exemption.

The earthmoving activities will be monitored for unanticipated environmental conditions (such as a buried tank or barrel, strong unidentifiable odors, discolored soil, or volatile vapors) and to manage the materials appropriately, if necessary.

Conclusions

Approximately 7,000 CY of soils would originate from the generator site. The soils contain impacts that are likely attributable to the fill soils and historic use as a parking lot. The soils to be removed are associated with footing, foundation, and utility excavation related to the construction of the parking structure. The soils cannot be transported off-site as clean fill.

We request that the DNR grant the ch. NR 718.12 exemption approval, as well as an exemption to ch. NR 718.12(1) (c) 6, for the disposal of soil from the proposed development at the R&R Excavating Site.

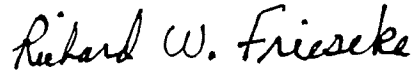
We appreciate your assistance with this request. If you have any questions or comments regarding this submittal, please contact us at (414) 228-9815.

Respectfully,

Friess Environmental Consulting, Inc.



Trenton J. Ott
Project Manager



Richard W. Frieseke, P.E.
President

160806a

Project Contacts

Disposal Site

R&R Excavating Site
County Road I
Cedarburg, WI 53012
SE ¼ of the NE ¼, Section 22, Township 10 N, Range 21 E
WTM Coordinates: 683133, 318082; 43.317884 Latitude, -87.988200 Longitude

Charmoli Holdings, LLC
Mr. Dick and Maxine Charmoli
320 Douglas Lane
Cedarburg, WI 53012
(262) 377-5736

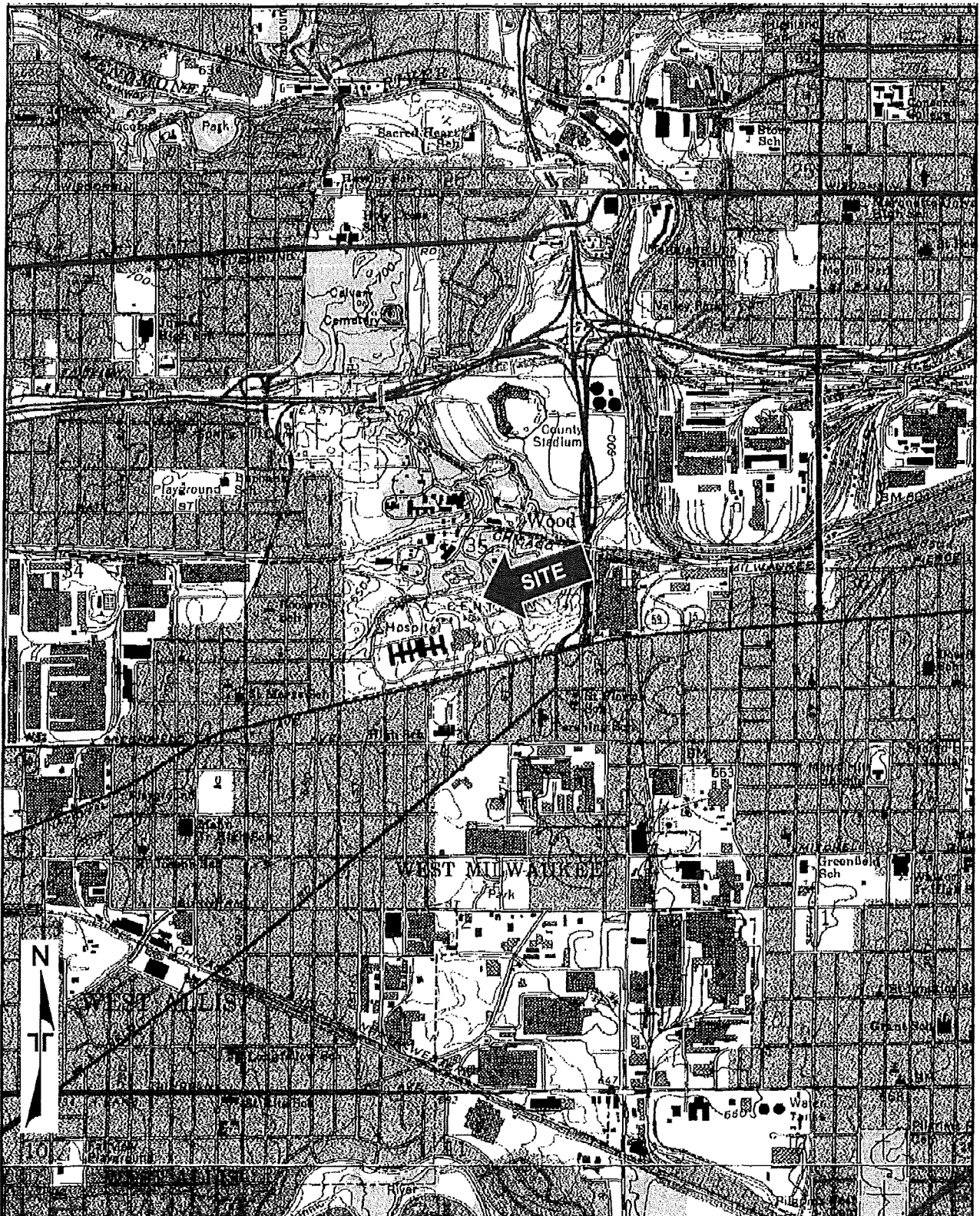
Friess Environmental Consulting, Inc.
Mr. Rick Frieseke
6637 North Sidney Place
Milwaukee, WI 53209
(414) 228-9815

Generator Site

Proposed VA Parking Structure
CLEMENT J. ZABLOCKI VA MEDICAL CENTER
Mr. Jim Beier Attn: Facility Management Division
5000 W. National Avenue
Building 70, Room 250E
Milwaukee, Wisconsin 53295
Phone: (414) 384-2000
Northwest ¼ Southeast ¼ Section 35, Township 7 North, Range 21 East

Veit USA
Milwaukee Office:
Mr. Dan Melstrom
2445 South 179th Street, Suite E
New Berlin, WI 53146
(414) 704-8978

$X = 684833.72$ $Y = 285146.95$



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
 QUADRANGLES INCLUDE: WALWATOSA, WI (1/1/1994), MILWAUKEE, WI (1/1/1971), HALES CORNERS, WI (1/1/1994) and GREENDALE, WI (1/1/1976).

Project Manager: JDW	Project No. MR155043
Drawn by: JDW	Scale: 1"=24,000 SF
Checked by: PAT	File Name:
Approved by: PAT	Date: 06/2015

Terracon
 9856 South 57th Street
 Franklin, WI 53132

SITE LOCATION
 Milwaukee VA Hospital Lot 7 Parking Garage
 5000 W. National Avenue
 Milwaukee, WI

Exhibit A-1

Project Contacts

Disposal Site

R&R Excavating Site
County Road I
Cedarburg, WI 53012
SE ¼ of the NE ¼, Section 22, Township 10 N, Range 21 E
WTM Coordinates: 683133, 318082; 43.317884 Latitude, -87.988200 Longitude

Charmoli Holdings, LLC
Mr. Dick and Maxine Charmoli
320 Douglas Lane
Cedarburg, WI 53012
(262) 377-5736

Friess Environmental Consulting, Inc.
Mr. Rick Frieseke
6637 North Sidney Place
Milwaukee, WI 53209
(414) 228-9815

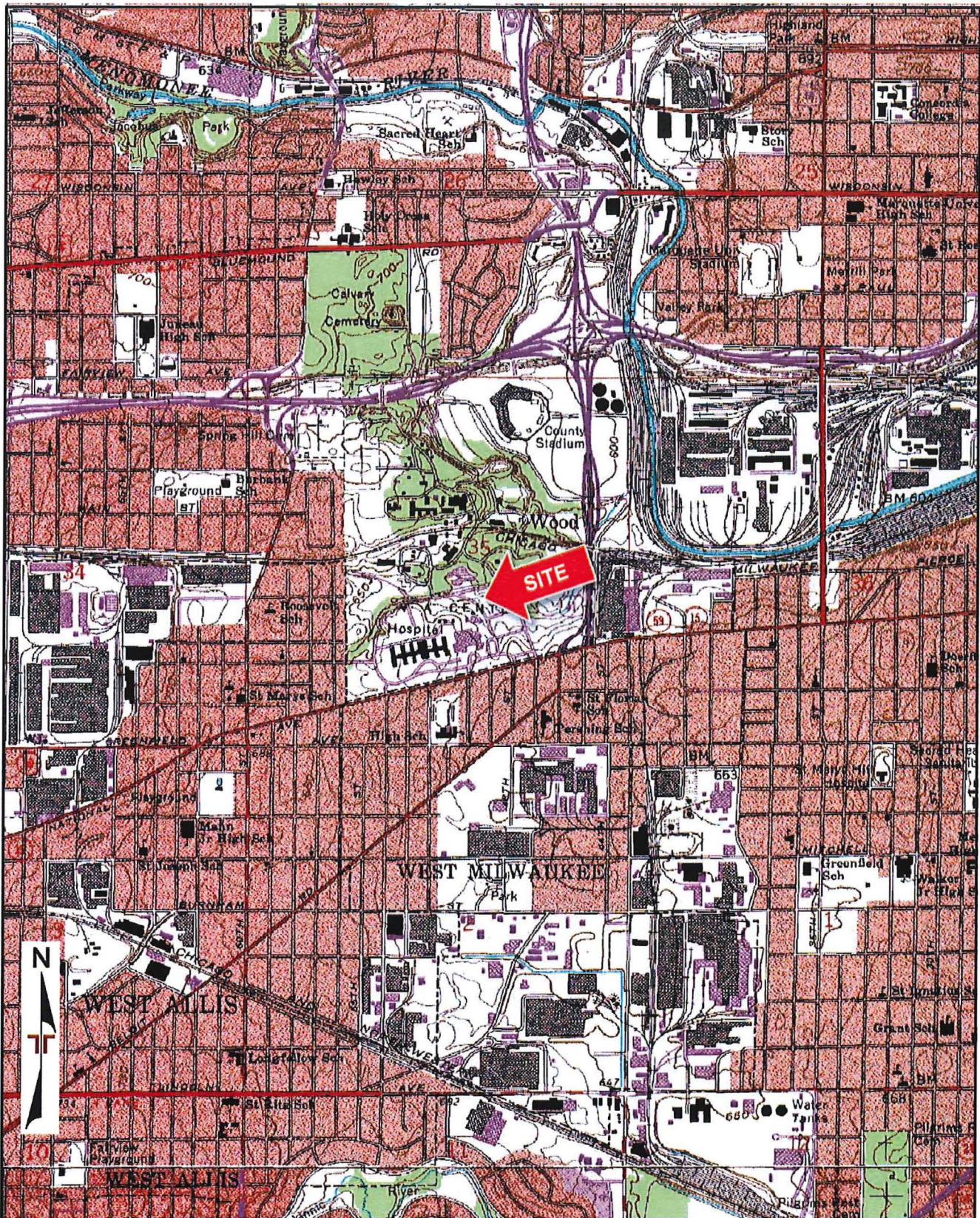
Generator Site

Proposed VA Parking Structure
CLEMENT J. ZABLOCKI VA MEDICAL CENTER
Mr. Jim Beier Attn: Facility Management Division
5000 W. National Avenue
Building 70, Room 250E
Milwaukee, Wisconsin 53295
Phone: (414) 384-2000
Southwest ¼ Southwest ¼ Section 20, Township 7 North, Range 22

Veit USA
Milwaukee Office:
Mr. Dan Melstrom
2445 South 179th Street, Suite E
New Berlin, WI 53146
(414) 704-8978

Generator Site Information

1. Site Diagrams
2. Terracon Geotechnical Study April 2015
3. Sigma Phase II Sampling Data April 2015
4. FEC Sampling Data October 2016
5. Construction Plans



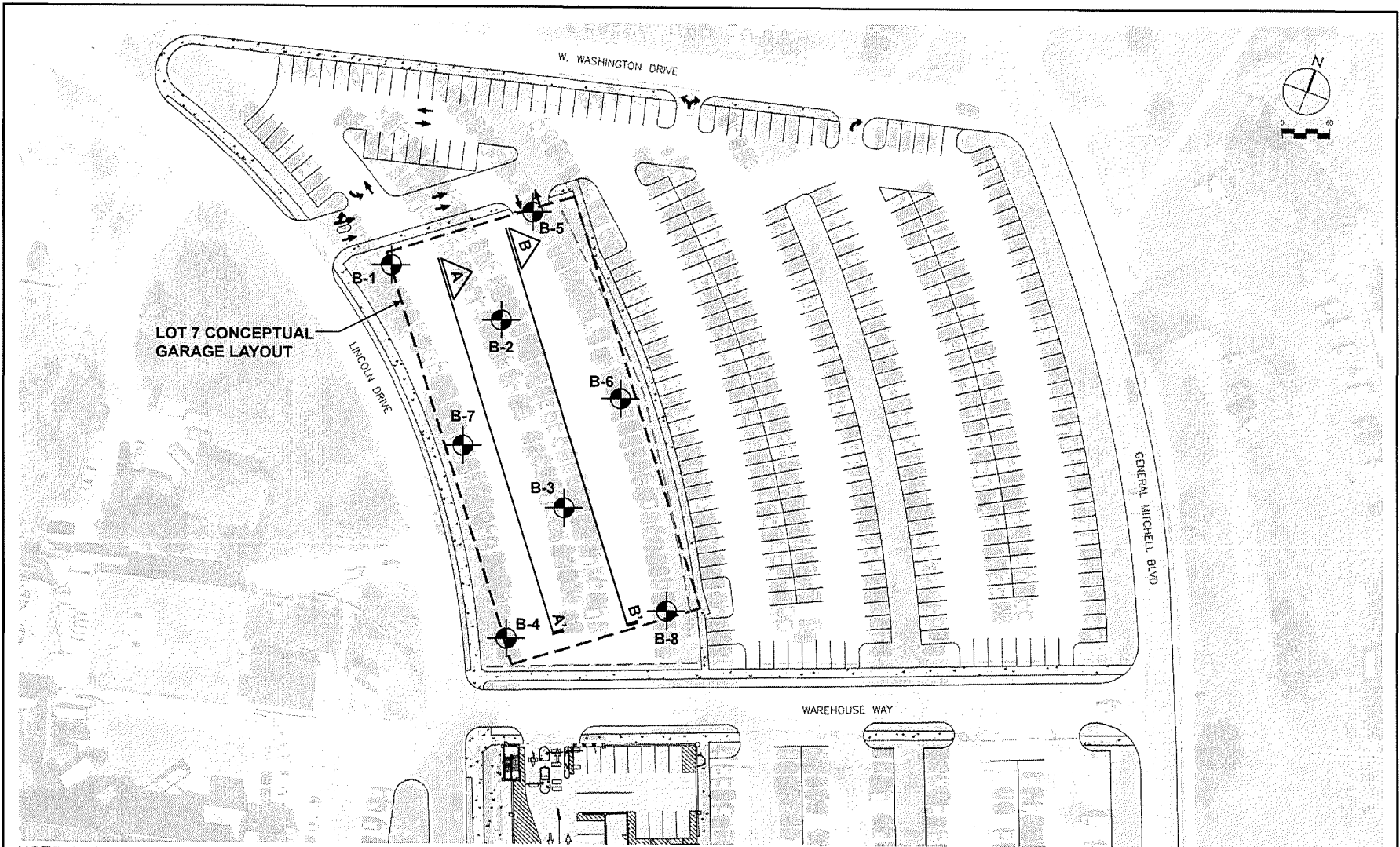
TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
 QUADRANGLES INCLUDE: WAUWATOSA, WI (1/1/1994), MILWAUKEE, WI (1/1/1971), HALES CORNERS, WI (1/1/1994) and GREENDALE, WI (1/1/1976).

Project Manager: JDW	Project No. MR155043
Drawn by: JDW	Scale: 1"=24,000 SF
Checked by: PAT	File Name:
Approved by: PAT	Date: 06/2015

Terracon
 9856 South 57th Street
 Franklin, WI 53132




SITE LOCATION
 Milwaukee VA Hospital Lot 7 Parking Garage
 5000 W. National Avenue
 Milwaukee, WI

Exhibit
A-1



LOT 7 CONCEPTUAL GARAGE LAYOUT

NOTE: BASE MAP CONCEPTUAL GARAGE LAYOUT PROVIDED BY GUIDON DESIGN LLC

-  TERRACON SOIL BORING LOCATION (APRIL & MAY 2015)
-  TERRACON SUBSURFACE PROFILE CROSS SECTION LOCATION
-  TERRACON REFRACTION MICROTREMOR SURVEY LINE LOCATION

REV	DATE	BY	DESCRIPTION

SOIL BORING LOCATION DIAGRAM

MILWAUKEE VA HOSPITAL
 LOT 7 PARKING GARAGE
 5000 W. NATIONAL AVENUE
 MILWAUKEE, WISCONSIN

Terracon
 Consulting Engineers & Scientists

5535 STATE STREET
 FISHKILL, NY
 NY 12525
 TEL: (845) 252-2525
 FAX: (845) 252-2526

EXHIBIT

A-2

FIG/DRAWING	
DESIGNED BY	
REVISION BY	
APPROVED BY	
SCALE	AS SHOWN
DATE	08/01/15
JOB NO.	
ACAD NO.	
SHEET NO.	

BORING LOG NO. B-1

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293735.6 Easting: 588262.8 Surface Elev.: 630.0 (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
	DEPTH ELEVATION (Ft.)								
1.0	ASPHALT CONCRETE , approximately 4.5 in. asphalt then 2.5 in. aggregate base course then 3 in. poor asphalt then 1 in. aggregate base course	629							
	FILL - LEAN CLAY (CL) , trace sand and gravel, brown to grayish-brown								
7.5		622.5							
	FILL - SANDY LEAN CLAY TOPSOIL (CL) , trace gravel and roots, black								
12.0		618							
	FILL - LEAN CLAY (CL) , trace sand and gravel, dark gray to gray								
18.0		612							
	SANDY SILT (ML) , trace clay, gray, loose to medium dense occasional gray lean clay seams encountered throughout		▽						
34.5		595.5							
	SANDY LEAN CLAY (CL) , gray, very stiff								

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 20' - 4-1/4" Hollow Stem Auger (HSA)
20 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

See Appendix C for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

▽ 18' While Drilling



Boring Started: 4/27/2015	Boring Completed: 4/27/2015
Drill Rig: CME-45	Driller: J&J Soil Testing
Project No.: MR155043	Exhibit: A-4

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-1

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293735.6 Easting: 588262.8 Surface Elev.: 630.0 (Ft.)	DEPTH (FL.)	ELEVATION (FL.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
SANDY LEAN CLAY (CL), gray, very stiff (continued)		42.0	588							
POORLY GRADED SAND (SP), trace silt and gravel, fine to medium grained, gray, dense		47.0	583		X	18	11-15-19 N=34		11	
SILTY SAND (SM), trace clay and gravel, fine grained, gray, medium dense		52.0	578		X	18	12-11-11 N=22		12	
SANDY LEAN CLAY (CL), trace gravel, gray, stiff		55.0	575		X	12	4-6	1.5	13A	14
LEAN CLAY (CL), trace sand and gravel, gray, very stiff to hard					X	6	9 N=15	4.5+	13B	16
harder drilling conditions encountered at 61 ft					X	18	8-11-14 N=25	3.5-4.25	14	18
harder drilling conditions encountered at 61 ft					X	18	11-16-23 N=39	4.5+	15	
harder drilling conditions encountered at 61 ft					X	18	14-20-26 N=46	4.5+	16	
harder drilling conditions encountered at 61 ft					X	18	11-17-20 N=37	4.5+	17	18
Boring Terminated at 75.5 Feet		75.5	554.5							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 20' - 4-1/4" Hollow Stem Auger (HSA)
20 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

18' While Drilling



Boring Started: 4/27/2015

Boring Completed: 4/27/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-4

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043 BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-2

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293730.7 Easting: 588359.4 Surface Elev.: 631.5 (Ft.) ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
1.0	ASPHALT CONCRETE , approximately 5 in. asphalt then 3 in. aggregate base course	630.5							
2.0	FILL - SILTY SAND WITH GRAVEL (SM) , fine to coarse grained, dark brown	629.5		X	7	4-3-3 N=6		1	18
	FILL - LEAN CLAY (CL) , trace sand and gravel, brown sample 1 was disturbed due to coarse gravel in sampler tip; no hand penetrometer test performed			X	18	4-5-5 N=10	2.0	2	22
				X	18	5-5-6 N=11	2.5-4.5+	3	19
				X	18	4-5-6 N=11	3.5	4	19
12.0	FILL - SANDY LEAN CLAY TOPSOIL (CL) , trace gravel and roots, black	619.5							
16.0	FILL - CLAYEY SAND WITH GRAVEL (SC) , trace silt, brown	615.5							
21.5	SANDY LEAN CLAY (CL) , trace gravel, gray, stiff	610							
27.0	LEAN CLAY (CL) , trace sand and gravel, gray, very stiff to hard	604.5							
34.0	SANDY SILT (ML) , trace clay, gray, medium dense	597.5							
37.0	LEAN CLAY (CL) , trace sand and gravel, gray, very stiff to hard	594.5							
40			▽	X	10	10-11-13 N=24		6	
				X	18	7-8-9 N=17	1.75	7	15
				X	18	6-8-11 N=19	2.5-4.25	8	17
				X	18	16-11-11 N=22		9	
				X	18	5-9-13 N=22	2.5-4.5	10	12

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 15' - 4-1/4" Hollow Stem Auger (HSA)
15 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS

▽ 20' While Sampling



Boring Started: 4/28/2015

Boring Completed: 4/28/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-5

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043 BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-2

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL. MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293730.7 Easting: 588359.4 Surface Elev.: 631.5 (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
	ELEVATION (Ft.)								
41.0		590.5							
POORLY GRADED SAND (SP), trace silt and gravel, fine to medium grained, gray, dense									
45			X		18	16-16-16 N=32		11	
47.0		584.5							
SILTY SAND (SM), trace clay and gravel, fine grained, gray, medium dense occasional lean clay seams encountered throughout									
50			X		18	7-6-6 N=12		12	
55			X		18	5-5-5 N=10		13	
60			X		18	6-8-7 N=15		14	
65			X		6	5-7-6 N=13		15	
67.0		564.5							
LEAN CLAY (CL), trace sand and gravel, gray, very stiff to hard									
70			X		18	8-11-15 N=26	3.75	16	10
75.5		556							
Boring Terminated at 75.5 Feet									

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 15' - 4-1/4" Hollow Stem Auger (HSA)
15 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

