Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

SCS ENGINEERS

March 8, 2018
File No. 25211228.72

Mr. Wendell Wojner
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Revised Cost Estimate for Remedial Action
McGettigan Property (MOM Partnership)
2803 – 2809 University Avenue
Madison, Wisconsin
BRRTS No. 02-13-321347

Dear Mr. Wojner:

On behalf of the MOM Partnership, SCS Engineers (SCS) is providing this revised cost estimate for contaminated soil excavation and groundwater monitoring activities presented in the February 3, 2009 BT Squared Proposal for Remedial Action. We understand the original proposal was acceptable to the Wisconsin Department of Natural Resources (WDNR) at the time of submittal; however, the work did not proceed due to financial limitations and subsequent focus on vapor assessment and mitigation tasks.

REVISED SCOPE OF WORK

The excavation dimensions and soil confirmation sampling will remain the same as defined in the February 3, 2009 Proposal. The following changes in scope are proposed:

- Pre-excavation soil sampling for waste characterization purposes will not be performed as defined in the original proposal. Per our communications with Waste Management, the sampling is no longer necessary for the landfill profile approval (**Attachment A**).

- For structural integrity, the building will be surveyed prior to and during excavation activities to monitor for movement. The original proposal did not include building monitoring. Monitoring tasks are defined in the attached revised Bid Package (**Attachment B**).

- As requested by WDNR, four rounds of quarterly groundwater monitoring will be performed following excavation work to monitor for natural attenuation of chlorinated volatile organic compounds. All 14 monitoring wells will be sampled for volatile organic compounds (VOCs). During one of the quarterly events the wells will also be sampled for sulfate, methane, ethane, and ethene. Findings will be

summarized in two semiannual reports. The original proposal assumed one report, and three semiannual sampling events for 14 wells with sampling for only VOCs.

- Case closure and well abandonment scope and costs will be submitted following excavation and groundwater monitoring as discussed with WDNR. The original proposal included scope for preparation of a case closure request and abandonment of site monitoring wells.

REVISED COST ESTIMATE

Revised cost spreadsheets and backup documentation are included in **Attachment C**. The total revised cost is $132,751. This includes $99,250 in excavation, landfill, and laboratory contractor costs and $33,501 in SCS time-and-material costs.

Please call Robert Langdon at (608) 216-7329 if you have any questions regarding this letter.

Sincerely,

Robert Langdon
Senior Project Manager
SCS ENGINEERS

Mark R. Huber, PE
Project Director
SCS ENGINEERS

RL/lmh/MRH

cc: Dennis O'Loughlin, MOM Partnership

Attachments: A – Waste Management Correspondence
B – Revised Soil Excavation Bid Package
C – Revised Cost Spreadsheets

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ATTACHMENT A

Waste Management Correspondence

Langdon, Robert

From: Smith, Brian <bsmith45@wm.com>
Sent: Friday, February 09, 2018 12:24 PM
To: Langdon, Robert
Cc: Vanderkin, Brad; Neumann, Zachary; Nelson, Debra
Subject: RE: WM Pricing: SCS, University Ave Madison, Dry Cleaner Project

Hey Rob. Everything looks good on our end to dispose of as Direct landfill at Madison Prairie. No additional testing is needed. Pricing is still good through June.
All you need to do at this point is to submit a profile online at WMSolutions.com, along with the full lab reports.
Our Waste Approval Manager will then formally approve for Direct Landfill.
Documents will be sent out for signature and once returned, we will be able to set up on our system so your client can start hauling.
Any questions, don't hesitate to reach out to either Zach Neumann, your inside technical service rep., or myself.
Have a great weekend!
Brian

Brian Smith
Industrial Account Manager
Manufacturing & Industrial- SE/South Central Wisconsin
bsmith45@wm.com
Cell 414-793-0232

Waste Management
Technical Service Center
W132 N10487 Grant Drive Germantown, WI 53022
TSC 800-963-4776
Fax 866-800-2591

Please visit us @www.wmsolutions.com

From: Langdon, Robert [mailto:RLangdon@scsengineers.com]
Sent: Thursday, February 8, 2018 12:53 PM
To: Smith, Brian <bsmith45@wm.com>
Cc: Vanderkin, Brad <bvander1@wm.com>; Neumann, Zachary <zneumann@wm.com>; Nelson, Debra <DNelson@scsengineers.com>
Subject: [EXTERNAL] RE: WM Pricing: SCS, University Ave Madison, Dry Cleaner Project

Brian, our excavation work for the dry cleaning project on University Ave is on track for this spring or early summer. I've attached our pricing from last August. Will these prices be good through June 2018? If not, please provide revised pricing. Would like this by Tuesday of next week. Also, please confirm that you do not need collect additional profile samples. I believe that's what we discussed, but want to make sure.