20' While Sampling



Boring Started: 4/28/2015

Boring Completed: 4/28/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-5

BORING LOG NO. B-3

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043 BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293617 Easting: 588451.6 Surface Elev.: 637.5 (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (1st)	SAMPLE NUMBER	WATER CONTENT (%)
	DEPTH ELEVATION (Ft.)								
	1.0 ASPHALT CONCRETE , approximately 6 in. asphalt then 3 in. aggregate base course	636.5							
	1.5 FILL - SANDY SILT WITH GRAVEL (ML) , dark brown	636			0	5-4-4 N=8		1	15
	FILL - LEAN CLAY (CL) , trace sand and gravel, brown								
					8	9-19-22 N=41	4.5+	2	14
					9	17-12-14 N=26	2.0	3	22
					18	6-8-8 N=16	4.5+	4	23
					18	6-6-7 N=13	3.5	5	19
	17.5 FILL - SANDY LEAN CLAY TOPSOIL (CL) , trace roots, black	620							
	19.5 FILL - SANDY LEAN CLAY (CL) , trace gravel, greenish gray	618			6	3	0.5	6A	36
					12	5-6 N=11	2.5-3.5	6B	25
	22.5 LAMINATED SILT AND CLAY (CL-ML) , trace sand, gray, very stiff	615							
					18	6-6-11 N=17	2.5	7	19
					18	9-10-11 N=21	3.25	8	12
	31.0 LEAN CLAY (CL) , trace sand and gravel, gray, very stiff	606.5							
					18	7-8-9 N=17	3.75	9	15
					18	10-15-17 N=32		10	

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 5' - 4-1/4" Hollow Stem Auger (HSA)
5 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

See Appendix C for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

22.5' While Sampling



Boring Started: 5/4/2015

Boring Completed: 5/6/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-6

BORING LOG NO. B-3

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293617 Easting: 588451.6 Surface Elev.: 637.5 (Ft.) ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (sf)	SAMPLE NUMBER	WATER CONTENT (%)
POORLY GRADED SAND WITH SILT (SP), trace clay and gravel, fine to medium grained, gray, dense <i>(continued)</i> occasional lean clay and silt seams encountered throughout	45.0	592.5							
SILTY CLAY (CL-ML), trace sand and gravel, gray, stiff to very stiff									
sample 12 was disturbed due to coarse gravel in sampler tip; no hand penetrometer test performed									
SANDY SILT (ML), trace clay and gravel, gray, loose to medium dense occasional lean clay and fine sand seams encountered throughout	57.5	580							
POORLY GRADED SAND (SP), trace silt, gray, dense harder drilling conditions encountered at 73 ft	73.0	564.5							
Boring Terminated at 75.5 Feet	75.5	562							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 5' - 4-1/4" Hollow Stem Auger (HSA)
5 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

22.5' While Sampling

Terracon
9856 South 57th Street
Franklin, Wisconsin

Boring Started: 5/4/2015

Boring Completed: 5/6/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-6

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-4

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293528.9 Easting: 588443.8 Surface Elev.: 641.4 (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
	DEPTH ELEVATION (Ft.)								
1.0	ASPHALT CONCRETE , approximately 6 in. asphalt then 2 in. aggregate base course then 3 in. poor asphalt FILL - LEAN CLAY (CL) , trace sand and gravel, brown	640.5			7	3-4-5 N=9	3.0-4.0	1	16
5				18		8-12-17 N=29	4.5+	2	18
				18		5-7-8 N=15	3.5-4.5+	3	21
10				18		8-8-9 N=17	4.5+	4	20
15			▽	12		2-4-7 N=11	1.25-2.5	5	29
17.5	SANDY SILTY CLAY (CL-ML) , trace gravel, brown, medium stiff sample 6 was disturbed due to coarse gravel in sampler tip; no hand penetrometer test performed	624		10		2-2-4 N=6		6	22
22.5	SANDY SILT (ML) , trace clay, brown, medium dense	619		18		8-8-13 N=21		7	15
27.5	LEAN CLAY (CL) , trace sand and gravel, gray, very stiff	614		18		5-6-8 N=14	3.25	8	13
36.0	SANDY SILT (ML) , trace clay, gray, medium dense occasional lean clay seams encountered throughout	605.5		18		6-8-9 N=17	2.0-2.5	9	16
40				18		9-7-11 N=18		10	16

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 5' - 4-1/4" Hollow Stem Auger (HSA)
5 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

▽ 17.5' While Drilling



Boring Started: 5/6/2015

Boring Completed: 5/7/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-7

BORING LOG NO. B-4

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293528.9 Easting: 588443.8 Surface Elev.: 641.4 (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
	ELEVATION (Ft.)								
	SANDY SILT (ML) , trace clay, gray, medium dense <i>(continued)</i>	45	X		18	9-9-7 N=16		11	
	47.5	50	X		18	7-8-11 N=19	2.25-3.25	12	14
	LEAN CLAY (CL) , trace sand and gravel, gray, very stiff to hard	55	X		18	11-20-19 N=39	4.5+	13	15
		60	X		18	13-18-39 N=57	4.5+	14	17
		65	X		6	10-19-29 N=48	4.5+	15	10
	68.0	70	X		18	6-7-9 N=16		16	
	SANDY SILT (ML) , trace clay and gravel, gray, medium dense easier drilling conditions encountered at 68 ft	75	X		18	12-12-11 N=23		17	
	75.5	566							
	Boring Terminated at 75.5 Feet								

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 5' - 4-1/4" Hollow Stem Auger (HSA)
5 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

17.5' While Drilling



Boring Started: 5/6/2015

Boring Completed: 5/7/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-7

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-5

PROJECT: VA Hospital Lot 7 Parking Garage	CLIENT: Guidon Design, LLC Indianapolis, Indiana
SITE: 5000 W. National Ave. Milwaukee, WI	

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293810.6 Easting: 588345.3 Surface Elev.: 627.7 (Ft.) ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
1.0	ASPHALT CONCRETE , approximately 6.5 in. asphalt then 2.5 in. aggregate base course	1.5							
	FILL - SILTY SAND WITH GRAVEL (SM) , fine to coarse grained, dark brown			X	18	5-7-7 N=14	4.5+	1	15
	FILL - LEAN CLAY (CL) , trace sand and gravel, brown			X	18	3-8-6 N=14	3.5-4.0	2	19
				X	18	3-3-4 N=7	1.5-2.0	3	31
				X	18	2-3-3 N=6	1.5	4	32
12.0	LEAN CLAY (CL) , trace sand and gravel, brown with gray mottling, very stiff		▽						
				X	18	7-9-11 N=20	3.0-3.5	5	19
17.5	LEAN CLAY (CL) , trace sand and gravel, gray, very stiff			X	18	5-6-7 N=13	2.0-2.5	6	18
				X	18	5-7-9 N=16	3.0	7	16
28.5	SILTY SAND (SM) , trace clay, fine grained, gray, loose			X	18	4-4-3 N=7		8	
				X	18	9-10-11 N=21		9	
32.0	POORLY GRADED SAND (SP) , trace silt, fine to medium grained, gray, medium dense			X	18	5-4-4 N=8		10	
36.0	SANDY SILT (ML) , trace clay, gray, loose								

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 15' - 4-1/4" Hollow Stem Auger (HSA)
15 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS
▽ 12' While Drilling (Perched in Fill)

9856 South 57th Street
Franklin, Wisconsin

Boring Started: 4/30/2015	Boring Completed: 4/30/2015
Drill Rig: CME-45	Driller: J&J Soil Testing
Project No.: MR155043	Exhibit: A-8

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-5

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293810.6 Easting: 588345.3 Surface Elev.: 627.7 (Ft.) ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (blt)	SAMPLE NUMBER	WATER CONTENT (%)
	SANDY SILT (ML) , trace clay, gray, loose <i>(continued)</i>								
44.5	583	45	X		10	10-8-8 N=16		11	
	POORLY GRADED SAND (SP) , trace silt, fine to medium grained, gray, medium dense								
48.5	579	50	X		14	13-6-12 N=18		12	
	SILTY SAND WITH GRAVEL (SM) , trace clay, fine to medium grained, gray, medium dense								
53.0	574.5	55	X		12	12-12-18 N=30		13	
	POORLY GRADED SAND (SP) , trace silt, fine to medium grained, gray, medium dense								
55.0	572.5	60	X		18	18-11-10 N=21		14	
	POORLY GRADED SAND WITH GRAVEL (SP) , trace silt, fine to coarse grained, gray, medium dense to dense								
64.0	563.5	65	X		18	13-16-21 N=37	4.5+	15	13
	LEAN CLAY (CL) , trace sand and gravel, gray, hard								
70.0	557.5	70	X		12	14-21 30 N=51	4.5+	16A	13
	SANDY SILT (ML) , trace clay, gray, very dense				6			16B	
72.0	555.5	75	X		18	15-14-15 N=29		17	
	POORLY GRADED SAND (SP) , trace silt and gravel, gray, medium dense								
75.5	552	Boring Terminated at 75.5 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 15' - 4-1/4" Hollow Stem Auger (HSA)
15 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

∇ 12' While Drilling (Perched in Fill)



Boring Started: 4/30/2015

Boring Completed: 4/30/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-8

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL_MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-6

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
1.0	631.5								
<p>ASPHALT CONCRETE, approximately 7 in. asphalt then 2 in. aggregate base course then 2 in. poor asphalt</p> <p>FILL - LEAN CLAY (CL), trace sand and gravel, brown occasional fine to medium sand and topsoil seams encountered throughout</p>									
		5		X	10	3-3-3 N=6	1.0	1	20
				X	9	1-2-5 N=7	0.25-2.5	2	20
				X	18	3-4-5 N=9	0.5-3.5	3	21
		10		X	12	4-4-6 N=10	1.0-3.5	4	21
		15		X	14	5-6-17 N=23	3.5-4.5+	5	18
			▽						
17.5	615								
<p>FILL - SILTY SAND WITH GRAVEL (SM), trace clay, gray, medium dense</p>									
		20		X	12	12-14-14 N=28		6	
22.5	610								
<p>LEAN CLAY (CL), trace sand and gravel, gray, stiff to very stiff occasional silt and fine sand seams encountered throughout</p>									
		25		X	18	4-5-6 N=11	1.25-2.5	7	19
		30		X	18	5-5-5 N=10	2.0	8	25
		35		X	12	6-8	3.25	9A	16
				X	6	8 N=16		9B	
35.0	597.5								
<p>POORLY GRADED SAND WITH SILT (SP-SM), trace clay, fine to medium grained, gray, medium dense to dense</p>									
		40		X	18	12-12-13 N=25		10	

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 10' - 4-1/4" Hollow Stem Auger (HSA)
10 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

See Appendix C for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

▽ 16.5' While Sampling



Boring Started: 5/1/2015

Boring Completed: 5/4/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-9

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043. BORING LOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-6

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293707.1 Easting: 588455.8 Surface Elev.: 632.7 (Ft.) DEPTH ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (sf)	SAMPLE NUMBER	WATER CONTENT (%)
	POORLY GRADED SAND WITH SILT (SP-SM) , trace clay, fine to medium grained, gray, medium dense to dense <i>(continued)</i> 45.5 587	45			18	18-20-20 N=40		11	
	POORLY GRADED SAND WITH GRAVEL (SP) , trace silt, fine to coarse grained, gray, dense 47.0 585.5	50			18	15-15-11 N=26		12	
	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) , trace clay, fine to medium grained, gray, medium dense occasional lean clay seams encountered throughout 57.5 575	55			14	19-13-16 N=29		13	
	LEAN CLAY (CL) , trace sand and gravel, gray, very stiff to hard 75.5 557	60			18	8-12-16 N=28	3.5-4.5+	14	13
		65			18	17-17-19 N=36	4.5+	15	16
		70			18	15-20-31 N=51	4.5+	16	14
		75			18	12-15-17 N=32	4.5+	17	17
	Boring Terminated at 75.5 Feet								

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 10' - 4-1/4" Hollow Stem Auger (HSA)
10 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

See Appendix C for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

16.5' While Sampling

Terracon
9856 South 57th Street
Franklin, Wisconsin

Boring Started: 5/1/2015

Boring Completed: 5/4/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-9

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-7

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293643.1 Easting: 588369.7 Surface Elev.: 635.7 (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
	DEPTH ELEVATION (Ft.)								
1.0	ASPHALT CONCRETE , approximately 5 in. asphalt then 2 in. aggregate base course FILL - LEAN CLAY (CL) , trace sand and gravel, brown	634.5							
5				X	12	3-4-4 N=8	2.25	1	20
5				X	18	10-16-21 N=37	4.5+	2	13
10				X	18	12-13-16 N=29	4.5+	3	16
10				X	18	8-9-10 N=19	4.5+	4	17
15				X	18	6-6-7 N=13	2.0-2.5	5	24
17.0	LEAN CLAY (CL) , trace sand and gravel, brown with gray mottling, stiff	618.5							
20.0	SILTY SAND (SM) , trace clay, fine grained, gray, loose	615.5	▽	X	12	4-4	1.0-1.75	6A	25
22.0	SANDY SILT (ML) , trace clay, gray, loose to medium dense	613.5		X	6	4 N=8		6B	
25				X	18	12-14-14 N=28		7	
30	sample 7 & 8 composite: liquid limit (LL) = 15, plastic limit (PL) = 13, plasticity index (PI) = 2			X	18	5-5-5 N=10		8	
35				X	12	2-3-4 N=7		9	0
40	sample 9 & 10 composite: % sand = 4, % silt = 82, % clay = 14			X	13	10-12-6 N=18		10	

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 10' - 4-1/4" Hollow Stem Auger (HSA)
10 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

▽ 20' While Sampling



Boring Started: 4/30/2015

Boring Completed: 5/1/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-10

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043_BORING LOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-7

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293643.1 Easting: 588369.7 Surface Elev.: 635.7 (Fl.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
	ELEVATION (Fl.)								
42.0	SANDY SILT (ML) , trace clay, gray, loose to medium dense <i>(continued)</i>	593.5							
	POORLY GRADED SAND (SP) , trace silt, fine to medium grained, gray, medium dense								
45			X		18	11-11-11 N=22		11	
49.0	SANDY LEAN CLAY WITH GRAVEL (CL) , gray, very stiff occasional cobbles and boulders encountered throughout	586.5							
	sample 13 was disturbed due to coarse gravel in sampler tip; no hand penetrometer test performed								
50			X		12	4-7-39 N=46	2.25	12	24
55.5	POORLY GRADED SAND WITH GRAVEL (SP) , trace silt, gray, very dense	580							
	no recovery of sample 14 due to coarse gravel in sampler tip; strata description based on driller's observations								
55			X		18	18-18-17 N=35		13	12
60			X		0	40-60		14	
62.0	LEAN CLAY (CL) , trace sand and gravel, gray, hard	573.5							
65			X		18	12-15-20 N=35	4.5+	15	10
66.0	SANDY SILT (ML) , trace clay, gray, medium dense	569.5							
70			X		18	4-6-7 N=13		16	
75			X		15	14-11-12 N=23		17	
	Boring Terminated at 75.5 Feet	560							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 10' - 4-1/4" Hollow Stem Auger (HSA)
10 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

20' While Sampling



Boring Started: 4/30/2015

Boring Completed: 5/1/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-10

BORING LOG NO. B-8

PROJECT: VA Hospital Lot 7 Parking Garage

CLIENT: Guidon Design, LLC
Indianapolis, Indiana

SITE: 5000 W. National Ave.
Milwaukee, WI

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293579.3 Easting: 588531.4 Surface Elev.: 638.5 (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
	ELEVATION (Ft.)								
1.0	ASPHALT CONCRETE , approximately 6 in. asphalt then 6 in. aggregate base course FILL - LEAN CLAY (CL) , trace sand and gravel, brown	637.5			10	3-4-4 N=8	2.5	1	17
4.5		634			4	9	4.5+	2A	16
5.5	FILL - SANDY LEAN CLAY TOPSOIL (CL) , trace gravel and brick rubble, black FILL - LEAN CLAY (CL) , trace sand and gravel, brown	633			10	35-20 N=55		2B	10
18					18	6-7-11 N=18	1.5-2.5	3	17
18					18	8-11-12 N=23	4.25-4.5+	4	18
18					18	6-8-10 N=18	3.0-4.5+	5	24
15					15	3-3-3 N=6	1.25-3.5	6	23
22.5	FILL - SANDY LEAN CLAY TOPSOIL (CL) , trace roots, black	616							
26.0	LEAN CLAY (CL) , trace sand and gravel, gray, very stiff occasional silt and fine sand seams encountered throughout	612.5	▽		18	6-9-10 N=19	2.0	7	39
31.0	SANDY SILT (ML) , trace clay, gray, loose to dense occasional lean clay seams encountered throughout	607.5			18	6-8-9 N=17	3.25	8	18
18					18	12-13-14 N=27		9	15
6					6	3-3-3 N=6		10	

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 5' - 4-1/4" Hollow Stem Auger (HSA)
5 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

▽ 26' While Drilling



Boring Started: 5/7/2015

Boring Completed: 5/7/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

Exhibit: A-11

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL MR155043 BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

BORING LOG NO. B-8

PROJECT: VA Hospital Lot 7 Parking Garage	CLIENT: Guidon Design, LLC Indianapolis, Indiana
SITE: 5000 W. National Ave. Milwaukee, WI	

GRAPHIC LOG	LOCATION See Exhibit A-2 Northing: 293579.3 Easting: 588531.4 Surface Elev.: 638.5 (Ft.) DEPTH ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	HAND PENETROMETER (tsf)	SAMPLE NUMBER	WATER CONTENT (%)
SANDY SILT (ML), trace clay, gray, loose to dense (continued)									
		45	X		18	12-13-13 N=26		11	18
		50	X		18	15-16-14 N=30		12	
LEAN CLAY (CL), trace sand and gravel, gray, very stiff to hard									
		55	X		6 6	16 13-10 N=23	2.0	13A 13B	18
		60	X		18	9-10-13 N=23	3.5-4.5+	14	15
SANDY SILT (ML), trace clay, gray, loose to medium dense occasional lean clay and fine sand seams encountered throughout									
		65	X		18	3-3-4 N=7		15	
		70	X		18	7-7-7 N=14		16	15
		75	X		18	8-8-9 N=17		17	
Boring Terminated at 75.5 Feet									

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Cathead and Rope

Advancement Method:
0 to 5' - 4-1/4" Hollow Stem Auger (HSA)
5 to 75.5' - Rotary Wash Methods with 3-7/8" Rotary Bit,
HSA used as temporary casing

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with cement-bentonite grout upon completion.

WATER LEVEL OBSERVATIONS

26' While Drilling



Boring Started: 5/7/2015

Boring Completed: 5/7/2015

Drill Rig: CME-45

Driller: J&J Soil Testing

Project No.: MR155043

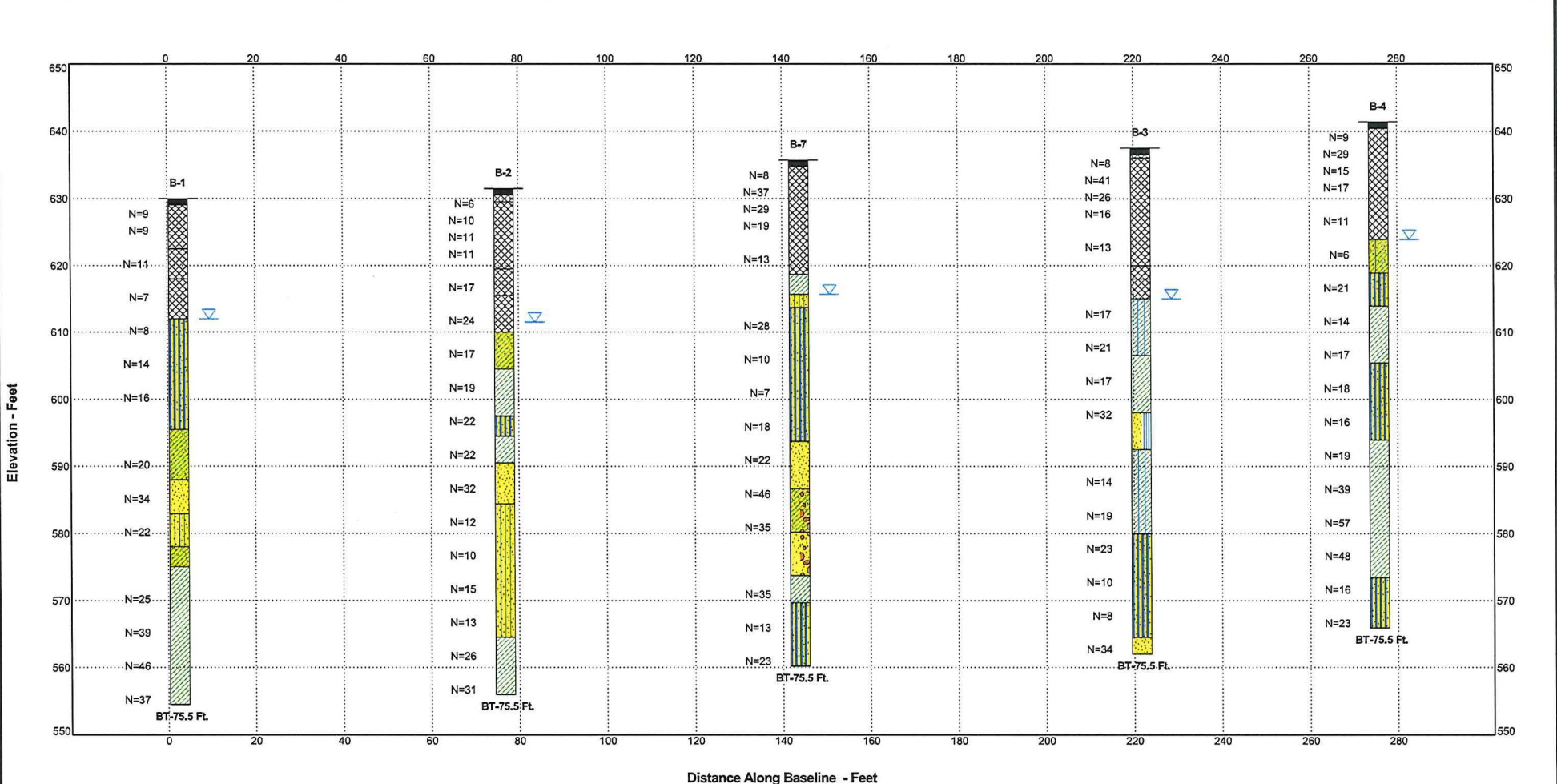
Exhibit: A-11

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL_MR155043_BORINGLOGS.GPJ TERRACON2012.GDT 5/20/15

North
A

South
A'

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. SMART FENCE MR155043_BORINGLOGS.GPJ TERRACON\2012\DOT_520115



Explanation

- B-1 — Borehole Number
- Moisture Content — %w
- Sampling (See General Notes)
- AR — Borehole Termination Type
- BT — Borehole Termination Type
- Water Level Reading at time of drilling.
- Water Level Reading after drilling.

- Asphalt
- Fill (made ground)
- Sandy Silt
- Sandy Lean Clay
- Poorly-graded Sand
- Silty Sand
- Lean Clay
- Silty Clay
- Poorly-graded Sand with Silt
- Sandy Silty Clay

NOTES:
 See Exhibit A-3 for orientation of soil profile.
 See General Notes in Appendix C for symbols and soil classifications.
 Soils profile provided for illustration purposes only.
 Soils between borings may differ.
 AR - Auger Refusal
 BT - Boring Termination

Project Manager:
 Drawn by: JDW
 Approved by: PAT
 Date: 06/2015

Project No.: MR155043
 Scale: N.T.S.
 File Name: MR155043

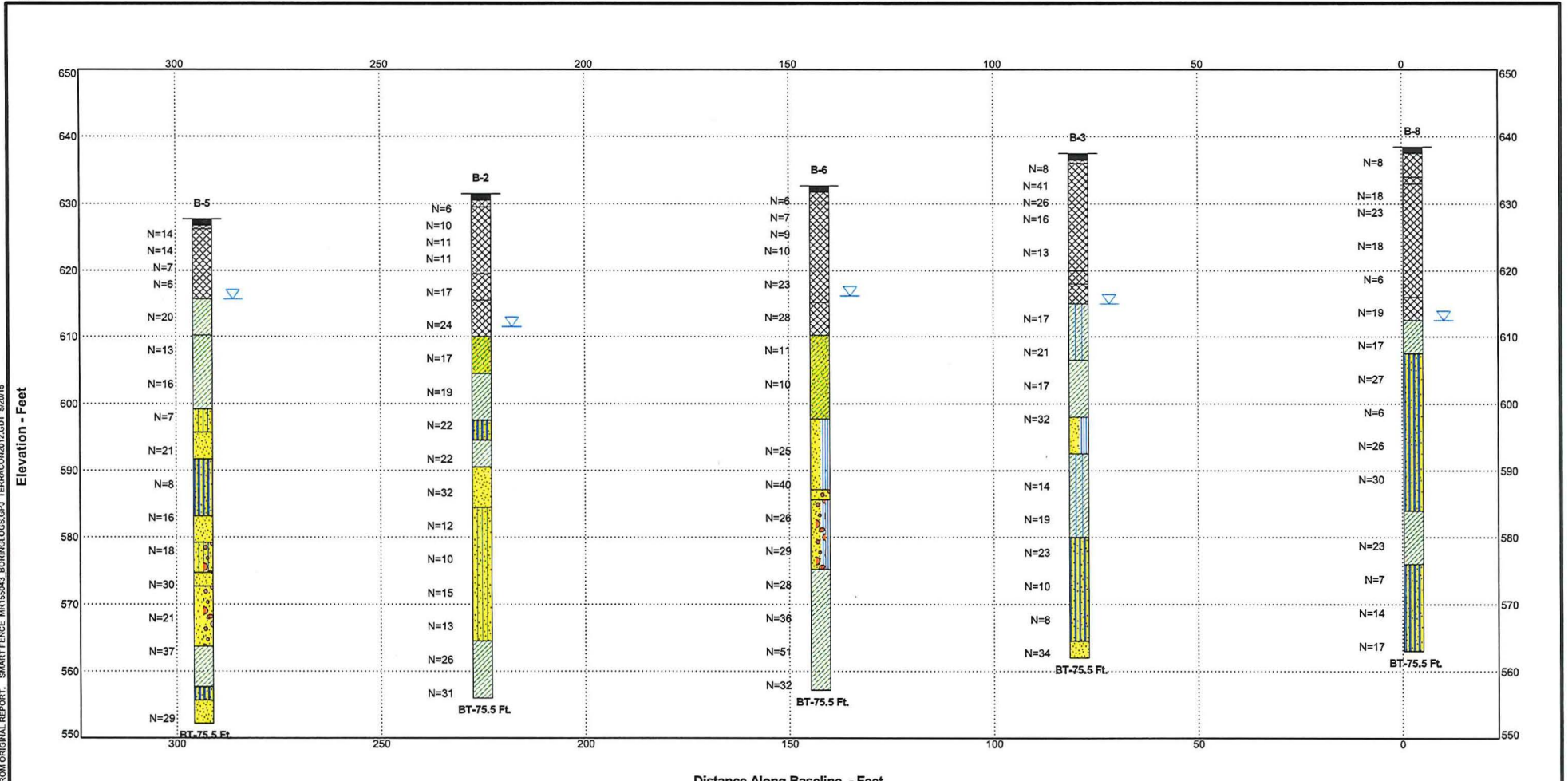
Terracon
 9856 South 57th Street
 Franklin, Wisconsin
 PH. 414-423-0255 FAX. 414-423-0566

SUBSURFACE PROFILE
 Section A-A'
 VA HOSPITAL LOT 7 PARKING GARAGE
 5000 W. NATIONAL AVE.
 MILWAUKEE, WI

EXHIBIT
 A-12

North
B

South
B'



THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. SMART FENCE_MR155043_BORINGLOGS.GPJ TERRACON\02\12.GDT 5/20/15

Explanation

<p>Moisture Content — %w</p> <p>Sampling (See General Notes)</p> <p>AR — Borehole Termination Type</p> <p>BT — Borehole Termination Type</p> <p>Water Level Reading at time of drilling.</p> <p>Water Level Reading after drilling.</p>	<p>B-2 — Borehole Number</p> <p>LL PL — Liquid and Plastic Limits</p> <p>— Borehole Lithology</p> <p>AR — Borehole Termination Type</p> <p>BT — Borehole Termination Type</p>	<p>Asphalt</p> <p>Fill (made ground)</p> <p>Sandy Lean Clay</p> <p>Lean Clay</p> <p>Sandy Silt</p> <p>Poorly-graded Sand</p> <p>Silty Sand</p> <p>Silty Clay</p> <p>Poorly-graded Sand with Silt</p> <p>Silty Sand with Gravel</p>
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NOTES:
See Exhibit A-3 for orientation of soil profile.
See General Notes in Appendix C for symbols and soil classifications.
Soils profile provided for illustration purposes only.
Soils between borings may differ.
AR - Auger Refusal
BT - Boring Termination

Project Manager:	Project No.: MR155043
Drawn by: JDW	Scale: N.T.S.
Approved by: PAT	File Name: MR155043
Date: 06/2015	

Terracon
9856 South 57th Street
Franklin, Wisconsin
PH. 414-423-0255 FAX. 414-423-0566

SUBSURFACE PROFILE
Section B-B'
VA HOSPITAL LOT 7 PARKING GARAGE
5000 W. NATIONAL AVE.
MILWAUKEE, WI

EXHIBIT
A-13

November 12, 2015

Project Reference #15233

Mr. Kyle Cyr, PE, Env SP
Guidon Design
905 N. Capitol Avenue, Suite 100
Indianapolis, IN 46204

**Re: Phase II Environmental Site Assessment
Parking Structure Lot 7 at VAMC Milwaukee, Wisconsin
VA Project No: 695-325**

Dear Mr. Cyr:

The Sigma Group, Inc. (Sigma) has prepared this report to document and discuss the Phase II Environmental Assessment activities completed at the Clement J. Zablocki VA Medical Center within Parking Lot 7 located at 5000 W. National Avenue, Milwaukee, Wisconsin (hereinafter the "site"). The Phase II activities presented below were conducted in accordance with Sigma's January 9, 2015 proposal to team with Guidon Design in completing the VA's Scope of Work-A/E Services dated December 3, 2014.

BACKGROUND

Subsurface soil quality in the area of the proposed parking structure, current Lot 7 (**Figure 1**), was unknown and thought to possibly contain hazardous substances from historic undocumented fill. The following environmental subsurface investigation activities were conducted to assess if historical soil placement and/or land usage negatively impacted the property in the area of the proposed parking structure.

SITE INVESTIGATION ACTIVITIES

Site Description. The Clement J. Zablocki VA Medical Center (VAMC) is located on 125 acres on the western edge of Milwaukee. The facility is used to deliver primary, secondary, and tertiary medical care.

Utility Clearance. Sigma contacted Digger's Hotline on April 17, 2015 to locate public utility lines at and around Parking Lot 7 of the VAMC. All Lines Utility Services, LLC was contracted to mark private utility lines on April 22, 2015 prior to drilling activities.

Drilling Activities. On April 27, 2015, Sigma oversaw the installation of six direct-push (Geoprobe®) soil borings (GP-1 through GP-6) at the locations depicted in **Figure 2**. Soil borings were proposed to be installed to a completion depth of 20 feet below ground surface (bgs); however, refusal was met between 8 and 15 feet bgs at four of the boring locations. Soil borings were completed with a truck-mounted Geoprobe® hydraulic drill rig. Soil samples were continuously collected at each soil boring location with a 2.5-inch diameter by 4-foot long Macro-Core® sampler and described on the basis of color, texture, grain size, and plasticity, and were classified in general accordance with the Unified Soil

Classification System. A split portion of each soil sample was also screened with a calibrated organic vapor monitor (OVM) to measure for the presence of volatile organic vapors. Soil classifications, descriptions, specific sampling intervals, and OVM readings are presented on the soil boring logs in **Attachment A**.

One composite soil sample from each soil boring was collected and submitted for laboratory analysis of gasoline range organics (GRO), diesel range organics (DRO), petroleum volatile organic compounds (PVOCs), semi-volatile organic compounds (SVOCs), RCRA metals, and polychlorinated biphenyls (PCBs). Representative quantities of soil were placed in the laboratory-supplied containers for analysis. A completed chain of custody document accompanied the soil samples until received by the laboratory.

Upon completion, Geoprobe® boreholes GP-1 through GP-6 were abandoned with bentonite chips in accordance with NR 141 regulations from the bottom of the borehole up to four inches bgs. Each borehole location was capped with asphalt to restore the existing grade. Soil borehole abandonment forms are included in **Attachment B**.

Survey. Following completion of the environmental soil borings installed by Sigma (identified as GP-1 through GP-6) and geotechnical soil borings overseen by Terracon (labeled as B-1 through B-8), Sigma conducted survey activities to document the boring locations and marked utilities at the site as shown in **Figure 2**.

Drill Cuttings Disposal. Soil cuttings were placed in 55-gallon steel drums during site drilling activities and stored within Parking Lot 7 until the conclusion of drilling activities. In total, 8 drums were produced and removed from the site for disposal by Jensen Environmental Management, Inc. on May 12, 2015.

SITE INVESTIGATION RESULTS

Geology and Groundwater. Based on information obtained during the installation of environmental soil borings, the geology beneath the site generally consists of reworked silty clay and silty sand with few sand layers to a maximum depth of approximately 15 feet bgs. Native grey clay was encountered in soil borings GP-2 and GP-5 to the maximum depth investigated, 20 feet bgs. Gravelly sand base course was present beneath the asphalt pavement. Wet soil conditions were observed at a depth of approximately 4.5 feet bgs within soil borings GP-2 and GP-5, which is assumed to be perched water; refusal was encountered prior to observation of saturated soil conditions at the other soil boring locations. Specific soil characteristics and depths encountered during drilling activities are shown on the soil boring logs in **Attachment A**.

Soil Quality Results. Laboratory analytical soil quality results from borings GP-1 through GP-6 indicate that the analyzed compounds were reported below the laboratory detection limits, with the following exceptions:

- GRO/ DRO/ PVOCs
 - One or more PVOCs were identified in the soil samples collected from soil borings GP-3, GP-5, and GP-6; however, only one concentration of benzene within GP-3 was reported above applicable Wisconsin Department of Natural

Resources (WDNR) soil quality standards for protection of groundwater. Detectable concentrations of DRO were reported within soil samples collected from GP-1 and GP-3; however, the laboratory noted that oil contamination was indicated outside the DRO window in each of these samples..

- SVOCs
 - One or more SVOC constituents were identified in soil samples from soil borings GP-1 through GP-6. The concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were reported above applicable WDNR soil quality standards for protection of the direct contact pathway (non-industrial land use setting) and/or protection of groundwater. Other SVOCs were also detected but below applicable soil quality standards.

- RCRA Metals
 - RCRA metals concentrations were reported below WDNR soil quality standards with the exception of arsenic and lead within soil borings GP-2, GP-3, and GP-5. However, the detected concentrations of arsenic are below 8 mg/kg, which was established¹ as the statewide soil-arsenic background threshold value. The lead concentrations reported within soil borings GP-3 and GP-5 are above the WDNR soil quality standard for the protection of groundwater but below the standard for protection of the direct contact pathway.

- PCBs
 - All PCB Aroclors were reported below the laboratory limits of detection.

Soil quality data, and further descriptions of WDNR soil standards, are summarized in **Table 1**. The soil laboratory analytical reports are included as **Attachment C**.

CLOSING

Based on impacts identified at the site, Sigma recommends the environmental findings be shared with the VAMC to discuss WDNR reporting obligations as the land owner, including reporting a release as required by Wisconsin Statute s. 292.11, and develop a WDNR closure strategy that meets the project goals.

The shallow, reworked, impacted soil will have to be managed appropriately, if disturbed, through disposal at a WDNR licensed Subtitle D landfill facility. Furthermore, the WDNR may require that subsurface barriers (e.g., concrete slab, asphalt pavement, etc.) be maintained to prevent direct contact with underlying soils following the completion of the proposed parking structure.

¹ "Wisconsin Statewide Soil-Arsenic Background Threshold Value" WDNR RR Publication 940 (dated July 2013)

Phase II Report – Lot 7 at VAMC
November 12, 2015
Page 4

We appreciate this opportunity to work with Guidon Design and the VAMC. If you have any questions about the completed subsurface investigation activities or results, please contact us at (414) 643-4200.

Sincerely,

THE SIGMA GROUP, INC.



Stacy Oszuscik, E.I.T.
Staff Engineer



Robert F. Peschel, P.E.
Senior Project Manager

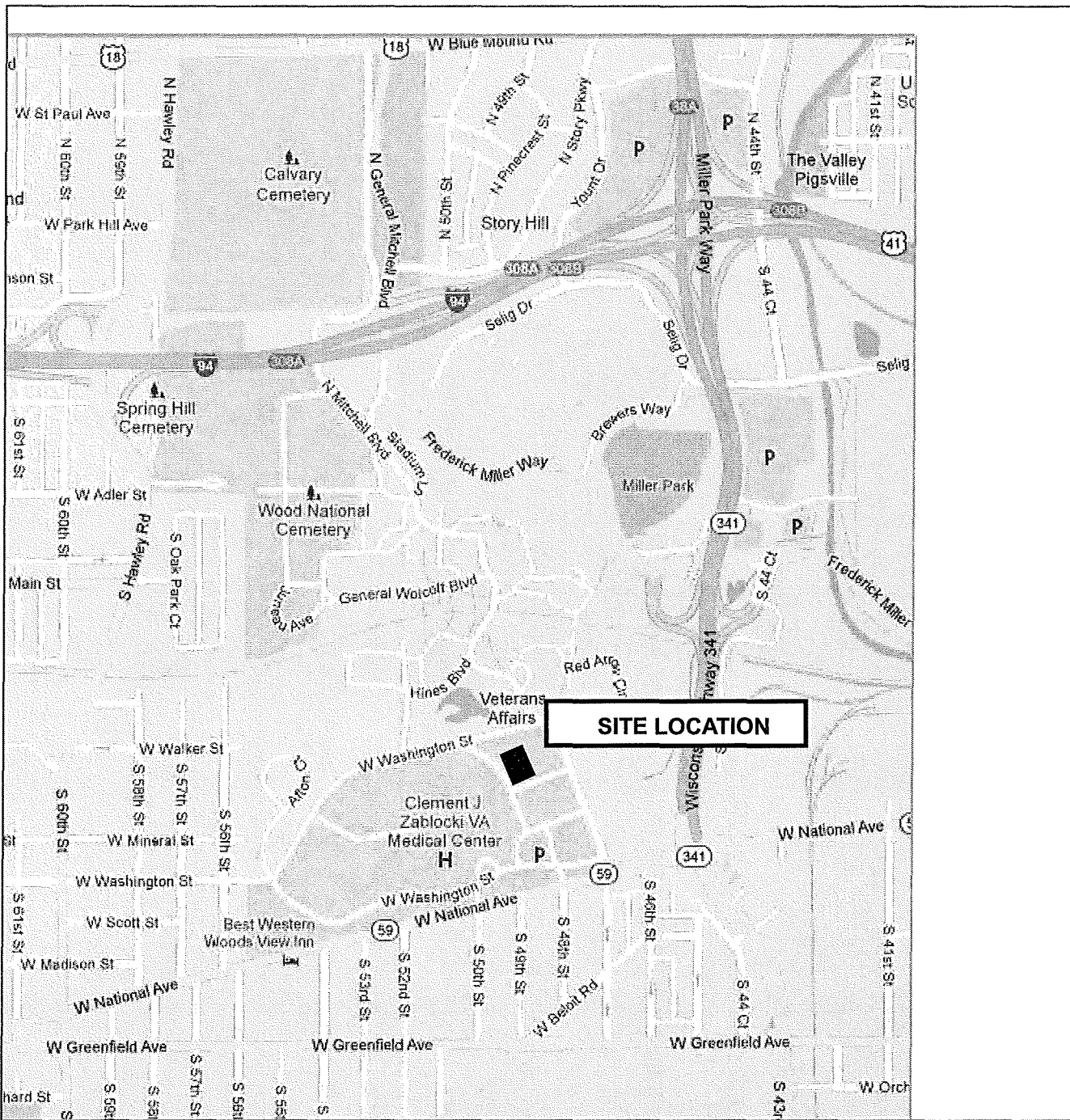
Date: 7/14/2014

Created By: NLB

Filename: Figure 1 - Location of Proposed Parking Structure

Directory: I:\Guidon Design

Project: 14776



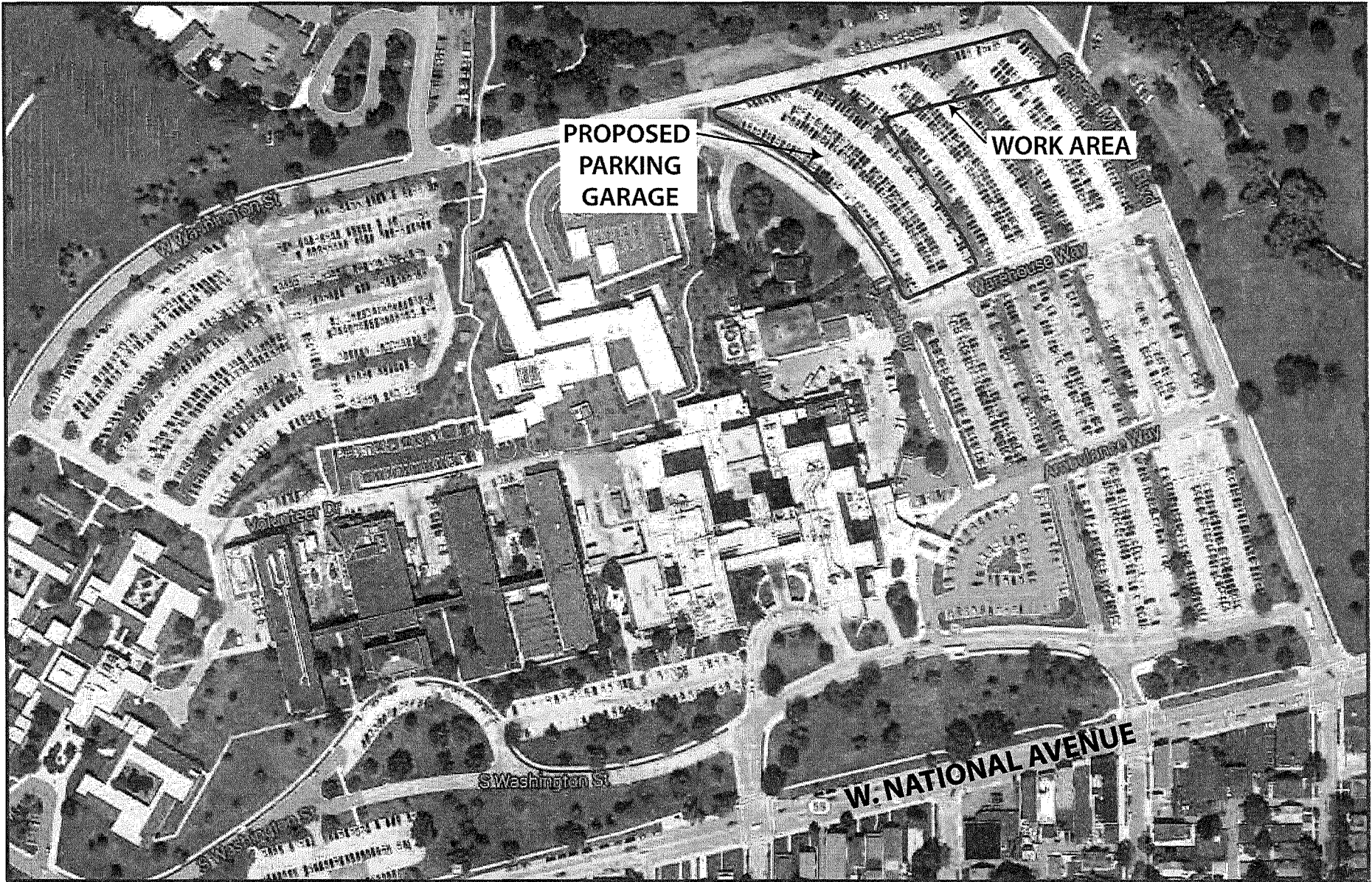
LOCATION OF PROPOSED PARKING STRUCTURE AND SURROUNDING AREA



CLEMENT J. ZABLOCKI VETERANS AFFAIRS MEDICAL CENTER
5000 WEST NATIONAL AVENUE
MILWAUKEE, WISCONSIN

FIGURE

1



THE **SIGMA** GROUP
Single Source. Sound Solutions.

**SITE MAP
PARKING LOT 7 AT VAMC**



5000 W. NATIONAL AVENUE
MILWAUKEE, WISCONSIN

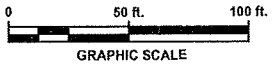
FIGURE

1



Project: 0523 | County: POLK | File: 04022015 | Date: 04/22/2015
 Drawn By: SLD

LEGEND	
	Environmental Geoprobe Soil Boring Location (April 2015)
	Geotechnical Soil Boring Location (April-May 2015)




THE SIGMA GROUP
 Single Source. Sound Solutions.