-Rob

Robert Langdon
Senior Hydrogeologist/Project Manager

SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718
608.224.2830
Direct: 608.216.7329 • Cell: 608.212.3995
www.scsengineers.com

From: Smith, Brian [mailto:bsmith45@wm.com]
Sent: Thursday, August 31, 2017 4:59 PM
To: Langdon, Robert
Cc: Vanderkin, Brad; Neumann, Zachary
Subject: WM Pricing: SCS, University Ave Madison, Dry Cleaner Project

Hi Rob. Please find attached our proposal for the University Avenue Project. If you have any questions, please let me know.
Regards,
Brian

Brian Smith
Industrial Account Manager
Manufacturing & Industrial- SE Wisconsin
bsmith45@wm.com
Cell 414-793-0232

Waste Management
Technical Service Center
W132 N10487 Grant Drive Germantown, WI 53022
TSC 800-963-4776
Fax 866-800-2591

Please visit us @www.wmsolutions.com

From: Vanderkin, Brad
Sent: Thursday, August 31, 2017 4:31 PM
To: Smith, Brian <bsmith45@wm.com>
Subject: FW: University Ave Madison

2018 Project.

From: Langdon, Robert [mailto:RLangdon@scsengineers.com]
Sent: Thursday, August 31, 2017 4:27 PM
To: Vanderkin, Brad <bvander1@wm.com>
Subject: [EXTERNAL] Re: University Ave Madison

We will likely be doing the work in spring 2018. We have to jump through some hoops yet and need to get a budget to DNR for approval as the work is funded through their dry cleaner fund. Would Waste provide a quote based on what info you have so far? If a profile is needed in order to provide a quote is there a charge for that?

Thanks,
Rob

Sent from my iPhone

On Aug 31, 2017, at 4:20 PM, Vanderkin, Brad <bvander1@wm.com> wrote:

> Rob –
>
> If that is the case, the VOC's look good and if we have no concerns for metals we could take at Madison Prairie with a waste profile and analytical report. Do you have an estimate start date on the project?
>
> Brian –
>
> Can you send over pricing for direct landfill at Madison Prairie.
>
> Thanks,
>
> **Brad Vanderkin**
> bvander1@wm.com
>
> **Waste Management**
> Tel (608) 215-7202
>
> http://www1.wmsolutions.com/facilities/

From: Langdon, Robert [mailto:RLangdon@scsengineers.com]
Sent: Thursday, August 31, 2017 4:13 PM
To: Vanderkin, Brad <bvander1@wm.com>
Cc: Nelson, Debra <DNelson@scsengineers.com>; Smith, Brian <bsmith45@wm.com>
Subject: [EXTERNAL] Re: University Ave Madison

Deb, let us know if you think we'd be excavating cinder/PAH type fill that's common to the Madison area. I don't recall seeing this on the soil logs, but it's been awhile since we visited this.

-Rob

Sent from my iPhone

On Aug 31, 2017, at 3:43 PM, Vanderkin, Brad <bvander1@wm.com> wrote:

> Rob –
>
> Just wondering if you are expecting to hit any of the normal Madison fill material? Or will this mostly be contaminated soil.
>
> Thanks,
>
> **Brad Vanderkin**
> bvander1@wm.com

Waste Management
Tel (608) 215-7202

http://www1.wmsolutions.com/facilities/

From: Langdon, Robert [mailto:RLangdon@scsengineers.com]
Sent: Thursday, August 31, 2017 2:54 PM
To: Vanderkin, Brad <bvander1@wm.com>
Cc: Nelson, Debra <DNelson@scsengineers.com>
Subject: [EXTERNAL] University Ave Madison

Hi Brad, we are planning a soil excavation for a former dry cleaning facility along University Ave in Madison. I've attached a summary of soil results. The highlighted results are for soil to be excavated, approximately 1,000 tons. We can provide laboratory analytical reports and full profile.