BOREHOLE LOCATION MAP
PARKING LOT 7 AT VAMC
 5000 W. NATIONAL AVENUE
 MILWAUKEE, WISCONSIN

FIGURE
2

ATTACHMENT A

Soil Boring Logs

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name VA Parking Lot #7		License/Permit/Monitoring Number		Boring Number GP-1	
Boring Drilled By: Name of crew chief (first, last) and Firm Josh Bartolomey The Sigma Group, Inc.		Date Drilling Started 4/27/2015		Date Drilling Completed 4/27/2015	
Drilling Method Direct Push (Geoprobe)		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
NW 1/4 of SE 1/4 of Section 35, T 7 N, R 21 E		Lat _____ "		Long _____ "	
Facility ID	County Milwaukee	County Code 41	Civil Town/City/ or Village Milwaukee		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48	PUSH	1.5	ASPHALT, black, dry	SW			0						
	38			GRAVELLY SAND, tan, very loose, moist, some silt	CL									
2 GP	48	PUSH	4.5	CLAY, brown to light brown, medium stiff, moist, some silt, trace gravel and organics	CL-MI			0						
	48			SILTY CLAY, light brown, medium stiff, moist, trace gravel and grey mottling, trace organics (tree roots)										
3 GP	48	PUSH	7.5	Dark brown to black				0						
	12			REFUSAL at 9' bgs. Abandoned with bentonite chips and asphalt patch. Sampled GP-1 (0-9).										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *J.S. Hloabe* Firm **The Sigma Group, Inc.** Tel: 414-643-4200
1300 W. Canal St Milwaukee, WI 53233 Fax: 414-643-4210

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name VA Parking Lot #7		License/Permit/Monitoring Number		Boring Number GP-2	
Boring Drilled By: Name of crew chief (first, last) and Firm Josh Bartolomey The Sigma Group, Inc.			Date Drilling Started 4/27/2015	Date Drilling Completed 4/27/2015	Drilling Method Direct Push (Geoprobe)
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N NW 1/4 of SE 1/4 of Section 35, T 7 N, R 21 E			Lat _____ " <input type="checkbox"/> N <input type="checkbox"/> E Long _____ " <input type="checkbox"/> S <input type="checkbox"/> W		Local Grid Location
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 28	P U S H	1.5	ASPHALT, black, dry	SW			0						
			3.0	SAND, black, medium loose, moist, some silt and gravel	SC			0.4						
2 GP	48 48	P U S H	4.5	CLAYEY SAND, brown, medium loose, very moist, little gravel, pg sand	SP			0						
			6.0	SAND, tan, medium loose, wet, pg, medium coarse sand	CL			0						
3 GP	48 46	P U S H	7.5	CLAY, grey, medium soft, wet, trace gravel and grey mottling				0						
			9.0	SAND, tan, medium loose, wet, pg, medium coarse sand	SP			0					Lab Sample (2-15.25')	
4 GP	48 46	P U S H	12.0					0						
			13.5					0						
5 GP	48 48	P U S H	15.0					0						
			16.5	SILTY CLAY, black changing to grey, medium soft, wet, trace organics	CL-MI			0						
			18.0					0						
				EOB at 20' bgs. Abandoned with bentonite chips and asphalt patch. Sampled GP-2 (2-15.25')										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm The Sigma Group, Inc. 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name VA Parking Lot #7		License/Permit/Monitoring Number		Boring Number GP-3	
Boring Drilled By: Name of crew chief (first, last) and Firm Josh Bartolomey The Sigma Group, Inc.			Date Drilling Started 4/27/2015	Date Drilling Completed 4/27/2015	Drilling Method Direct Push (Geoprobe)
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.0 inches
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N NW 1/4 of SE 1/4 of Section 35, T 7 N, R 21 E			Lat _____" Long _____"	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 18	P U S H	1.5	ASPHALT, black, dry	SM			0						
			3.0	SILTY SAND, white, medium loose, moist, some gravel										
			4.5	CLAY, dark brown, medium stiff, moist										
2 GP	48 48	P U S H	4.5	Stiff, little gravel, trace grey mottling	CL			0						
			6.0											
3 GP	48 24	P U S H	7.5	Very stiff				0						
			9.0											
				REFUSAL at 10' bgs. Abandoned with bentonite chips and asphalt patch. Sampled GP-3 (2-8').										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *J.S. Holcomb* Firm **The Sigma Group, Inc.** Tel: 414-643-4200
1300 W. Canal St Milwaukee, WI 53233 Fax: 414-643-4210

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name VA Parking Lot #7		License/Permit/Monitoring Number		Boring Number GP-4	
Boring Drilled By: Name of crew chief (first, last) and Firm Josh Bartolomey The Sigma Group, Inc.		Date Drilling Started 4/27/2015		Date Drilling Completed 4/27/2015	
Drilling Method Direct Push (Geoprobe)		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane N, E S/C/N		Lat _____ "		<input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of SE 1/4 of Section 35, T 7 N, R 21 E		Long _____ "		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee		County Code 41	
				Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 30	P U S H	1.5	ASPHALT, black, dry	SM			0						
			3.0	SILTY SAND, white, medium loose, moist, some gravel				0						
2 GP	48 48	P U S H	4.5	SILTY CLAY, brown, medium soft, moist, some black to grey mottling, trace gravel	CL-MI			0						
			6.0	Very stiff, trace sand			0							
			7.5	REFUSAL at 8' bgs. Abandoned with bentonite chips and asphalt patch. Sampled GP-4 (0-8').				0					Lab Sample (0-8')	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>J. Bartolomey</i>	Firm The Sigma Group, Inc. 1300 W. Canal St. Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name VA Parking Lot #7		License/Permit/Monitoring Number		Boring Number GP-5	
Boring Drilled By: Name of crew chief (first, last) and Firm Josh Bartolomey The Sigma Group, Inc.		Date Drilling Started 4/27/2015		Date Drilling Completed 4/27/2015	
Drilling Method Direct Push (Cicoprobe)		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane N, E S/C/N		Lat _____ "		<input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of SE 1/4 of Section 35, T 7 N, R 21 E		Long _____ "		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee		County Code 41	
				Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 24	P U S H	1.5	ASPHALT, black, dry	SM			0							
			3.0	SILTY SAND, white, medium loose, moist, some gravel				0							
2 GP	48 48	P U S H	4.5	SILTY CLAY, brown, medium soft, moist, little gravel, trace orange mottling				0.1							
			6.0	Wet				0							
3 GP	48 48	P U S H	7.5		CL-MI			0							
			9.0	Little red / orange mottling				0							
			10.5					0							
4 GP	48 36	P U S H	12.0	CLAY, grey, medium soft, wet, trace gravel, native				0							
			13.5					0							
			15.0					0							
5 GP	48 48	P U S H	16.5		CL			0							
			18.0					0							
			19.5					0							
				EOB at 20' bgs. Abandoned with bentonite chips and asphalt patch. Sampled GP-5 (0-12')											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>J. H. Deane</i>	Firm The Sigma Group, Inc. 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name VA Parking Lot #7		License/Permit/Monitoring Number		Boring Number GP-6	
Boring Drilled By: Name of crew chief (first, last) and Firm Josh Bartolomey The Sigma Group, Inc.		Date Drilling Started 4/27/2015		Date Drilling Completed 4/27/2015	
Drilling Method Direct Push (Geoprobe)		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Common Well Name		Local Grid Location	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Lat _____ " <input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of SE 1/4 of Section 35, T 7 N, R 21 E		Long _____ " <input type="checkbox"/> S <input type="checkbox"/> W		Facility ID	
County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 32	PUSH	1.5	ASPHALT, black, dry	SM									
			3.0	SILTY SAND, white, very loose, moist, some gravel, trace cobbles			0.4							
2 GP	48 48	PUSH	4.5	SILTY CLAY, brown, stiff, moist, little grey mottling, trace gravel	CL-MI									
			6.0				0.1							
3 GP	48 48	PUSH	7.5											
			9.0	CLAY, brown, medium soft, moist, little gravel	CL									
4 GP	48 36	PUSH	10.5	3" seam of black clay, slight petrol odor										
			12.0	Some grey mottling			0.8							
			13.5											
			15.0	REFUSAL at 15' bgs. Abandoned with bentonite chips and asphalt patch. Sampled GP-6 (0-15').									Lab Sample (0-15')	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm The Sigma Group, Inc. 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
results by May 5th AM Normal Turn Around

Lab I.D. # _____
 Account No. : _____ Quote No.: Standard
 Project #: 15283
 Sampler (signature): [Signature]

Project (Name / Location): VA Parking lot 7 / Milwaukee, WI
 Reports To: Stacy Ossusick Invoice To: SAME
 Company: Sigma Company: _____
 Address: 1300 W Canal St. Address: _____
 City State Zip: MKE, WI 53233 City State Zip: _____
 Phone: 414-643-4200 Phone: _____
 FAX: 414-643-4210 FAX: _____

Analysis Requested										Other Analysis					
DRO (Met DRO Sep 95)	GRO (Med GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	SVOC	PID/ FID
X	X					X	X					X	X		0
X	X					X	X					X	X		0.4
X	X					X	X					X	X		0
X	X					X	X					X	X		0
X	X					X	X					X	X		0.1
X	X					X	X					X	X		0.8
				X				X							

Lab I.D.	Sample I.D.	Collection Date (am)	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)	Preservation
<u>5028334H</u>	<u>GP-1 (0-9')</u>	<u>4/27/15</u>	<u>9:45</u>	<u>X</u>		<u>N</u>	<u>6</u>	<u>Soil</u>	<u>1-meth</u>
<u>B</u>	<u>GP-2 (2-15.25')</u>		<u>9:50</u>						
<u>C</u>	<u>GP-3 (2-8')</u>		<u>10:45</u>						
<u>D</u>	<u>GP-4 (0-8')</u>		<u>11:40</u>						
<u>E</u>	<u>GP-5 (0-12')</u>		<u>9:40</u>						
<u>F</u>	<u>GP-6 (0-15')</u>		<u>12:20 PM</u>						
<u>G</u>	<u>Trip Blank</u>	<u>4-27-15</u>	<u>9am</u>		<u>X</u>		<u>1</u>		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)
Recorded PIDs are the highest PIDs encountered in composite

Sample Integrity - To be completed by receiving lab.
 Method of Shipment: Truck
 Temp. of Temp. Blank _____ °C On Ice: X
 Cooler seal intact upon receipt: X Yes ___ No
 Relinquished By: (sign) [Signature] Time 3:30 Date 4/27/15
 Received By: (sign) _____ Time _____ Date _____
 Received in Laboratory By: [Signature] Time: 8:00 Date: 4/28/15

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

STACY OSZUSCIK
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date 05-May-15

Project Name VA PARKING LOT 7
Project # 15233
Lab Code 5028834A
Sample ID GP-1 (0-9')
Sample Matrix Soil
Sample Date 4/27/2015

Invoice # E28834

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.5	%			1	5021		4/28/2015	LPA	1
Inorganic										
Metals										
Arsenic, Total	< 0.72	mg/Kg	0.72	2.3	1	6010B		5/5/2015	CWT	1
Barium, Total	53.7	mg/Kg	0.18	0.58	1	6010B		5/5/2015	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		5/5/2015	CWT	1
Chromium, Total	22.1	mg/Kg	0.13	0.41	1	6010B		5/5/2015	CWT	1
Lead, Total	7.17	mg/Kg	0.3	0.96	1	6010B		5/5/2015	CWT	1
Mercury, Total	0.022	mg/kg	0.0028	0.02	1	7471		5/5/2015	CWT	1
Selenium, Total	< 0.7	mg/Kg	0.7	2.23	1	6010B		5/5/2015	CWT	1
Silver, Total	< 0.34	mg/Kg	0.34	1.09	1	6010B		5/4/2015	CWT	1
Organic										
General										
Diesel Range Organics	16.4	mg/kg	1.43	4.54	1	DRO95		5/5/2015	MDK	143
GRO/PVOC										
Gasoline Range Organics	< 10	mg/kg	1.8	5.8	1	GRO95/8021		4/30/2015	LPA	1
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/30/2015	LPA	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		4/30/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		4/30/2015	LPA	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		4/30/2015	LPA	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/30/2015	LPA	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		4/30/2015	LPA	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		4/30/2015	LPA	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		4/30/2015	LPA	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834A
 Sample ID GP-1 (0-9')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
PCB-1254	< 0.0047	mg/kg	0.0047	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		4/30/2015	ESC	1
Semi Volatiles										
Acetophenone	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthylene	< 19	ug/kg	19	60	1	8270C	4/30/2015	5/4/2015	MDK	1
Anthracene	< 22	ug/kg	22	73	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)anthracene	< 22	ug/kg	22	71	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)pyrene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(b)fluoranthene	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(g,h,i)perylene	< 20	ug/kg	20	62	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(k)fluoranthene	< 22	ug/kg	22	69	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzyl Alcohol	< 43	ug/kg	43	139	1	8270C	4/30/2015	5/4/2015	MDK	1
Butyl benzyl phthalate	< 37	ug/kg	37	118	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethoxy)methane	< 17	ug/kg	17	55	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethyl)ether	< 15	ug/kg	15	47	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroisopropyl)ether	< 16	ug/kg	16	49	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-ethylhexyl)phthalate	45 "J"	ug/kg	24	76	1	8270C	4/30/2015	5/4/2015	MDK	5
4-Bromophenylphenyl ether	< 17	ug/kg	17	53	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Chloro-3-methylphenol	< 20	ug/kg	20	63	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Chloronaphthalene	< 19	ug/kg	19	60	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Chlorophenol	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Chlorophenylphenyl ether	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
Chrysene	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
o-Cresol	< 24	ug/kg	24	77	1	8270C	4/30/2015	5/4/2015	MDK	1
m & p-Cresol	< 38	ug/kg	38	122	1	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzofuran	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzo(a,h)anthracene	< 17	ug/kg	17	54	1	8270C	4/30/2015	5/4/2015	MDK	1
1,4-Dichlorobenzene	< 15	ug/kg	15	48	1	8270C	4/30/2015	5/4/2015	MDK	1
1,3-Dichlorobenzene	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/4/2015	MDK	1
1,2-Dichlorobenzene	< 16	ug/kg	16	51	1	8270C	4/30/2015	5/4/2015	MDK	1
3,3'-Dichlorobenzidine	< 13	ug/kg	13	42	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dichlorophenol	< 19	ug/kg	19	62	1	8270C	4/30/2015	5/4/2015	MDK	1
Diethyl phthalate	< 24	ug/kg	24	76	1	8270C	4/30/2015	5/4/2015	MDK	1
Dimethyl phthalate	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dimethylphenol	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-butyl phthalate	< 26	ug/kg	26	84	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrophenol	< 6.6	ug/kg	6.6	21	1	8270C	4/30/2015	5/4/2015	MDK	8
2,6-Dinitrotoluene	< 19	ug/kg	19	59	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrotoluene	< 28	ug/kg	28	88	1	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-octyl phthalate	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/4/2015	MDK	1
Diphenylamine	< 9.9	ug/kg	9.9	32	1	8270C	4/30/2015	5/4/2015	MDK	1
Fluoranthene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/4/2015	MDK	1
Fluorene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobenzene	< 17	ug/kg	17	55	1	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobutadiene	< 20	ug/kg	20	64	1	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorocyclopentadiene	< 11	ug/kg	11	34	1	8270C	4/30/2015	5/4/2015	MDK	8
Hexachloroethane	< 14	ug/kg	14	44	1	8270C	4/30/2015	5/4/2015	MDK	1
Indeno(1,2,3-cd)pyrene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
Isophorone	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/4/2015	MDK	1
1-Methyl naphthalene	< 19	ug/kg	19	62	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl naphthalene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl-4,6-dinitrophenol	< 9.1	ug/kg	9.1	29	1	8270C	4/30/2015	5/4/2015	MDK	8
Naphthalene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitroaniline	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/4/2015	MDK	1
3-Nitroaniline	< 17	ug/kg	17	53	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitroaniline	< 16	ug/kg	16	50	1	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitrophenol	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitrophenol	< 13	ug/kg	13	42	1	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834A
 Sample ID GP-1 (0-9")
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
n-Nitrosodimethylamine	< 9.9	ug/kg	9.9	32	1	8270C	4/30/2015	5/4/2015	MDK	1
n-Nitrosodi-n-propylamine	< 25	ug/kg	25	79	1	8270C	4/30/2015	5/4/2015	MDK	1
Pentachlorophenol (PCP)	< 15	ug/kg	15	47	1	8270C	4/30/2015	5/4/2015	MDK	1
Phenanthrene	< 27	ug/kg	27	87	1	8270C	4/30/2015	5/4/2015	MDK	1
Phenol	< 20	ug/kg	20	62	1	8270C	4/30/2015	5/4/2015	MDK	1
Pyrene	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
Pyridine	< 17	ug/kg	17	54	1	8270C	4/30/2015	5/4/2015	MDK	1
2,3,4,6-Tetrachlorophenol	< 21	ug/kg	21	65	1	8270C	4/30/2015	5/4/2015	MDK	1
1,2,4-Trichlorobenzene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4,5-Trichlorophenol	< 20	ug/kg	20	63	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Trichlorophenol	< 18	ug/kg	18	59	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorobiphenyl-surrogate	69	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorophenol-surrogate	75	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene-d5-surrogate	62	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
Phenol-d6-surrogate	67	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
p-Terphenyl-d14-surrogate	87	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Tribromophenol-surrogate	79	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834B
 Sample ID GP-2 (2-15.25')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.5	%			1	5021		4/28/2015	LPA	1
Inorganic										
Metals										
Arsenic, Total	1.47 "J"	mg/Kg	0.72	2.3	1	6010B		5/5/2015	CWT	1
Barium, Total	31.4	mg/Kg	0.18	0.58	1	6010B		5/5/2015	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		5/5/2015	CWT	1
Chromium, Total	18.4	mg/Kg	0.13	0.41	1	6010B		5/5/2015	CWT	1
Lead, Total	12.0	mg/Kg	0.3	0.96	1	6010B		5/5/2015	CWT	1
Mercury, Total	0.031	mg/Kg	0.0028	0.02	1	7471		5/5/2015	CWT	1
Selenium, Total	< 0.7	mg/Kg	0.7	2.23	1	6010B		5/5/2015	CWT	1
Silver, Total	< 0.34	mg/Kg	0.34	1.09	1	6010B		5/4/2015	CWT	1
Organic										
General										
Diesel Range Organics	< 10	mg/kg	1.43	4.54	1	DRO95		5/5/2015	MDK	1
GRO/PVOC										
Gasoline Range Organics	< 10	mg/kg	1.8	5.8	1	GRO95/8021		4/30/2015	LPA	1
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/30/2015	LPA	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		4/30/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		4/30/2015	LPA	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		4/30/2015	LPA	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/30/2015	LPA	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		4/30/2015	LPA	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		4/30/2015	LPA	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		4/30/2015	LPA	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		4/30/2015	ESC	1
Semi Volatiles										
Acetophenone	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthylene	< 19	ug/kg	19	60	1	8270C	4/30/2015	5/4/2015	MDK	1
Anthracene	< 22	ug/kg	22	73	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)anthracene	< 22	ug/kg	22	71	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)pyrene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(b)fluoranthene	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(g,h,i)perylene	< 20	ug/kg	20	62	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(k)fluoranthene	< 22	ug/kg	22	69	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzyl Alcohol	< 43	ug/kg	43	139	1	8270C	4/30/2015	5/4/2015	MDK	1
Butyl benzyl phthalate	< 37	ug/kg	37	118	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethoxy)methane	< 17	ug/kg	17	55	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethyl)ether	< 15	ug/kg	15	47	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroisopropyl)ether	< 16	ug/kg	16	49	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-ethylhexyl)phthalate	28.7 "J"	ug/kg	24	76	1	8270C	4/30/2015	5/4/2015	MDK	5
4-Bromophenylphenyl ether	< 17	ug/kg	17	53	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Chloro-3-methylphenol	< 20	ug/kg	20	63	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Chloronaphthalene	< 19	ug/kg	19	60	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Chlorophenol	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Chlorophenylphenyl ether	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
Chrysene	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834B
 Sample ID GP-2 (2-15.25')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
o-Cresol	< 24	ug/kg	24	77	1	8270C	4/30/2015	5/4/2015	MDK	1
m & p-Cresol	< 38	ug/kg	38	122	1	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzofuran	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzo(a,h)anthracene	< 17	ug/kg	17	54	1	8270C	4/30/2015	5/4/2015	MDK	1
1,4-Dichlorobenzene	< 15	ug/kg	15	48	1	8270C	4/30/2015	5/4/2015	MDK	1
1,3-Dichlorobenzene	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/4/2015	MDK	1
1,2-Dichlorobenzene	< 16	ug/kg	16	51	1	8270C	4/30/2015	5/4/2015	MDK	1
3,3'-Dichlorobenzidine	< 13	ug/kg	13	42	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dichlorophenol	< 19	ug/kg	19	62	1	8270C	4/30/2015	5/4/2015	MDK	1
Diethyl phthalate	< 24	ug/kg	24	76	1	8270C	4/30/2015	5/4/2015	MDK	1
Dimethyl phthalate	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dimethylphenol	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-butyl phthalate	< 26	ug/kg	26	84	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrophenol	< 6.6	ug/kg	6.6	21	1	8270C	4/30/2015	5/4/2015	MDK	8
2,6-Dinitrotoluene	< 19	ug/kg	19	59	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrotoluene	< 28	ug/kg	28	88	1	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-octyl phthalate	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/4/2015	MDK	1
Diphenylamine	< 9.9	ug/kg	9.9	32	1	8270C	4/30/2015	5/4/2015	MDK	1
Fluoranthene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/4/2015	MDK	1
Fluorene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobenzene	< 17	ug/kg	17	55	1	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobutadiene	< 20	ug/kg	20	64	1	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorocyclopentadiene	< 11	ug/kg	11	34	1	8270C	4/30/2015	5/4/2015	MDK	8
Hexachloroethane	< 14	ug/kg	14	44	1	8270C	4/30/2015	5/4/2015	MDK	1
Indeno(1,2,3-cd)pyrene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
Isophorone	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/4/2015	MDK	1
1-Methyl naphthalene	< 19	ug/kg	19	62	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl naphthalene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl-4,6-dinitrophenol	< 9.1	ug/kg	9.1	29	1	8270C	4/30/2015	5/4/2015	MDK	8
Naphthalene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitroaniline	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/4/2015	MDK	1
3-Nitroaniline	< 17	ug/kg	17	53	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitroaniline	< 16	ug/kg	16	50	1	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitrophenol	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitrophenol	< 13	ug/kg	13	42	1	8270C	4/30/2015	5/4/2015	MDK	1
n-Nitrosodimethylamine	< 9.9	ug/kg	9.9	32	1	8270C	4/30/2015	5/4/2015	MDK	1
n-Nitrosodi-n-propylamine	< 25	ug/kg	25	79	1	8270C	4/30/2015	5/4/2015	MDK	1
Pentachlorophenol (PCP)	< 15	ug/kg	15	47	1	8270C	4/30/2015	5/4/2015	MDK	1
Phenanthrene	< 27	ug/kg	27	87	1	8270C	4/30/2015	5/4/2015	MDK	1
Phenol	< 20	ug/kg	20	62	1	8270C	4/30/2015	5/4/2015	MDK	1
Pyrene	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
Pyridine	< 17	ug/kg	17	54	1	8270C	4/30/2015	5/4/2015	MDK	1
2,3,4,6-Tetrachlorophenol	< 21	ug/kg	21	65	1	8270C	4/30/2015	5/4/2015	MDK	1
1,2,4-Trichlorobenzene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4,5-Trichlorophenol	< 20	ug/kg	20	63	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Trichlorophenol	< 18	ug/kg	18	59	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorobiphenyl-surrogate	58	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorophenol-surrogate	68	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene-d5-surrogate	61	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
Phenol-d6-surrogate	59	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
p-Terphenyl-d14-surrogate	72	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Tribromophenol-surrogate	78	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834C
 Sample ID GP-3 (2-8')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.8	%			1	5021		4/28/2015	LPA	1
Inorganic										
Metals										
Arsenic, Total	< 0.72	mg/Kg	0.72	2.3	1	6010B		5/5/2015	CWT	1
Barium, Total	65.3	mg/Kg	0.18	0.58	1	6010B		5/5/2015	CWT	1
Cadmium, Total	0.18 "J"	mg/Kg	0.08	0.25	1	6010B		5/5/2015	CWT	1
Chromium, Total	21.4	mg/Kg	0.13	0.41	1	6010B		5/5/2015	CWT	1
Lead, Total	32.0	mg/Kg	0.3	0.96	1	6010B		5/5/2015	CWT	1
Mercury, Total	0.119	mg/kg	0.0028	0.02	1	7471		5/5/2015	CWT	1
Selenium, Total	< 0.7	mg/Kg	0.7	2.23	1	6010B		5/5/2015	CWT	1
Silver, Total	< 0.34	mg/Kg	0.34	1.09	1	6010B		5/4/2015	CWT	1
Organic										
General										
Diesel Range Organics	11.2	mg/kg	1.43	4.54	1	DRO95		5/5/2015	MDK	1 43
GRO/PVOC										
Gasoline Range Organics	< 10	mg/kg	1.8	5.8	1	GRO95/8021		4/30/2015	LPA	1
Benzene	0.048	mg/kg	0.014	0.046	1	GRO95/8021		4/30/2015	LPA	1
Ethylbenzene	0.033 "J"	mg/kg	0.014	0.045	1	GRO95/8021		4/30/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		4/30/2015	LPA	1
Toluene	0.0268 "J"	mg/kg	0.015	0.048	1	GRO95/8021		4/30/2015	LPA	1
1,2,4-Trimethylbenzene	0.041	mg/kg	0.011	0.036	1	GRO95/8021		4/30/2015	LPA	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		4/30/2015	LPA	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		4/30/2015	LPA	1
o-Xylene	0.042 "J"	mg/kg	0.024	0.078	1	GRO95/8021		4/30/2015	LPA	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		4/30/2015	ESC	1
Semi Volatiles										
Acetophenone	< 36	ug/kg	36	114	2	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthene	141	ug/kg	36	112	2	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthylene	77 "J"	ug/kg	38	120	2	8270C	4/30/2015	5/4/2015	MDK	1
Anthracene	237	ug/kg	44	146	2	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)anthracene	490	ug/kg	44	142	2	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)pyrene	500	ug/kg	36	116	2	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(b)fluoranthene	640	ug/kg	42	132	2	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(g,h,i)perylene	278	ug/kg	40	124	2	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(k)fluoranthene	252	ug/kg	44	138	2	8270C	4/30/2015	5/4/2015	MDK	1
Benzyl Alcohol	< 86	ug/kg	86	278	2	8270C	4/30/2015	5/4/2015	MDK	1
Butyl benzyl phthalate	< 74	ug/kg	74	236	2	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethoxy)methane	< 34	ug/kg	34	110	2	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethyl)ether	< 30	ug/kg	30	94	2	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroisopropyl)ether	< 32	ug/kg	32	98	2	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-ethylhexyl)phthalate	58 "J"	ug/kg	48	152	2	8270C	4/30/2015	5/4/2015	MDK	5
4-Bromophenylphenyl ether	< 34	ug/kg	34	106	2	8270C	4/30/2015	5/4/2015	MDK	1
4-Chloro-3-methylphenol	< 40	ug/kg	40	126	2	8270C	4/30/2015	5/4/2015	MDK	1
2-Chloronaphthalene	< 38	ug/kg	38	120	2	8270C	4/30/2015	5/4/2015	MDK	1
2-Chlorophenol	< 30	ug/kg	30	98	2	8270C	4/30/2015	5/4/2015	MDK	1
4-Chlorophenylphenyl ether	< 42	ug/kg	42	132	2	8270C	4/30/2015	5/4/2015	MDK	1
Chrysene	410	ug/kg	42	132	2	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834C
 Sample ID GP-3 (2-8')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
o-Cresol	< 48	ug/kg	48	154	2	8270C	4/30/2015	5/4/2015	MDK	1
m & p-Cresol	< 76	ug/kg	76	244	2	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzofuran	41 "J"	ug/kg	38	122	2	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzo(a,h)anthracene	70 "J"	ug/kg	34	108	2	8270C	4/30/2015	5/4/2015	MDK	1
1,4-Dichlorobenzene	< 30	ug/kg	30	96	2	8270C	4/30/2015	5/4/2015	MDK	1
1,3-Dichlorobenzene	< 30	ug/kg	30	98	2	8270C	4/30/2015	5/4/2015	MDK	1
1,2-Dichlorobenzene	< 32	ug/kg	32	102	2	8270C	4/30/2015	5/4/2015	MDK	1
3,3'-Dichlorobenzidine	< 26	ug/kg	26	84	2	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dichlorophenol	< 38	ug/kg	38	124	2	8270C	4/30/2015	5/4/2015	MDK	1
Diethyl phthalate	< 48	ug/kg	48	152	2	8270C	4/30/2015	5/4/2015	MDK	1
Dimethyl phthalate	< 36	ug/kg	36	116	2	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dimethylphenol	< 36	ug/kg	36	114	2	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-butyl phthalate	< 52	ug/kg	52	168	2	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrophenol	< 13.2	ug/kg	13.2	42	2	8270C	4/30/2015	5/4/2015	MDK	8
2,6-Dinitrotoluene	< 38	ug/kg	38	118	2	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrotoluene	< 56	ug/kg	56	176	2	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-octyl phthalate	< 38	ug/kg	38	122	2	8270C	4/30/2015	5/4/2015	MDK	1
Diphenylamine	< 19.8	ug/kg	19.8	64	2	8270C	4/30/2015	5/4/2015	MDK	1
Fluoranthene	1190	ug/kg	36	112	2	8270C	4/30/2015	5/4/2015	MDK	1
Fluorene	70 "J"	ug/kg	36	116	2	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobenzene	< 34	ug/kg	34	110	2	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobutadiene	< 40	ug/kg	40	128	2	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorocyclopentadiene	< 22	ug/kg	22	68	2	8270C	4/30/2015	5/4/2015	MDK	8
Hexachloroethane	< 28	ug/kg	28	88	2	8270C	4/30/2015	5/4/2015	MDK	1
Indeno(1,2,3-cd)pyrene	251	ug/kg	36	114	2	8270C	4/30/2015	5/4/2015	MDK	1
Isophorone	< 38	ug/kg	38	122	2	8270C	4/30/2015	5/4/2015	MDK	1
1-Methyl naphthalene	38 "J"	ug/kg	38	124	2	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl naphthalene	44 "J"	ug/kg	36	116	2	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl-4,6-dinitrophenol	< 18.2	ug/kg	18.2	58	2	8270C	4/30/2015	5/4/2015	MDK	8
Naphthalene	80 "J"	ug/kg	36	114	2	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitroaniline	< 30	ug/kg	30	98	2	8270C	4/30/2015	5/4/2015	MDK	1
3-Nitroaniline	< 34	ug/kg	34	106	2	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitroaniline	< 32	ug/kg	32	100	2	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene	< 36	ug/kg	36	112	2	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitrophenol	< 36	ug/kg	36	114	2	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitrophenol	< 26	ug/kg	26	84	2	8270C	4/30/2015	5/4/2015	MDK	1
n-Nitrosodimethylamine	< 19.8	ug/kg	19.8	64	2	8270C	4/30/2015	5/4/2015	MDK	1
n-Nitrosodi-n-propylamine	< 50	ug/kg	50	158	2	8270C	4/30/2015	5/4/2015	MDK	1
Pentachlorophenol (PCP)	< 30	ug/kg	30	94	2	8270C	4/30/2015	5/4/2015	MDK	1
Phenanthrene	670	ug/kg	54	174	2	8270C	4/30/2015	5/4/2015	MDK	1
Phenol	< 40	ug/kg	40	124	2	8270C	4/30/2015	5/4/2015	MDK	1
Pyrene	910	ug/kg	42	132	2	8270C	4/30/2015	5/4/2015	MDK	1
Pyridine	< 34	ug/kg	34	108	2	8270C	4/30/2015	5/4/2015	MDK	1
2,3,4,6-Tetrachlorophenol	< 42	ug/kg	42	130	2	8270C	4/30/2015	5/4/2015	MDK	1
1,2,4-Trichlorobenzene	< 36	ug/kg	36	114	2	8270C	4/30/2015	5/4/2015	MDK	1
2,4,5-Trichlorophenol	< 40	ug/kg	40	126	2	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Trichlorophenol	< 36	ug/kg	36	118	2	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorobiphenyl-surrogate	62	REC %			2	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorophenol-surrogate	67	REC %			2	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene-d5-surrogate	63	REC %			2	8270C	4/30/2015	5/4/2015	MDK	1
Phenol-d6-surrogate	60	REC %			2	8270C	4/30/2015	5/4/2015	MDK	1
p-Terphenyl-d14-surrogate	80	REC %			2	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Tribromophenol-surrogate	86	REC %			2	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834D
 Sample ID GP-4 (0-8')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.6	%			1	5021		4/28/2015	LPA	1
Inorganic										
Metals										
Arsenic, Total	< 0.72	mg/Kg	0.72	2.3	1	6010B		5/5/2015	CWT	1
Barium, Total	54.4	mg/Kg	0.18	0.58	1	6010B		5/5/2015	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		5/5/2015	CWT	1
Chromium, Total	23.1	mg/Kg	0.13	0.41	1	6010B		5/5/2015	CWT	1
Lead, Total	6.86	mg/Kg	0.3	0.96	1	6010B		5/5/2015	CWT	1
Mercury, Total	0.047	mg/kg	0.0028	0.02	1	7471		5/5/2015	CWT	1
Selenium, Total	< 0.7	mg/Kg	0.7	2.23	1	6010B		5/5/2015	CWT	1
Silver, Total	< 0.34	mg/Kg	0.34	1.09	1	6010B		5/4/2015	CWT	1
Organic										
General										
Diesel Range Organics	< 10	mg/kg	1.43	4.54	1	DRO95		5/5/2015	MDK	1
GRO/PVOC										
Gasoline Range Organics	< 10	mg/kg	1.8	5.8	1	GRO95/8021		4/30/2015	LPA	1
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/30/2015	LPA	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		4/30/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		4/30/2015	LPA	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		4/30/2015	LPA	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/30/2015	LPA	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		4/30/2015	LPA	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		4/30/2015	LPA	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		4/30/2015	LPA	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		4/30/2015	ESC	1
Semi Volatiles										
Acetophenone	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthylene	< 19	ug/kg	19	60	1	8270C	4/30/2015	5/4/2015	MDK	1
Anthracene	27.8 "J"	ug/kg	22	73	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)anthracene	52 "J"	ug/kg	22	71	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)pyrene	40 "J"	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(b)fluoranthene	58 "J"	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(g,h,i)perylene	25.5 "J"	ug/kg	20	62	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(k)fluoranthene	< 22	ug/kg	22	69	1	8270C	4/30/2015	5/4/2015	MDK	1
Benzyl Alcohol	< 43	ug/kg	43	139	1	8270C	4/30/2015	5/4/2015	MDK	1
Butyl benzyl phthalate	< 37	ug/kg	37	118	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethoxy)methane	< 17	ug/kg	17	55	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethyl)ether	< 15	ug/kg	15	47	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroisopropyl)ether	< 16	ug/kg	16	49	1	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-ethylhexyl)phthalate	39 "J"	ug/kg	24	76	1	8270C	4/30/2015	5/4/2015	MDK	5
4-Bromophenylphenyl ether	< 17	ug/kg	17	53	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Chloro-3-methylphenol	< 20	ug/kg	20	63	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Chloronaphthalene	< 19	ug/kg	19	60	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Chlorophenol	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Chlorophenylphenyl ether	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
Chrysene	41 "J"	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834D
 Sample ID GP-4 (0-8')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
o-Cresol	< 24	ug/kg	24	77	1	8270C	4/30/2015	5/4/2015	MDK	1
m & p-Cresol	< 38	ug/kg	38	122	1	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzofuran	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzo(a,h)anthracene	< 17	ug/kg	17	54	1	8270C	4/30/2015	5/4/2015	MDK	1
1,4-Dichlorobenzene	< 15	ug/kg	15	48	1	8270C	4/30/2015	5/4/2015	MDK	1
1,3-Dichlorobenzene	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/4/2015	MDK	1
1,2-Dichlorobenzene	< 16	ug/kg	16	51	1	8270C	4/30/2015	5/4/2015	MDK	1
3,3'-Dichlorobenzidine	< 13	ug/kg	13	42	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dichlorophenol	< 19	ug/kg	19	62	1	8270C	4/30/2015	5/4/2015	MDK	1
Diethyl phthalate	< 24	ug/kg	24	76	1	8270C	4/30/2015	5/4/2015	MDK	1
Dimethyl phthalate	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dimethylphenol	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-butyl phthalate	< 26	ug/kg	26	84	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrophenol	< 6.6	ug/kg	6.6	21	1	8270C	4/30/2015	5/4/2015	MDK	8
2,6-Dinitrotoluene	< 19	ug/kg	19	59	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrotoluene	< 28	ug/kg	28	88	1	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-octyl phthalate	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/4/2015	MDK	1
Diphenylamine	< 9.9	ug/kg	9.9	32	1	8270C	4/30/2015	5/4/2015	MDK	1
Fluoranthene	117	ug/kg	18	56	1	8270C	4/30/2015	5/4/2015	MDK	1
Fluorene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobenzene	< 17	ug/kg	17	55	1	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobutadiene	< 20	ug/kg	20	64	1	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorocyclopentadiene	< 11	ug/kg	11	34	1	8270C	4/30/2015	5/4/2015	MDK	8
Hexachloroethane	< 14	ug/kg	14	44	1	8270C	4/30/2015	5/4/2015	MDK	1
Indeno(1,2,3-cd)pyrene	20.5 "J"	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
Isophorone	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/4/2015	MDK	1
1-Methyl naphthalene	< 19	ug/kg	19	62	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl naphthalene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl-4,6-dinitrophenol	< 9.1	ug/kg	9.1	29	1	8270C	4/30/2015	5/4/2015	MDK	8
Naphthalene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitroaniline	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/4/2015	MDK	1
3-Nitroaniline	< 17	ug/kg	17	53	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitroaniline	< 16	ug/kg	16	50	1	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitrophenol	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitrophenol	< 13	ug/kg	13	42	1	8270C	4/30/2015	5/4/2015	MDK	1
n-Nitrosodimethylamine	< 9.9	ug/kg	9.9	32	1	8270C	4/30/2015	5/4/2015	MDK	1
n-Nitrosodi-n-propylamine	< 25	ug/kg	25	79	1	8270C	4/30/2015	5/4/2015	MDK	1
Pentachlorophenol (PCP)	< 15	ug/kg	15	47	1	8270C	4/30/2015	5/4/2015	MDK	1
Phenanthrene	61 "J"	ug/kg	27	87	1	8270C	4/30/2015	5/4/2015	MDK	1
Phenol	< 20	ug/kg	20	62	1	8270C	4/30/2015	5/4/2015	MDK	1
Pyrene	98	ug/kg	21	66	1	8270C	4/30/2015	5/4/2015	MDK	1
Pyridine	< 17	ug/kg	17	54	1	8270C	4/30/2015	5/4/2015	MDK	1
2,3,4,6-Tetrachlorophenol	< 21	ug/kg	21	65	1	8270C	4/30/2015	5/4/2015	MDK	1
1,2,4-Trichlorobenzene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4,5-Trichlorophenol	< 20	ug/kg	20	63	1	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Trichlorophenol	< 18	ug/kg	18	59	1	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorobiphenyl-surrogate	54	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorophenol-surrogate	62	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene-d5-surrogate	54	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
Phenol-d6-surrogate	52	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
p-Terphenyl-d14-surrogate	76	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Tribromophenol-surrogate	68	REC %			1	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834E
 Sample ID GP-5 (0-12')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.4	%			1	5021		4/28/2015	LPA	1
Inorganic										
Metals										
Arsenic, Total	3.55	mg/Kg	0.72	2.3	1	6010B		5/5/2015	CWT	1
Barium, Total	66.6	mg/Kg	0.18	0.58	1	6010B		5/5/2015	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		5/5/2015	CWT	1
Chromium, Total	23.9	mg/Kg	0.13	0.41	1	6010B		5/5/2015	CWT	1
Lead, Total	78.1	mg/Kg	0.3	0.96	1	6010B		5/5/2015	CWT	1
Mercury, Total	0.090	mg/kg	0.0028	0.02	1	7471		5/5/2015	CWT	1
Selenium, Total	< 0.7	mg/Kg	0.7	2.23	1	6010B		5/5/2015	CWT	1
Silver, Total	< 0.34	mg/Kg	0.34	1.09	1	6010B		5/4/2015	CWT	1
Organic										
General										
Diesel Range Organics	< 10	mg/kg	1.43	4.54	1	DRO95		5/5/2015	MDK	1
GRO/PVOC										
Gasoline Range Organics	< 10	mg/kg	1.8	5.8	1	GRO95/8021		5/1/2015	LPA	1
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/1/2015	LPA	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		5/1/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		5/1/2015	LPA	1
Toluene	0.0254 "J"	mg/kg	0.015	0.048	1	GRO95/8021		5/1/2015	LPA	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/1/2015	LPA	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		5/1/2015	LPA	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		5/1/2015	LPA	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		5/1/2015	LPA	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		4/30/2015	ESC	1
Semi Volatiles										
Acetophenone	< 180	ug/kg	180	570	10	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthene	< 180	ug/kg	180	560	10	8270C	4/30/2015	5/4/2015	MDK	1
Acenaphthylene	206 "J"	ug/kg	190	600	10	8270C	4/30/2015	5/4/2015	MDK	1
Anthracene	500 "J"	ug/kg	220	730	10	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)anthracene	1690	ug/kg	220	710	10	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(a)pyrene	1430	ug/kg	180	580	10	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(b)fluoranthene	2160	ug/kg	210	660	10	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(g,h,i)perylene	910	ug/kg	200	620	10	8270C	4/30/2015	5/4/2015	MDK	1
Benzo(k)fluoranthene	810	ug/kg	220	690	10	8270C	4/30/2015	5/4/2015	MDK	1
Benzyl Alcohol	< 430	ug/kg	430	1390	10	8270C	4/30/2015	5/4/2015	MDK	1
Butyl benzyl phthalate	< 370	ug/kg	370	1180	10	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethoxy)methane	< 170	ug/kg	170	550	10	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroethyl)ether	< 150	ug/kg	150	470	10	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-chloroisopropyl)ether	< 160	ug/kg	160	490	10	8270C	4/30/2015	5/4/2015	MDK	1
Bis(2-ethylhexyl)phthalate	< 240	ug/kg	240	760	10	8270C	4/30/2015	5/4/2015	MDK	5
4-Bromophenylphenyl ether	< 170	ug/kg	170	530	10	8270C	4/30/2015	5/4/2015	MDK	1
4-Chloro-3-methylphenol	< 200	ug/kg	200	630	10	8270C	4/30/2015	5/4/2015	MDK	1
2-Chloronaphthalene	< 190	ug/kg	190	600	10	8270C	4/30/2015	5/4/2015	MDK	1
2-Chlorophenol	< 150	ug/kg	150	490	10	8270C	4/30/2015	5/4/2015	MDK	1
4-Chlorophenylphenyl ether	< 210	ug/kg	210	660	10	8270C	4/30/2015	5/4/2015	MDK	1
Chrysene	1450	ug/kg	210	660	10	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834E
 Sample ID GP-5 (0-12')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
o-Cresol	< 240	ug/kg	240	770	10	8270C	4/30/2015	5/4/2015	MDK	1
m & p-Cresol	< 380	ug/kg	380	1220	10	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzofuran	< 190	ug/kg	190	610	10	8270C	4/30/2015	5/4/2015	MDK	1
Dibenzo(a,h)anthracene	229 "J"	ug/kg	170	540	10	8270C	4/30/2015	5/4/2015	MDK	1
1,4-Dichlorobenzene	< 150	ug/kg	150	480	10	8270C	4/30/2015	5/4/2015	MDK	1
1,3-Dichlorobenzene	< 150	ug/kg	150	490	10	8270C	4/30/2015	5/4/2015	MDK	1
1,2-Dichlorobenzene	< 160	ug/kg	160	510	10	8270C	4/30/2015	5/4/2015	MDK	1
3,3'-Dichlorobenzidine	< 130	ug/kg	130	420	10	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dichlorophenol	< 190	ug/kg	190	620	10	8270C	4/30/2015	5/4/2015	MDK	1
Diethyl phthalate	< 240	ug/kg	240	760	10	8270C	4/30/2015	5/4/2015	MDK	1
Dimethyl phthalate	< 180	ug/kg	180	580	10	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dimethylphenol	< 180	ug/kg	180	570	10	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-butyl phthalate	< 260	ug/kg	260	840	10	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrophenol	< 66	ug/kg	66	210	10	8270C	4/30/2015	5/4/2015	MDK	8
2,6-Dinitrotoluene	< 190	ug/kg	190	590	10	8270C	4/30/2015	5/4/2015	MDK	1
2,4-Dinitrotoluene	< 280	ug/kg	280	880	10	8270C	4/30/2015	5/4/2015	MDK	1
Di-n-octyl phthalate	< 190	ug/kg	190	610	10	8270C	4/30/2015	5/4/2015	MDK	1
Diphenylamine	< 99	ug/kg	99	320	10	8270C	4/30/2015	5/4/2015	MDK	1
Fluoranthene	3800	ug/kg	180	560	10	8270C	4/30/2015	5/4/2015	MDK	1
Fluorene	< 180	ug/kg	180	580	10	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobenzene	< 170	ug/kg	170	550	10	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorobutadiene	< 200	ug/kg	200	640	10	8270C	4/30/2015	5/4/2015	MDK	1
Hexachlorocyclopentadiene	< 110	ug/kg	110	340	10	8270C	4/30/2015	5/4/2015	MDK	8
Hexachloroethane	< 140	ug/kg	140	440	10	8270C	4/30/2015	5/4/2015	MDK	1
Indeno(1,2,3-cd)pyrene	870	ug/kg	180	570	10	8270C	4/30/2015	5/4/2015	MDK	1
Isophorone	< 190	ug/kg	190	610	10	8270C	4/30/2015	5/4/2015	MDK	1
1-Methyl naphthalene	< 190	ug/kg	190	620	10	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl naphthalene	< 180	ug/kg	180	580	10	8270C	4/30/2015	5/4/2015	MDK	1
2-Methyl-4,6-dinitrophenol	< 91	ug/kg	91	290	10	8270C	4/30/2015	5/4/2015	MDK	8
Naphthalene	< 180	ug/kg	180	570	10	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitroaniline	< 150	ug/kg	150	490	10	8270C	4/30/2015	5/4/2015	MDK	1
3-Nitroaniline	< 170	ug/kg	170	530	10	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitroaniline	< 160	ug/kg	160	500	10	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene	< 180	ug/kg	180	560	10	8270C	4/30/2015	5/4/2015	MDK	1
2-Nitrophenol	< 180	ug/kg	180	570	10	8270C	4/30/2015	5/4/2015	MDK	1
4-Nitrophenol	< 130	ug/kg	130	420	10	8270C	4/30/2015	5/4/2015	MDK	1
n-Nitrosodimethylamine	< 99	ug/kg	99	320	10	8270C	4/30/2015	5/4/2015	MDK	1
n-Nitrosodi-n-propylamine	< 250	ug/kg	250	790	10	8270C	4/30/2015	5/4/2015	MDK	1
Pentachlorophenol (PCP)	< 150	ug/kg	150	470	10	8270C	4/30/2015	5/4/2015	MDK	1
Phenanthrene	1990	ug/kg	270	870	10	8270C	4/30/2015	5/4/2015	MDK	1
Phenol	< 200	ug/kg	200	620	10	8270C	4/30/2015	5/4/2015	MDK	1
Pyrene	2550	ug/kg	210	660	10	8270C	4/30/2015	5/4/2015	MDK	1
Pyridine	< 170	ug/kg	170	540	10	8270C	4/30/2015	5/4/2015	MDK	1
2,3,4,6-Tetrachlorophenol	< 210	ug/kg	210	650	10	8270C	4/30/2015	5/4/2015	MDK	1
1,2,4-Trichlorobenzene	< 180	ug/kg	180	570	10	8270C	4/30/2015	5/4/2015	MDK	1
2,4,5-Trichlorophenol	< 200	ug/kg	200	630	10	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Trichlorophenol	< 180	ug/kg	180	590	10	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorobiphenyl-surrogate	47	REC %			10	8270C	4/30/2015	5/4/2015	MDK	1
2-Fluorophenol-surrogate	52	REC %			10	8270C	4/30/2015	5/4/2015	MDK	1
Nitrobenzene-d5-surrogate	42	REC %			10	8270C	4/30/2015	5/4/2015	MDK	1
Phenol-d6-surrogate	23	REC %			10	8270C	4/30/2015	5/4/2015	MDK	1
p-Terphenyl-d14-surrogate	54	REC %			10	8270C	4/30/2015	5/4/2015	MDK	1
2,4,6-Tribromophenol-surrogate	49	REC %			10	8270C	4/30/2015	5/4/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834F
 Sample ID GP-6 (0-15')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.0	%			1	5021		4/28/2015	LPA	1
Inorganic										
Metals										
Arsenic, Total	< 0.72	mg/Kg	0.72	2.3	1	6010B		5/5/2015	CWT	1
Barium, Total	58.6	mg/Kg	0.18	0.58	1	6010B		5/5/2015	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		5/5/2015	CWT	1
Chromium, Total	21.1	mg/Kg	0.13	0.41	1	6010B		5/5/2015	CWT	1
Lead, Total	7.40	mg/Kg	0.3	0.96	1	6010B		5/5/2015	CWT	1
Mercury, Total	0.028	mg/kg	0.0028	0.02	1	7471		5/5/2015	CWT	1
Selenium, Total	< 0.7	mg/Kg	0.7	2.23	1	6010B		5/5/2015	CWT	1
Silver, Total	< 0.34	mg/Kg	0.34	1.09	1	6010B		5/4/2015	CWT	1
Organic										
General										
Diesel Range Organics	< 10	mg/kg	1.43	4.54	1	DRO95		5/5/2015	MDK	1
GRO/PVOC										
Gasoline Range Organics	< 10	mg/kg	1.8	5.8	1	GRO95/8021		5/1/2015	LPA	1
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/1/2015	LPA	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		5/1/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		5/1/2015	LPA	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		5/1/2015	LPA	1
1,2,4-Trimethylbenzene	0.048	mg/kg	0.011	0.036	1	GRO95/8021		5/1/2015	LPA	1
1,3,5-Trimethylbenzene	0.040	mg/kg	0.012	0.038	1	GRO95/8021		5/1/2015	LPA	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		5/1/2015	LPA	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		5/1/2015	LPA	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.017	1	EPA 8082A		4/30/2015	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		4/30/2015	ESC	1
Semi Volatiles										
Acetophenone	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/5/2015	MDK	1
Acenaphthene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/5/2015	MDK	1
Acenaphthylene	< 19	ug/kg	19	60	1	8270C	4/30/2015	5/5/2015	MDK	1
Anthracene	< 22	ug/kg	22	73	1	8270C	4/30/2015	5/5/2015	MDK	1
Benzo(a)anthracene	53 "J"	ug/kg	22	71	1	8270C	4/30/2015	5/5/2015	MDK	1
Benzo(a)pyrene	55 "J"	ug/kg	18	58	1	8270C	4/30/2015	5/5/2015	MDK	1
Benzo(b)fluoranthene	87	ug/kg	21	66	1	8270C	4/30/2015	5/5/2015	MDK	1
Benzo(g,h,i)perylene	40 "J"	ug/kg	20	62	1	8270C	4/30/2015	5/5/2015	MDK	1
Benzo(k)fluoranthene	37 "J"	ug/kg	22	69	1	8270C	4/30/2015	5/5/2015	MDK	1
Benzyl Alcohol	< 43	ug/kg	43	139	1	8270C	4/30/2015	5/5/2015	MDK	1
Butyl benzyl phthalate	< 37	ug/kg	37	118	1	8270C	4/30/2015	5/5/2015	MDK	1
Bis(2-chloroethoxy)methane	< 17	ug/kg	17	55	1	8270C	4/30/2015	5/5/2015	MDK	1
Bis(2-chloroethyl)ether	< 15	ug/kg	15	47	1	8270C	4/30/2015	5/5/2015	MDK	1
Bis(2-chloroisopropyl)ether	< 16	ug/kg	16	49	1	8270C	4/30/2015	5/5/2015	MDK	1
Bis(2-ethylhexyl)phthalate	66 "J"	ug/kg	24	76	1	8270C	4/30/2015	5/5/2015	MDK	5
4-Bromophenylphenyl ether	< 17	ug/kg	17	53	1	8270C	4/30/2015	5/5/2015	MDK	1
4-Chloro-3-methylphenol	< 20	ug/kg	20	63	1	8270C	4/30/2015	5/5/2015	MDK	1
2-Chloronaphthalene	< 19	ug/kg	19	60	1	8270C	4/30/2015	5/5/2015	MDK	1
2-Chlorophenol	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/5/2015	MDK	1
4-Chlorophenylphenyl ether	< 21	ug/kg	21	66	1	8270C	4/30/2015	5/5/2015	MDK	1
Chrysene	55 "J"	ug/kg	21	66	1	8270C	4/30/2015	5/5/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834F
 Sample ID GP-6 (0-15')
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
o-Cresol	< 24	ug/kg	24	77	1	8270C	4/30/2015	5/5/2015	MDK	1
m & p-Cresol	40 "J"	ug/kg	38	122	1	8270C	4/30/2015	5/5/2015	MDK	1
Dibenzofuran	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/5/2015	MDK	1
Dibenzo(a,h)anthracene	< 17	ug/kg	17	54	1	8270C	4/30/2015	5/5/2015	MDK	1
1,4-Dichlorobenzene	< 15	ug/kg	15	48	1	8270C	4/30/2015	5/5/2015	MDK	1
1,3-Dichlorobenzene	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/5/2015	MDK	1
1,2-Dichlorobenzene	< 16	ug/kg	16	51	1	8270C	4/30/2015	5/5/2015	MDK	1
3,3'-Dichlorobenzidine	< 13	ug/kg	13	42	1	8270C	4/30/2015	5/5/2015	MDK	1
2,4-Dichlorophenol	< 19	ug/kg	19	62	1	8270C	4/30/2015	5/5/2015	MDK	1
Diethyl phthalate	< 24	ug/kg	24	76	1	8270C	4/30/2015	5/5/2015	MDK	1
Dimethyl phthalate	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/5/2015	MDK	1
2,4-Dimethylphenol	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/5/2015	MDK	1
Di-n-butyl phthalate	< 26	ug/kg	26	84	1	8270C	4/30/2015	5/5/2015	MDK	1
2,4-Dinitrophenol	< 6.6	ug/kg	6.6	21	1	8270C	4/30/2015	5/5/2015	MDK	8
2,6-Dinitrotoluene	< 19	ug/kg	19	59	1	8270C	4/30/2015	5/5/2015	MDK	1
2,4-Dinitrotoluene	< 28	ug/kg	28	88	1	8270C	4/30/2015	5/5/2015	MDK	1
Di-n-octyl phthalate	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/5/2015	MDK	1
Diphenylamine	< 9.9	ug/kg	9.9	32	1	8270C	4/30/2015	5/5/2015	MDK	1
Fluoranthene	136	ug/kg	18	56	1	8270C	4/30/2015	5/5/2015	MDK	1
Fluorene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/5/2015	MDK	1
Hexachlorobenzene	< 17	ug/kg	17	55	1	8270C	4/30/2015	5/5/2015	MDK	1
Hexachlorobutadiene	< 20	ug/kg	20	64	1	8270C	4/30/2015	5/5/2015	MDK	1
Hexachlorocyclopentadiene	< 11	ug/kg	11	34	1	8270C	4/30/2015	5/5/2015	MDK	8
Hexachloroethane	< 14	ug/kg	14	44	1	8270C	4/30/2015	5/5/2015	MDK	1
Indeno(1,2,3-cd)pyrene	34 "J"	ug/kg	18	57	1	8270C	4/30/2015	5/5/2015	MDK	1
Isophorone	< 19	ug/kg	19	61	1	8270C	4/30/2015	5/5/2015	MDK	1
1-Methyl naphthalene	< 19	ug/kg	19	62	1	8270C	4/30/2015	5/5/2015	MDK	1
2-Methyl naphthalene	< 18	ug/kg	18	58	1	8270C	4/30/2015	5/5/2015	MDK	1
2-Methyl-4,6-dinitrophenol	< 9.1	ug/kg	9.1	29	1	8270C	4/30/2015	5/5/2015	MDK	8
Naphthalene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/5/2015	MDK	1
2-Nitroaniline	< 15	ug/kg	15	49	1	8270C	4/30/2015	5/5/2015	MDK	1
3-Nitroaniline	< 17	ug/kg	17	53	1	8270C	4/30/2015	5/5/2015	MDK	1
4-Nitroaniline	< 16	ug/kg	16	50	1	8270C	4/30/2015	5/5/2015	MDK	1
Nitrobenzene	< 18	ug/kg	18	56	1	8270C	4/30/2015	5/5/2015	MDK	1
2-Nitrophenol	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/5/2015	MDK	1
4-Nitrophenol	< 13	ug/kg	13	42	1	8270C	4/30/2015	5/5/2015	MDK	1
n-Nitrosodimethylamine	< 9.9	ug/kg	9.9	32	1	8270C	4/30/2015	5/5/2015	MDK	1
n-Nitrosodi-n-propylamine	< 25	ug/kg	25	79	1	8270C	4/30/2015	5/5/2015	MDK	1
Pentachlorophenol (PCP)	< 15	ug/kg	15	47	1	8270C	4/30/2015	5/5/2015	MDK	1
Phenanthrene	62 "J"	ug/kg	27	87	1	8270C	4/30/2015	5/5/2015	MDK	1
Phenol	< 20	ug/kg	20	62	1	8270C	4/30/2015	5/5/2015	MDK	1
Pyrene	98	ug/kg	21	66	1	8270C	4/30/2015	5/5/2015	MDK	1
Pyridine	< 17	ug/kg	17	54	1	8270C	4/30/2015	5/5/2015	MDK	1
2,3,4,6-Tetrachlorophenol	< 21	ug/kg	21	65	1	8270C	4/30/2015	5/5/2015	MDK	1
1,2,4-Trichlorobenzene	< 18	ug/kg	18	57	1	8270C	4/30/2015	5/5/2015	MDK	1
2,4,5-Trichlorophenol	< 20	ug/kg	20	63	1	8270C	4/30/2015	5/5/2015	MDK	1
2,4,6-Trichlorophenol	< 18	ug/kg	18	59	1	8270C	4/30/2015	5/5/2015	MDK	1
2-Fluorobiphenyl-surrogate	70	REC %			1	8270C	4/30/2015	5/5/2015	MDK	1
2-Fluorophenol-surrogate	74	REC %			1	8270C	4/30/2015	5/5/2015	MDK	1
Nitrobenzene-d5-surrogate	62	REC %			1	8270C	4/30/2015	5/5/2015	MDK	1
Phenol-d6-surrogate	67	REC %			1	8270C	4/30/2015	5/5/2015	MDK	1
p-Terphenyl-d14-surrogate	86	REC %			1	8270C	4/30/2015	5/5/2015	MDK	1
2,4,6-Tribromophenol-surrogate	88	REC %			1	8270C	4/30/2015	5/5/2015	MDK	1

Project Name VA PARKING LOT 7
 Project # 15233

Invoice # E28834

Lab Code 5028834G
 Sample ID TRIP BLANK
 Sample Matrix Soil
 Sample Date 4/27/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021	4/30/2015	4/30/2015	LPA	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021	4/30/2015	4/30/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021	4/30/2015	4/30/2015	LPA	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021	4/30/2015	4/30/2015	LPA	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021	4/30/2015	4/30/2015	LPA	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021	4/30/2015	4/30/2015	LPA	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021	4/30/2015	4/30/2015	LPA	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021	4/30/2015	4/30/2015	LPA	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

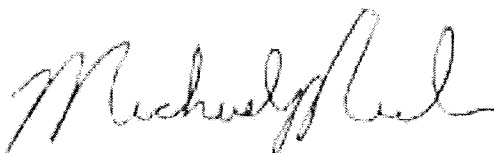
LOQ Limit of Quantitation

Code Comment

- 1 Laboratory QC within limits.
- 5 The QC blank not within established limits.
- 8 Closing calibration standard not within established limits.
- 43 Oil contamination indicated outside DRO window.
 CWT denotes sub contract lab - Certification #445126660
 ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Project Name VA PARKING STRUCTURE
 Project # 14776-002

Invoice # E27071

Lab Code 5027071G
 Sample ID COMP FILL
 Sample Matrix Soil
 Sample Date 5/30/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
TCLP Arsenic	< 0.45	mg/l	0.45		1	6010B		6/10/2014	ESC	1
TCLP Barium	< 1.4	mg/l	1.4		1	6010B		6/10/2014	ESC	1
TCLP Cadmium	< 0.45	mg/l	0.45		1	6010B		6/10/2014	ESC	1
TCLP Chromium	< 0.45	mg/l	0.45		1	6010B		6/10/2014	ESC	1
TCLP Copper	< 0.45	mg/l	0.45		1	6010B		6/10/2014	ESC	1
TCLP Lead	< 0.45	mg/l	0.45		1	6010B		6/10/2014	ESC	1
TCLP Mercury	< 0.001	mg/l	0.001		1	7470A		6/11/2014	ESC	1
TCLP Nickel	< 0.45	mg/l	0.45		1	6010B		6/10/2014	ESC	1
TCLP Selenium	< 0.45	mg/l	0.45		1	6010B		6/10/2014	ESC	1
TCLP Silver	< 0.45	mg/l	0.45		1	6010B		6/10/2014	ESC	1
TCLP Zinc	< 0.45	mg/l	0.45		1	6010B		6/10/2014	ESC	1
Organic										
PCB'S										
PCB-1016	< 0.0065	mg/kg	0.0065	0.02	1	EPA 8082A		6/6/2014	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.02	1	EPA 8082A		6/6/2014	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.02	1	EPA 8082A		6/6/2014	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.02	1	EPA 8082A		6/6/2014	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.02	1	EPA 8082A		6/6/2014	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.02	1	EPA 8082A		6/6/2014	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.02	1	EPA 8082A		6/6/2014	ESC	1
TCLP SVOC's										
TCLP o-Cresol	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP m & p-Cresol	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP 1,4-Dichlorobenzene	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP 2,4-Dinitrotoluene	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP Hexachlorobenzene	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP Hexachlorobutadiene	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP Hexachloroethane	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP Nitrobenzene	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP Pentachlorophenol	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP Phenol	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP Pyridine	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP 2,4,6-Trichlorophenol	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP 2,4,5-Trichlorophenol	< 0.1	mg/l	0.1		1	8270C		6/11/2014	ESC	1
TCLP VOC's										
TCLP Benzene	< 0.05	mg/l	0.05		1	8260B		6/10/2014	ESC	1
TCLP Carbon Tetrachloride	< 0.05	mg/l	0.05		1	8260B		6/10/2014	ESC	1
TCLP Chlorobenzene	< 0.05	mg/l	0.05		1	8260B		6/10/2014	ESC	1
TCLP Chloroform	< 0.25	mg/l	0.25		1	8260B		6/10/2014	ESC	1
TCLP 1,2-Dichloroethane	< 0.05	mg/l	0.05		1	8260B		6/10/2014	ESC	1
TCLP 1,1-Dichloroethene	< 0.05	mg/l	0.05		1	8260B		6/10/2014	ESC	1
TCLP Methyl Ethyl Ketone	< 0.5	mg/l	0.5		1	8260B		6/10/2014	ESC	1
TCLP Tetrachloroethene	< 0.05	mg/l	0.05		1	8260B		6/10/2014	ESC	1
TCLP Trichloroethene	< 0.05	mg/l	0.05		1	8260B		6/10/2014	ESC	1
TCLP Vinyl Chloride	< 0.05	mg/l	0.05		1	8260B		6/10/2014	ESC	1
Wet Chemistry										
General										
Specific Gravity	1.9	g/cm3			1	2710F		6/6/2014	ESC	1
Reactive Sulfide	< 25	mg/kg	25	25	1	EPA 9034		6/6/2014	ESC	1
Free Liquid	none				1	9095A		6/11/2014	ESC	1
Reactive Cyanide	< 0.125	mg/kg	0.125	0.125	1	9012B		6/10/2014	ESC	1
Solids, Total %	82.9	%			1	2540G		6/7/2014	ESC	1
pH	6.9	su			1	EPA 9045D		6/6/2014	ESC	1
Chlorides, Unfiltered	680	mg/kg	0.8	12	1	9056		6/7/2014	ESC	1
Flash Point	> 170	Deg. F			1	D93		6/13/2014	ESC	1

Project Name VA PARKING STRUCTURE
Project # 14776-002

Invoice # E27071

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

<i>Code</i>	<i>Comment</i>
1	Laboratory QC within limits.
2	Relative percent difference failed for laboratory spiked samples.
3	The matrix spike not within established limits.
8	Closing calibration standard not within established limits.
43	Oil contamination indicated outside DRO window.
49	Sample diluted to compensate for matrix interference.

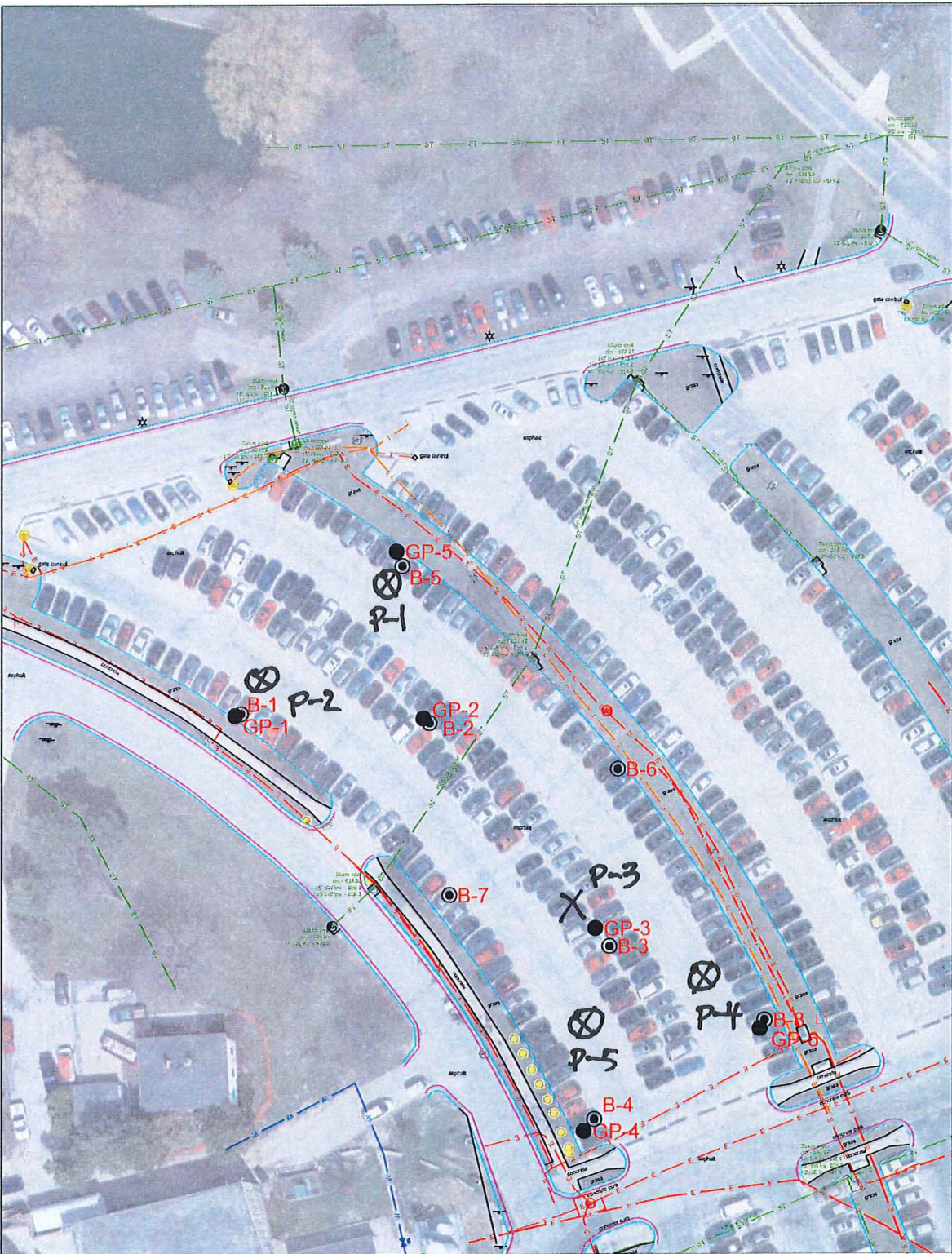
CWT denotes sub contract lab - Certification #445126660

ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

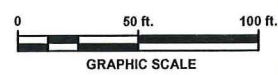




Project: 14223
 Directory: FIGURES
 Filename: P2_14223_SBLM
 Created By: ELO
 Date: 08/02/2014

LEGEND	
●	Environmental Geoprobe Soil Boring Location (April 2015)
⊙	Geotechnical Soil Boring Location (April-May 2015)

⊗ FEC Soil Probe October 2016



BOREHOLE LOCATION MAP
PARKING LOT 7 AT VAMC
 5000 W. NATIONAL AVENUE
 MILWAUKEE, WISCONSIN

FIGURE
2

**Table 1
Analytical Results - Soil Samples
VA Parking Structure (5000 W. National)
Milwaukee, Wisconsin**

Sample Location	Sampling Date	Lead (ppm)	Acena-phthene (ppb)	Acena-phthylene (ppb)	Anthracene (ppb)	Benzo (a) anthra-cene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluor-anthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluor-anthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthra-cene (ppb)	Fluor-anthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	1-Methyl Naph-thalene (ppb)	2-Methyl Naph-thalene (ppb)	Naph-thalene (ppb)	Phen-anthrene (ppb)	Pyrene (ppb)
P-1 (0-2)	10/10/2016	<0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-1 (4-6)	10/10/2016	NA	65.0	42.0	300	1,010	1,000	1,280	550	460	940	139	2,160	49.0	53	<14	<11	<12	500	1,820
P-1 (6-8)	10/10/2016	NA	<13	288.0	360	1,400	1,140	1,450	430	520	1,090	154	2,340	86.0	490	<14	19.3J	41	600	1,960
P-1 (8-10)	10/10/2016	23.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-2 (0-2)	10/10/2016	5.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-2 (4-6)	10/10/2016	NA	410	<12	430	490	490	690	298	234	490	71.0	1,360	410	2856	19.7J	13.7J	12.2	1,170	1,030
P-2 (8-10)	10/10/2016	NA	118	177	440.0	1,530	1800.0	2,400	1,150	840.0	1680.0	289	3,050	172	1,060	54	51	66	1,480	2,630
P-3 (0-2)	10/10/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-3 (4-6)	10/10/2016	8.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-3 (6-8)	10/10/2016	NA	14.8J	13J	14.7J	48	51	76	39	24.7J	48	<14.2	101	<13.5	32J	65	21.4J	137	45	86
P-3 (8-10)	10/10/2016	NA	<13.5	<12	<12.4	13.3J	<11.3	<13	<11.4	<11.7	<13.8	<14.2	14.2J	<13.5	<15	<14.3	<11.9	<12.2	18.7J	13.6J
P-4 (0-2)	10/10/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-4 (2-4)	10/10/2016	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-4 (8-10)	10/10/2016	NA	249	570	640	1,140	1,700	1,710	1,010	560	1,090	229	1,660	212.0	880	126	96	249	1,120	2,160
P-5 (0-2)	10/10/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-5 (4-6)	10/10/2016	8.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-5 (6-8)	10/10/2016	NA	106	28.4J	57	86	101	135	71	45	91	14.6J	197	59	59	59	18.7J	19.8J	148	193
P-5 (8-10)	10/10/2016	NA	<13.5	<12	<12.4	<11.6	<11.3	<13	<11.4	<11.7	<13.8	<14.2	<13.1	<13.5	<15	<14.3	<11.9	<12.2	<10.9	<12.6
NR 720 Groundwater RCL		27	*38,000	*700	196,744	*17,000	470	480	*6,800,000	*870,000	145	*38,000	88,818	14,815	*68,000	*23,000	*20,000	659	*1,800	54,473
NR 720 Non-industrial DC RCL		400	3,440,000	487,000	17,200,000	148	15	148	*1,800	1,480	14,800	15	2,290,000	2,290,000	148	15,600	229,000	5,150	115,000	1,720,000
NR 720 Industrial DC RCL		800	33,000,000	487,000	100,000,000	2,110	211	2,110	*39,000	21,100	211,000	211	22,000,000	22,000,000	2,110	53,100	368,000	26,000	115,000	16,500,000

* indicates a suggested value.

Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics*.

Note: Concentrations that exceed their respective non-industrial RCLs for direct contact within the top 4 feet are in **red bold**.

Note: "J" indicates estimated value above the level of detection but less than the level of quantification.

Table 2
Analytical Results - Soil Samples
VA Parking Structure (5000 W. National)
Milwaukee, Wisconsin

Sample Location	Sampling Date	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Combined TMBs (ppb)	Total Xylenes (ppb)
GP-5 (4-6)	4/27/2015	<25	<25	<25	<25	25.4J	<50	<50
GP-3 (2-8)	4/27/2015	<i>48.00</i>	33J	<25	80J	26.8J	41	42J
P-3 (0-2)	10/10/2016	<25	<25	<25	<25	<25	<50	<75
P-4 (0-2)	10/10/2016	<25	<25	<25	<25	<25	<50	<75
P-5 (0-2)	10/10/2016	<25	<25	<25	<25	<25	<50	<75
P-3 (0-2) Leach	10/10/2016	0.25	<0.4	<0.84	<0.737	0.32	2.50	1.30
<i>NR 720 Groundwater RCL</i>		<i>5.1</i>	<i>1,570</i>	<i>27</i>	<i>659</i>	<i>1,107</i>	<i>1,382</i>	<i>3,940</i>
<i>NR 720 Non-industrial DC RCL</i>		<i>1,490</i>	<i>7,470</i>	<i>59,400</i>	<i>5,150</i>	<i>818,000</i>	<i>90K/182K</i>	<i>258,000</i>
<i>NR 720 Industrial DC RCL</i>		<i>7,410</i>	<i>37,000</i>	<i>293,000</i>	<i>26,000</i>	<i>818,000</i>	<i>219K/182K</i>	<i>258,000</i>
<i>NR 140 ES</i>		<i>5</i>	<i>700</i>	<i>60</i>	<i>100</i>	<i>1,000</i>	<i>480</i>	<i>10,000</i>
<i>NR 140 PAL</i>		<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>200</i>	<i>96</i>	<i>1,000</i>

* indicates a suggested value.

Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics*.

Note: Concentrations that exceed their respective non-industrial RCLs for direct contact within the top 4 feet are in **red bold**.

Note: "J" indicates estimated value above the level of detection but less than the level of quantification.

Note: Concentrations in *green italics* exceed their respective NR 140 preventive action limits (PALs).

Note: Concentrations in **orange bold** exceed their respective NR 140 enforcement standards (ESs).

Note: NR 720 values are calculated utilizing the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-i

**Table 3
Analytical Results - Soil Leach Test
VA Parking Structure (5000 W. National)
Milwaukee, Wisconsin**

Sample Location	Sampling Date	Lead (ppb)	Acena-phthene (ppb)	Acena-phthylene (ppb)	Anthracene (ppb)	Benzo (a) anthra-cene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluor-anthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluor-anthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthra-cene (ppb)	Fluor-anthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naph-thalene (ppb)	Phen-anthrene (ppb)	Pyrene (ppb)
P-1 (4-6)	10/10/2016	NA	<0.033	<0.0233	<0.0267	<0.0277	<0.0527	<0.0071	<0.0066	<0.085	<0.048	<0.0151	<0.055	0.030	<0.0246	0.042	<0.067	<0.0517
P-1 (8-10)	10/10/2016	<3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-3 (4-6)	10/10/2016	<3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-3 (6-8)	10/10/2016	NA	<0.033	<0.0233	<0.0267	<0.0277	<0.0527	<0.019	<0.0205	<0.085	<0.048	0.019J	<0.055	0.030	<0.0246	0.042	<0.067	<0.0517
NR 140 ES		15	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	NS	250
NR 140 PAL		1.5	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50

Notes:

1. Only the detected compounds are presented.
2. Concentrations in exceed their respective NR 140 preventive action limits (PALs).
3. Concentrations in exceed their respective NR 140 enforcement standards (ESs).

**Table 4
Analytical Results - Soil Samples
VA Parking Structure (5000 W. National)
Milwaukee, Wisconsin**

Sample Location	Sampling Date	Lead (ppm)	Acena-phthene (ppb)	Acena-phthylene (ppb)	Anthracene (ppb)	Benzo (a) anthra-cene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluor-anthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluor-anthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthra-cene (ppb)	Fluor-anthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	1-Methyl Naph-thalene (ppb)	2-Methyl Naph-thalene (ppb)	Naph-thalene (ppb)	Phen-anthrene (ppb)	Pyrene (ppb)
GP-5 (4-6)	4/27/2015	78.0	<180	206J	500J	1,690	<i>1,430</i>	<i>2,140</i>	910	810	<i>1,450</i>	229J	3,800	<180	870	<180	<180	<180	1,900	2,550
P-1 (4-6)	10/10/2016	NA	65.0	42.0	300	1,010	<i>1,000</i>	<i>1,280</i>	550	460	<i>940</i>	139	2,160	49.0	53	<14	<11	<12	500	1,820
P-1 (4-6) Leach	10/10/2016	<0.0038	<0.033	<0.0233	<0.0267	<0.0277	<0.0527	<0.0071	<0.0066	<0.085	<0.048	<0.0151	<0.055	0.030	<0.0246	N	N	0.042	<0.067	<0.0517
GP-3 (2-8)	4/27/2015	32.0	<36	141.0	237	490	<i>500</i>	<i>640</i>	278	252	<i>410</i>	70J	1,190	70J	251	38J	44J	80J	670	910
P-3 (4-6)	10/10/2016	8.39	65.0	42.0	300	1,010	<i>1,000</i>	<i>1,280</i>	550	460	<i>940</i>	139	2,160	49.0	53	<14	<11	<12	500	1,820
P-3 (4-6) Leach	10/10/2016	<0.0038	<0.033	<0.0233	<0.0267	<0.0277	<0.0527	<0.019	<0.0205	<0.085	<0.048	0.019J	<0.055	0.030	<0.0246	NA	NA	<0.067	<0.067	<0.0517
NR 720 Groundwater RCL		27	*38,000	*700	196,744	*17,000	470	480	*6,800,000	*870,000	145	*38,000	88,818	14,815	*68,000	*23,000	*20,000	659	*1,800	54,473
NR 720 Non-industrial DC RCL		400	3,440,000	487,000	17,200,000	148	15	148	*1,800	1,480	14,800	15	2,290,000	2,290,000	148	15,600	229,000	5,150	115,000	1,720,000
NR 720 Industrial DC RCL		800	33,000,000	487,000	100,000,000	2,110	211	2,110	*39,000	21,100	211,000	211	22,000,000	22,000,000	2,110	53,100	368,000	26,000	115,000	16,500,000
NR 140 ES		0.015	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
NR 140 PAL		0.0015	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	NS	NS	10	NS	50

* indicates a suggested value.

Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics*.

Note: Concentrations that exceed their respective non-industrial RCLs for direct contact within the top 4 feet are in **red bold**.

Note: "J" indicates estimated value above the level of detection but less than the level of quantification.

Note: Concentrations in *green italics* exceed their respective NR 140 preventive action limits (PALs).

Note: Concentrations in **orange bold** exceed their respective NR 140 enforcement standards (ESs).

Note: NR 720 values are calculated utilizing the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890.

CHAIN OF CUSTODY RECORD

Synergy

Chain # 30527

Page 1 of 2

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
Account No.: _____ Quote No.: _____
Project #: 160806
Sampler: (signature) *Trenton Ott*

Project (Name / Location): VA
Reports To: Trenton Ott Invoice To: Same
Company: FEL, Inc. Company: _____
Address: 637 N. Sidney Place Address: _____
City State Zip: Milwaukee, WI 53209 City State Zip: _____
Phone: (414) 238-9815 Phone: _____
FAX: (414) 238-9810 FAX: _____

Analysis Requested		Other Analysis														
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	ASTM 3987 PAH Leach	ASTM 3987 PULVER Leach	PID/ FID
		X														
														X	X	
															X	
		X													X	
		X													X	
															X	
															X	
		X													X	
														X	X	

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
	P-1 0-2ft	10/13/16	AM		X	N	1	Soil	-
	P-1 4-6ft						2		-
	P-1 6-8ft						1		-
	P-1 8-10ft						1		-
	P-2 0-2ft						1		-
	P-2 4-6ft						1		-
	P-2 8-10ft						1		-
	P-3 0-2ft						3		NOH
	P-3 4-6ft						1		-
	P-3 6-8ft						2		-

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

ASTM 3987 Water Leach. Test w/ Neutral Water

Sample Integrity - To be completed by receiving lab.
Method of Shipment: _____
Temp. of Temp. Blank ____ °C On Ice: ____
Cooler seal intact upon receipt: ____ Yes ____ No

Relinquished By: (sign) *Trenton Ott* Time Date 12:44 10/13/16
Received By: (sign) *[Signature]* Time Date 12:44 10/13/16

Received in Laboratory By: _____ Time: _____ Date: _____

CHAIN OF CUSTODY RECORD

Synergy

Chain # 28862

Page 2 of 2

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
Account No. : _____ Quote No.: _____
Project #: 160806
Sampler: (signature) *[Signature]*

Project (Name / Location): VA
Reports To: Newton Ott
Company: FEC, Inc.
Address: 6637 N. Sidney Place
City State Zip: Milwaukee, WI 53209
Phone: (414) 338-9815
FAX: (414) 338-9816

Invoice To: Same
Company: _____
Address: _____
City State Zip: _____
Phone: _____
FAX: _____

Analysis Requested										Other Analysis									
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	ASTM 3987 PAH Leach	ASTM 3987 VOC+PAH Leach	PID/ FID			
					X										X				
								X							X				
		X			X										X				
								X							X				
		X													X				
					X										X				
					X										X				

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)
ASTM 3987 water leach Test w/ Neutral water.

Sample Integrity - To be completed by receiving lab.
Method of Shipment: _____
Temp. of Temp. Blank _____ °C On Ice: _____
Cooler seal intact upon receipt: Yes ___ No ___

Relinquished By: (sign) *[Signature]* Time Date 12:44 10/13/16
Received By: (sign) *[Signature]* Time Date 12:44 10/13/16

Received in Laboratory By: _____ Time: _____ Date: _____

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

TRENTON OTT
FEC. INC.
6637 N. SIDNEY PLACE
MILWAUKEE, WI 53209

Report Date 27-Oct-16

Project Name VA
Project # 160806
Lab Code 5031900A
Sample ID P-1 0-2'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.4	%			1	5021		10/14/2016	NJC	1
Inorganic										
Metals										
Lead, Total	< 0.52	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	149

Project Name VA
Project # 160806
Lab Code 5031900B
Sample ID P-1 4-6'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.4	%			1	5021		10/14/2016	NJC	1
Organic										
PAH SIM										
Acenaphthene	0.065	mg/kg	0.0135	0.043	1	M8270C	10/19/2016	10/19/2016	MJR	1
Acenaphthylene	0.042	mg/kg	0.012	0.0381	1	M8270C	10/19/2016	10/19/2016	MJR	1
Anthracene	0.30	mg/kg	0.0124	0.0395	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)anthracene	1.01	mg/kg	0.0116	0.037	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)pyrene	1.0	mg/kg	0.0113	0.0359	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(b)fluoranthene	1.28	mg/kg	0.013	0.0414	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(g,h,i)perylene	0.55	mg/kg	0.0114	0.0363	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(k)fluoranthene	0.46	mg/kg	0.0117	0.0371	1	M8270C	10/19/2016	10/19/2016	MJR	1
Chrysene	0.94	mg/kg	0.0138	0.0439	1	M8270C	10/19/2016	10/19/2016	MJR	1
Dibenzo(a,h)anthracene	0.139	mg/kg	0.0142	0.0453	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluoranthene	2.16	mg/kg	0.0131	0.0418	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluorene	0.049	mg/kg	0.0135	0.0431	1	M8270C	10/19/2016	10/19/2016	MJR	1
Indeno(1,2,3-cd)pyrene	0.53	mg/kg	0.015	0.0476	1	M8270C	10/19/2016	10/19/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/19/2016	10/19/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/19/2016	10/19/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/19/2016	10/19/2016	MJR	1
Phenanthrene	0.50	mg/kg	0.0109	0.0347	1	M8270C	10/19/2016	10/19/2016	MJR	1
Pyrene	1.82	mg/kg	0.0126	0.0401	1	M8270C	10/19/2016	10/19/2016	MJR	1
SPLP										
SPLP Acenaphthene	< 0.033	ug/l	0.01	0.033	1	8270 C		10/21/2016	ESC	1
SPLP Acenaphthylene	< 0.0233	ug/l	0.007	0.0233	1	8270 C		10/21/2016	ESC	1
SPLP Anthracene	< 0.0267	ug/l	0.008	0.0267	1	8270 C		10/21/2016	ESC	1
SPLP Benzo(a)anthracene	< 0.0277	ug/l	0.0083	0.0277	1	8270 C		10/21/2016	ESC	1
SPLP Benzo(a)pyrene	< 0.0527	ug/l	0.0158	0.0527	1	8270 C		10/21/2016	ESC	1
SPLP Benzo(b)fluoranthene	< 0.0071	ug/l	0.0021	0.0071	1	8270 C		10/21/2016	ESC	1
SPLP Benzo(g,h,i)perylene	< 0.0076	ug/l	0.0023	0.0076	1	8270 C		10/21/2016	ESC	1
SPLP Benzo(k)fluoranthene	< 0.085	ug/l	0.0255	0.085	1	8270 C		10/21/2016	ESC	1
SPLP Chrysene	< 0.048	ug/l	0.0144	0.048	1	8270 C		10/21/2016	ESC	1
SPLP Dibenzo(a,h)anthracene	< 0.0151	ug/l	0.0045	0.0151	1	8270 C		10/21/2016	ESC	1
SPLP Fluoranthene	< 0.055	ug/l	0.0165	0.055	1	8270 C		10/21/2016	ESC	1
SPLP Fluorene	< 0.03	ug/l	0.009	0.03	1	8270 C		10/21/2016	ESC	1
SPLP Indeno(1,2,3-cd)pyrene	< 0.0246	ug/l	0.0074	0.0246	1	8270 C		10/21/2016	ESC	1
SPLP Naphthalene	0.042	ug/l	0.012	0.04	1	8270 C		10/21/2016	ESC	5
SPLP Phenanthrene	< 0.0613	ug/l	0.0184	0.0613	1	8270 C		10/21/2016	ESC	1
SPLP Pyrene	< 0.0517	ug/l	0.0155	0.0517	1	8270 C		10/21/2016	ESC	1

Project Name VA
Project # 160806
Lab Code 5031900C
Sample ID P-1 6-8'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.7	%			1	5021		10/14/2016	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/19/2016	10/19/2016	MJR	1
Acenaphthylene	0.288	mg/kg	0.012	0.0381	1	M8270C	10/19/2016	10/19/2016	MJR	1
Anthracene	0.36	mg/kg	0.0124	0.0395	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)anthracene	1.4	mg/kg	0.0116	0.037	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)pyrene	1.14	mg/kg	0.0113	0.0359	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(b)fluoranthene	1.45	mg/kg	0.013	0.0414	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(g,h,i)perylene	0.43	mg/kg	0.0114	0.0363	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(k)fluoranthene	0.52	mg/kg	0.0117	0.0371	1	M8270C	10/19/2016	10/19/2016	MJR	1
Chrysene	1.09	mg/kg	0.0138	0.0439	1	M8270C	10/19/2016	10/19/2016	MJR	1
Dibenzo(a,h)anthracene	0.154	mg/kg	0.0142	0.0453	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluoranthene	2.34	mg/kg	0.0131	0.0418	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluorene	0.086	mg/kg	0.0135	0.0431	1	M8270C	10/19/2016	10/19/2016	MJR	1
Indeno(1,2,3-cd)pyrene	0.49	mg/kg	0.015	0.0476	1	M8270C	10/19/2016	10/19/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/19/2016	10/19/2016	MJR	1
2-Methyl naphthalene	0.0193 "J"	mg/kg	0.0119	0.038	1	M8270C	10/19/2016	10/19/2016	MJR	1
Naphthalene	0.041	mg/kg	0.0122	0.0387	1	M8270C	10/19/2016	10/19/2016	MJR	1
Phenanthrene	0.60	mg/kg	0.0109	0.0347	1	M8270C	10/19/2016	10/19/2016	MJR	1
Pyrene	1.96	mg/kg	0.0126	0.0401	1	M8270C	10/19/2016	10/19/2016	MJR	1

Lab Code 5031900D
Sample ID P-1 8-10'
Sample Matrix Soil
Sample Date 10/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.1	%			1	5021		10/14/2016	NJC	1
Inorganic										
Metals										
Lead, Total	23.6	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49

Lab Code 5031900E
Sample ID P-2 0-2'
Sample Matrix Soil
Sample Date 10/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.9	%			1	5021		10/14/2016	NJC	1
Inorganic										
Metals										
Lead, Total	5.15	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49

Project Name VA
Project # 160806
Lab Code 5031900F
Sample ID P-2 4-6'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.6	%			1	5021		10/14/2016	NJC	1
Organic										
PAH SIM										
Acenaphthene	0.41	mg/kg	0.0135	0.043	1	M8270C	10/19/2016	10/19/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/19/2016	10/19/2016	MJR	1
Anthracene	0.43	mg/kg	0.0124	0.0395	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)anthracene	0.49	mg/kg	0.0116	0.037	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)pyrene	0.49	mg/kg	0.0113	0.0359	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(b)fluoranthene	0.69	mg/kg	0.013	0.0414	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(g,h,i)perylene	0.298	mg/kg	0.0114	0.0363	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(k)fluoranthene	0.234	mg/kg	0.0117	0.0371	1	M8270C	10/19/2016	10/19/2016	MJR	1
Chrysene	0.49	mg/kg	0.0138	0.0439	1	M8270C	10/19/2016	10/19/2016	MJR	1
Dibenzo(a,h)anthracene	0.071	mg/kg	0.0142	0.0453	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluoranthene	1.36	mg/kg	0.0131	0.0418	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluorene	0.41	mg/kg	0.0135	0.0431	1	M8270C	10/19/2016	10/19/2016	MJR	1
Indeno(1,2,3-cd)pyrene	0.285	mg/kg	0.015	0.0476	1	M8270C	10/19/2016	10/19/2016	MJR	1
1-Methyl naphthalene	0.0197 "J"	mg/kg	0.0143	0.0456	1	M8270C	10/19/2016	10/19/2016	MJR	1
2-Methyl naphthalene	0.0137 "J"	mg/kg	0.0119	0.038	1	M8270C	10/19/2016	10/19/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/19/2016	10/19/2016	MJR	1
Phenanthrene	1.17	mg/kg	0.0109	0.0347	1	M8270C	10/19/2016	10/19/2016	MJR	1
Pyrene	1.03	mg/kg	0.0126	0.0401	1	M8270C	10/19/2016	10/19/2016	MJR	1

Lab Code 5031900G
Sample ID P-2 8-10'
Sample Matrix Soil
Sample Date 10/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.6	%			1	5021		10/14/2016	NJC	1
Organic										
PAH SIM										
Acenaphthene	0.118	mg/kg	0.0135	0.043	1	M8270C	10/19/2016	10/19/2016	MJR	1
Acenaphthylene	0.177	mg/kg	0.012	0.0381	1	M8270C	10/19/2016	10/19/2016	MJR	1
Anthracene	0.44	mg/kg	0.0124	0.0395	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)anthracene	1.53	mg/kg	0.0116	0.037	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)pyrene	1.8	mg/kg	0.0113	0.0359	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(b)fluoranthene	2.4	mg/kg	0.013	0.0414	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(g,h,i)perylene	1.15	mg/kg	0.0114	0.0363	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(k)fluoranthene	0.84	mg/kg	0.0117	0.0371	1	M8270C	10/19/2016	10/19/2016	MJR	1
Chrysene	1.68	mg/kg	0.0138	0.0439	1	M8270C	10/19/2016	10/19/2016	MJR	1
Dibenzo(a,h)anthracene	0.289	mg/kg	0.0142	0.0453	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluoranthene	3.05	mg/kg	0.0131	0.0418	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluorene	0.172	mg/kg	0.0135	0.0431	1	M8270C	10/19/2016	10/19/2016	MJR	1
Indeno(1,2,3-cd)pyrene	1.06	mg/kg	0.015	0.0476	1	M8270C	10/19/2016	10/19/2016	MJR	1
1-Methyl naphthalene	0.054	mg/kg	0.0143	0.0456	1	M8270C	10/19/2016	10/19/2016	MJR	1
2-Methyl naphthalene	0.051	mg/kg	0.0119	0.038	1	M8270C	10/19/2016	10/19/2016	MJR	1
Naphthalene	0.066	mg/kg	0.0122	0.0387	1	M8270C	10/19/2016	10/19/2016	MJR	1
Phenanthrene	1.48	mg/kg	0.0109	0.0347	1	M8270C	10/19/2016	10/19/2016	MJR	1
Pyrene	2.63	mg/kg	0.0126	0.0401	1	M8270C	10/19/2016	10/19/2016	MJR	1

Project Name VA
Project # 160806
Lab Code 5031900H
Sample ID P-3 0-2'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.0	%			1	5021		10/14/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/25/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		10/25/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/25/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		10/25/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		10/25/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/25/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		10/25/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		10/25/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		10/25/2016	CJR	1
SPLP										
SPLP Benzene	0.252	ug/l	0.07	0.233	1	8021		10/20/2016	ESC	5
SPLP Ethylbenzene	< 0.4	ug/l	0.12	0.4	1	8021		10/20/2016	ESC	1
SPLP Methyl tert-butyl ether (MT)	< 0.84	ug/l	0.252	0.84	1	8021		10/20/2016	ESC	1
SPLP Naphthalene	< 0.737	ug/l	0.221	0.737	1	8021		10/20/2016	ESC	1
SPLP Toluene	0.315	ug/l	0.065	0.217	1	8021		10/20/2016	ESC	5
SPLP 1,2,4-Trimethylbenzene	1.79	ug/l	0.093	0.31	1	8021		10/20/2016	ESC	5
SPLP 1,3,5-Trimethylbenzene	0.632	ug/l	0.079	0.263	1	8021		10/20/2016	ESC	5
SPLP m-p Xylene	0.815	ug/l	0.121	0.403	1	8021		10/20/2016	ESC	5
SPLP o-Xylene	0.485	ug/l	0.104	0.347	1	8021		10/20/2016	ESC	5

Lab Code 5031900I
Sample ID P-3 4-6'
Sample Matrix Soil
Sample Date 10/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.2	%			1	5021		10/14/2016	NJC	1
Inorganic										
Metals										
Lead, Total	8.39	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	149

Project Name VA
Project # 160806
Lab Code 5031900J
Sample ID P-3 6-8'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.6	%			1	5021		10/14/2016	NJC	1
Organic										
PAH SIM										
Acenaphthene	0.0148 "J"	mg/kg	0.0135	0.043	1	M8270C	10/19/2016	10/19/2016	MJR	1
Acenaphthylene	0.013 "J"	mg/kg	0.012	0.0381	1	M8270C	10/19/2016	10/19/2016	MJR	1
Anthracene	0.0147 "J"	mg/kg	0.0124	0.0395	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)anthracene	0.048	mg/kg	0.0116	0.037	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)pyrene	0.051	mg/kg	0.0113	0.0359	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(b)fluoranthene	0.076	mg/kg	0.013	0.0414	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(g,h,i)perylene	0.039	mg/kg	0.0114	0.0363	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(k)fluoranthene	0.0247 "J"	mg/kg	0.0117	0.0371	1	M8270C	10/19/2016	10/19/2016	MJR	1
Chrysene	0.048	mg/kg	0.0138	0.0439	1	M8270C	10/19/2016	10/19/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluoranthene	0.101	mg/kg	0.0131	0.0418	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/19/2016	10/19/2016	MJR	1
Indeno(1,2,3-cd)pyrene	0.032 "J"	mg/kg	0.015	0.0476	1	M8270C	10/19/2016	10/19/2016	MJR	1
1-Methyl naphthalene	0.065	mg/kg	0.0143	0.0456	1	M8270C	10/19/2016	10/19/2016	MJR	1
2-Methyl naphthalene	0.0214 "J"	mg/kg	0.0119	0.038	1	M8270C	10/19/2016	10/19/2016	MJR	1
Naphthalene	0.137	mg/kg	0.0122	0.0387	1	M8270C	10/19/2016	10/19/2016	MJR	1
Phenanthrene	0.045	mg/kg	0.0109	0.0347	1	M8270C	10/19/2016	10/19/2016	MJR	1
Pyrene	0.086	mg/kg	0.0126	0.0401	1	M8270C	10/19/2016	10/19/2016	MJR	1
SPLP										
SPLP Acenaphthene	< 0.033	ug/l	0.01	0.033	1	8270 C		10/25/2016	ESC	1
SPLP Acenaphthylene	< 0.0233	ug/l	0.007	0.0233	1	8270 C		10/25/2016	ESC	1
SPLP Anthracene	< 0.0267	ug/l	0.008	0.0267	1	8270 C		10/25/2016	ESC	1
SPLP Benzo(a)anthracene	< 0.0277	ug/l	0.0083	0.0277	1	8270 C		10/25/2016	ESC	1
SPLP Benzo(a)pyrene	< 0.0527	ug/l	0.0158	0.0527	1	8270 C		10/25/2016	ESC	1
SPLP Benzo(b)fluoranthene	0.0191	ug/l	0.0021	0.0071	1	8270 C		10/25/2016	ESC	5
SPLP Benzo(g,h,i)perylene	0.0205	ug/l	0.0023	0.0076	1	8270 C		10/25/2016	ESC	5
SPLP Benzo(k)fluoranthene	< 0.085	ug/l	0.0255	0.085	1	8270 C		10/25/2016	ESC	1
SPLP Chrysene	< 0.048	ug/l	0.0144	0.048	1	8270 C		10/25/2016	ESC	1
SPLP Dibenzo(a,h)anthracene	0.019 "J"	ug/l	0.0045	0.0151	1	8270 C		10/25/2016	ESC	1
SPLP Fluoranthene	< 0.055	ug/l	0.0165	0.055	1	8270 C		10/25/2016	ESC	1
SPLP Fluorene	< 0.03	ug/l	0.009	0.03	1	8270 C		10/25/2016	ESC	1
SPLP Indeno(1,2,3-cd)pyrene	< 0.0246	ug/l	0.0074	0.0246	1	8270 C		10/25/2016	ESC	1
SPLP Naphthalene	< 0.04	ug/l	0.012	0.04	1	8270 C		10/25/2016	ESC	1
SPLP Phenanthrene	< 0.0613	ug/l	0.0184	0.0613	1	8270 C		10/25/2016	ESC	1
SPLP Pyrene	< 0.0517	ug/l	0.0155	0.0517	1	8270 C		10/25/2016	ESC	1

Project Name VA
Project # 160806
Lab Code 5031900K
Sample ID P-3 8-10'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.8	%			1	5021		10/14/2016	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/19/2016	10/19/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/19/2016	10/19/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)anthracene	0.0133 "J"	mg/kg	0.0116	0.037	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/19/2016	10/19/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/19/2016	10/19/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/19/2016	10/19/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluoranthene	0.0142 "J"	mg/kg	0.0131	0.0418	1	M8270C	10/19/2016	10/19/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/19/2016	10/19/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/19/2016	10/19/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/19/2016	10/19/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/19/2016	10/19/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/19/2016	10/19/2016	MJR	1
Phenanthrene	0.0187 "J"	mg/kg	0.0109	0.0347	1	M8270C	10/19/2016	10/19/2016	MJR	1
Pyrene	0.0136 "J"	mg/kg	0.0126	0.0401	1	M8270C	10/19/2016	10/19/2016	MJR	1

Lab Code 5031900L
Sample ID P-4 0-2'
Sample Matrix Soil
Sample Date 10/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.5	%			1	5021		10/14/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/19/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		10/19/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/19/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		10/19/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		10/19/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/19/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		10/19/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		10/19/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		10/19/2016	CJR	1

Project Name VA
Project # 160806
Lab Code 5031900M
Sample ID P-4 4-6'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.9	%			1	5021		10/14/2016	NJC	1
Inorganic										
Metals										
Lead, Total	6.70	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49

Lab Code 5031900N
Sample ID P-4 8-10'
Sample Matrix Soil
Sample Date 10/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.5	%			1	5021		10/14/2016	NJC	1
Organic										
PAH SIM										
Acenaphthene	0.249	mg/kg	0.0135	0.043	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Acenaphthylene	0.57	mg/kg	0.012	0.0381	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Anthracene	0.64	mg/kg	0.0124	0.0395	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Benzo(a)anthracene	1.14	mg/kg	0.0116	0.037	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Benzo(a)pyrene	1.7	mg/kg	0.0113	0.0359	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Benzo(b)fluoranthene	1.71	mg/kg	0.013	0.0414	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Benzo(g,h,i)perylene	1.01	mg/kg	0.0114	0.0363	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Benzo(k)fluoranthene	0.56	mg/kg	0.0117	0.0371	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Chrysene	1.09	mg/kg	0.0138	0.0439	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Dibenzo(a,h)anthracene	0.229	mg/kg	0.0142	0.0453	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Fluoranthene	1.66	mg/kg	0.0131	0.0418	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Fluorene	0.212	mg/kg	0.0135	0.0431	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Indeno(1,2,3-cd)pyrene	0.88	mg/kg	0.015	0.0476	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
1-Methyl naphthalene	0.126	mg/kg	0.0143	0.0456	1	M8270C	10/19/2016	10/20/2016	MJR	1
2-Methyl naphthalene	0.096	mg/kg	0.0119	0.038	1	M8270C	10/19/2016	10/20/2016	MJR	1
Naphthalene	0.249	mg/kg	0.0122	0.0387	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Phenanthrene	1.12	mg/kg	0.0109	0.0347	1	M8270C	10/19/2016	10/20/2016	MJR	1 75
Pyrene	2.16	mg/kg	0.0126	0.0401	1	M8270C	10/19/2016	10/20/2016	MJR	1 75

Project Name VA
Project # 160806
Lab Code 50319000
Sample ID P-5 0-2'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.0	%			1	5021		10/14/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/19/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		10/19/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/19/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		10/19/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		10/19/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/19/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		10/19/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		10/19/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		10/19/2016	CJR	1

Lab Code 5031900P
Sample ID P-5 4-6'
Sample Matrix Soil
Sample Date 10/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.0	%			1	5021		10/14/2016	NJC	1
Inorganic										
Metals										
Lead, Total	8.91	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49

Project Name VA
Project # 160806
Lab Code 5031900Q
Sample ID P-5 6-8'
Sample Matrix Soil
Sample Date 10/10/2016

Invoice # E31900

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.1	%			1	5021		10/14/2016	NJC	1
Organic										
PAH SIM										
Acenaphthene	0.106	mg/kg	0.0135	0.043	1	M8270C	10/19/2016	10/20/2016	MJR	1
Acenaphthylene	0.0284 "J"	mg/kg	0.012	0.0381	1	M8270C	10/19/2016	10/20/2016	MJR	1
Anthracene	0.057	mg/kg	0.0124	0.0395	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(a)anthracene	0.086	mg/kg	0.0116	0.037	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(a)pyrene	0.101	mg/kg	0.0113	0.0359	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(b)fluoranthene	0.135	mg/kg	0.013	0.0414	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(g,h,i)perylene	0.071	mg/kg	0.0114	0.0363	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(k)fluoranthene	0.045	mg/kg	0.0117	0.0371	1	M8270C	10/19/2016	10/20/2016	MJR	1
Chrysene	0.091	mg/kg	0.0138	0.0439	1	M8270C	10/19/2016	10/20/2016	MJR	1
Dibenzo(a,h)anthracene	0.0146 "J"	mg/kg	0.0142	0.0453	1	M8270C	10/19/2016	10/20/2016	MJR	1
Fluoranthene	0.197	mg/kg	0.0131	0.0418	1	M8270C	10/19/2016	10/20/2016	MJR	1
Fluorene	0.059	mg/kg	0.0135	0.0431	1	M8270C	10/19/2016	10/20/2016	MJR	1
Indeno(1,2,3-cd)pyrene	0.059	mg/kg	0.015	0.0476	1	M8270C	10/19/2016	10/20/2016	MJR	1
1-Methyl naphthalene	0.059	mg/kg	0.0143	0.0456	1	M8270C	10/19/2016	10/20/2016	MJR	1
2-Methyl naphthalene	0.0187 "J"	mg/kg	0.0119	0.038	1	M8270C	10/19/2016	10/20/2016	MJR	1
Naphthalene	0.0198 "J"	mg/kg	0.0122	0.0387	1	M8270C	10/19/2016	10/20/2016	MJR	1
Phenanthrene	0.148	mg/kg	0.0109	0.0347	1	M8270C	10/19/2016	10/20/2016	MJR	1
Pyrene	0.193	mg/kg	0.0126	0.0401	1	M8270C	10/19/2016	10/20/2016	MJR	1

Lab Code 5031900R
Sample ID P-5 8-10'
Sample Matrix Soil
Sample Date 10/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.1	%			1	5021		10/14/2016	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/19/2016	10/20/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/19/2016	10/20/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/19/2016	10/20/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/19/2016	10/20/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/19/2016	10/20/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/19/2016	10/20/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/19/2016	10/20/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/19/2016	10/20/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/19/2016	10/20/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/19/2016	10/20/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/19/2016	10/20/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/19/2016	10/20/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/19/2016	10/20/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/19/2016	10/20/2016	MJR	1

Project Name VA
Project # 160806

Invoice # E31900

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

<i>Code</i>	<i>Comment</i>
1	Laboratory QC within limits.
5	The QC blank not within established limits.
49	Sample diluted to compensate for matrix interference.
75	RPD failed due to matrix interference.
	CWT denotes sub contract lab - Certification #445126660
	ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Michael J. Paul

(Please Print Clearly)

Company Name: FEC, Inc.
 Branch/Location: Milwaukee
 Project Contact: Trenton Ott
 Phone: (414) 228-9815
 Project Number: 160806
 Project Name: VA
 Project State: WI
 Sampled By (Print): Trenton Ott
 Sampled By (Sign): [Signature]
 PO #: _____ Regulatory Program: _____



CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESEVATION
(CODE)*

Y/N	Pick Letter	Analysis Requested	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
N	A	PO																				
		ASPM 3987																				

Quote #: _____
 Mail To Contact: Trenton Ott
 Mail To Company: FEC, Inc.
 Mail To Address: 667 N. Sidney Place
Milwaukee, WI 53209
 Invoice To Contact: Same
 Invoice To Company: Same
 Invoice To Address: Same
 Invoice To Phone: (414) 228-9815
 CLIENT COMMENTS: _____ LAB COMMENTS (Lab Use Only): _____ Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested
		DATE	TIME		
	P-1 B-10ft	10/16/16	AM	Soil	X
	P-3 4-6ft				X

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <u>[Signature]</u> Date/Time: <u>10/13/16 1544</u>	Received By: <u>Mary Jarrin</u> Date/Time: <u>10/13/16 1544</u>	PACE Project No. _____ Receipt Temp = _____ °C Sample Receipt pH _____ OK / Adjusted _____ Cooler Custody Seal Present / Not Present _____ Intact / Not Intact _____
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Samples on HOLD are subject to special pricing and release of liability

October 20, 2016

TRENT OTT
Friess Environmental Consulting, Inc
6637 NORTH SIDNEY PLACE
Milwaukee, WI 53209

RE: Project: 160806 VA
Pace Project No.: 40140121

Dear TRENT OTT:

Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 160806 VA
Pace Project No.: 40140121

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150

South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 160806 VA
Pace Project No.: 40140121

<u>Lab ID</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
40140121001	P-1 8-10 FT	Solid	10/10/16 00:00	10/14/16 10:10
40140121002	P-3 4-6 FT	Solid	10/10/16 00:00	10/14/16 10:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 160806 VA
Pace Project No.: 40140121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40140121001	P-1 8-10 FT	EPA 6010	DLB	1	PASI-G
40140121002	P-3 4-6 FT	EPA 6010	DLB	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 160806 VA
Pace Project No.: 40140121

Sample: P-1 8-10 FT **Lab ID: 40140121001** Collected: 10/10/16 00:00 Received: 10/14/16 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, ASTM	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 10/17/16 00:00								
Lead	<0.0038	mg/L	0.012	0.0038	1	10/18/16 13:37	10/19/16 10:47	7439-92-1	

Sample: P-3 4-6 FT **Lab ID: 40140121002** Collected: 10/10/16 00:00 Received: 10/14/16 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, ASTM	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 10/17/16 00:00								
Lead	<0.0038	mg/L	0.012	0.0038	1	10/18/16 13:37	10/19/16 10:53	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 160806 VA
Pace Project No.: 40140121

QC Batch: 238469 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET ASTM
Associated Lab Samples: 40140121001, 40140121002

METHOD BLANK: 1412898 Matrix: Water
Associated Lab Samples: 40140121001, 40140121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0038	0.012	10/19/16 10:42	

METHOD BLANK: 1411756 Matrix: Solid
Associated Lab Samples: 40140121001, 40140121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0038	0.012	10/19/16 10:56	

LABORATORY CONTROL SAMPLE: 1412899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	.5	0.49	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1412900 1412901

Parameter	Units	40140121001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Lead	mg/L	<0.0038	.5	.5	0.49	0.49	97	98	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 160806 VA
Pace Project No.: 40140121

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 160806 VA
Pace Project No.: 40140121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40140121001	P-1 8-10 FT	EPA 3010	238469	EPA 6010	238551
40140121002	P-3 4-6 FT	EPA 3010	238469	EPA 6010	238551

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Project / WO#: 40140121

Client Name: FEC

Courier: Fed Ex UPS Client Pace Other: CS Logistics



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT / Corr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 10/14/16
Initials: BN

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) <u>BN 10/14/16</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed Lab Std #ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: CR Date: 10/14/16

DRAFT ENVIRONMENTAL ASSESSMENT

FOR

CLEMENT J. ZABLOCKI VETERANS AFFAIRS MEDICAL CENTER PARKING STRUCTURE LOT 7 VA PROJECT 695-325 (A/E)

SITE:

CLEMENT J. ZABLOCKI VETERANS AFFAIRS MEDICAL CENTER
5000 WEST NATIONAL AVENUE
MILWAUKEE, WI 53295-0005



PREPARED BY:

PREPARED FOR:

THE  **SIGMA** GROUP
Single Source. Sound Solutions.

www.thesigmagroup.com

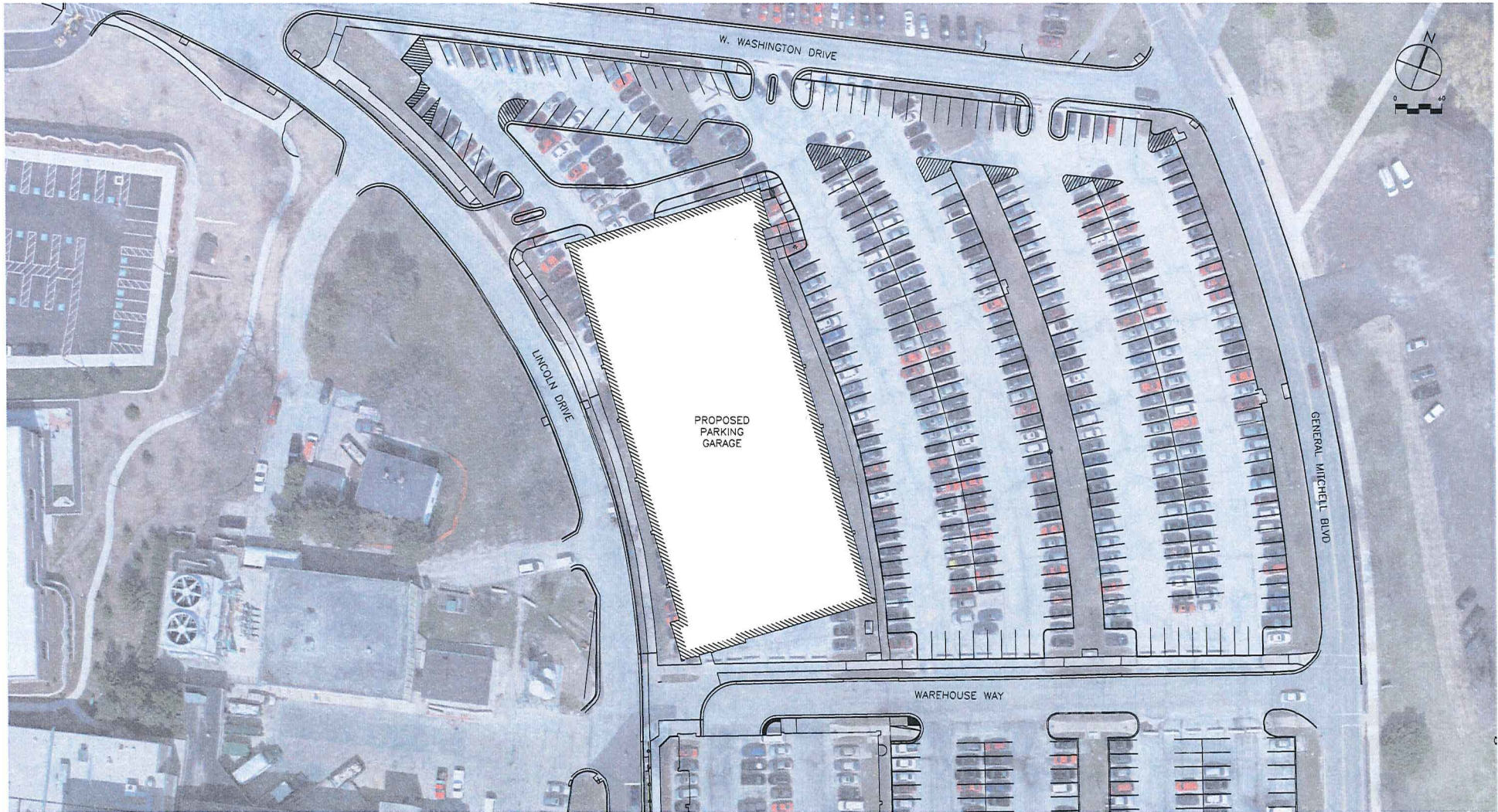
1300 West Canal Street
Milwaukee, WI 53233
414-643-4200

UNITED STATES DEPARTMENT
OF VETERANS AFFAIRS



PROJECT REFERENCE #15233

NOVEMBER 2015



Parking Structure Lot 7 - Proposed Site Plan

Clement J. Zablocki VA Medical Center

11/11/2015

5000 W. National Ave.
Milwaukee, WI 53295

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