What, if any, additional information would Waste need for the profile evaluation?

Robert Langdon
Senior Hydrogeologist/Project Manager

SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718
608.224.2830
Direct: 608.216.7329 • Cell: 608.212.3995
www.scsengineers.com

<Blank_EZ_Profile.pdf>

ATTACHMENT B

Revised Soil Excavation Bid Package

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

SCS ENGINEERS

January 16, 2018
File No. 25211228.72

Mr. Dave Lofthouse
Reconex Inc.
714 ½ Oak St.
Wisconsin Dells, WI 53965-1533

Subject: Invitation to Bid
Soil Excavation and Hauling
2803-2809 University Avenue, Madison, Wisconsin

Dear Mr. Lofthouse:

You are invited to bid on the soil excavation and hauling at 2803-2809 University Avenue, Madison, Wisconsin. The work also includes, but is not limited to, building surveying and monitoring, pavement saw cutting and disposal, imported backfill, and pavement restoration.

This work must be completed by **June 1, 2018**. The work shall be completed within **56 days** of the Notice to Proceed.

Bidding documents for the project include this letter (Invitation to Bid), Instructions to Bidders, Bid Form, Specifications, and Drawings. Soil Boring Logs, Well Construction Forms, and Soil Analytical Results Summary are provided for informational purposes only. Any deviations from materials defined in the Specifications and Drawings requires approval from the Engineer. Any bidder not receiving approval for unspecified materials is subject to disqualification.

Bids will be received at the office of SCS Engineers, 2830 Dairy Drive, Madison, WI 53718-6751, until **3:00 p.m. on January 31, 2018**. Bids may be sent by email. Bid will be opened privately on January 31, 2018 at 4:00 p.m. SCS Engineers and the MOM Partnership reserve the right to reject any or all bids.

Sincerely,

Debra L. Nelson, PE
Senior Engineer
SCS ENGINEERS

Robert Langdon
Senior Project Manager
SCS ENGINEERS

DLN/lmh/MRH/REL

cc: Mr. Dennis O'Loughlin, MOM Partnership

Enclosure: Bid Package

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SCS ENGINEERS







Bid Package

Soil Excavation and Hauling
2803-2809 University Avenue
Madison, Wisconsin

Presented to:

MOM Partnership
3934 Partridge Road
DeForest, Wisconsin 53532
(608) 846-1851

Presented by:

SCS ENGINEERS
2830 Dairy Drive
Madison, Wisconsin 53718-6751
(608) 224-2830

January 2018
File No. 25211228.72

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II. BID FORM

III. SPECIFICATIONS

IV. DRAWINGS

V. SOIL BORING LOGS, WELL CONSTRUCTION FORMS, AND SOIL ANALYTICAL RESULTS SUMMARY

Instructions to Bidders

1. DEFINITIONS

Standard terms used throughout the Bidding Documents have the following meanings:

a. **Owner:** MOM Partnership

b. **Engineer:** SCS Engineers

c. **Contractor:** Contractor performing Work.

d. **Bidder:** Firm submitting Bid to perform the Work. The selected Bidder will become the Contractor when the Contract is fully executed.

e. **Drawings:** Soil Excavation and Hauling Drawings

f. **Specifications:** Soil Excavation and Hauling Specifications

g. **Work:** All labor, materials, and supplies required for a complete functional installation.

2. PREPARATION OF BID

a. Bids shall be submitted on the Bid Form provided as part of the Bid Package. All spaces on the Bid Form shall be filled in. The Bid Form shall be completely executed when submitted.

b. The Bidder may submit additional information that it believes will be useful in the Bid evaluation.

3. SUBMITTAL OF BIDS

Bids will be received at the time and place set forth in the Invitation to Bid.

4. EXAMINATION OF SITE AND CONTRACT DOCUMENTS

a. The Bidder shall thoroughly examine and be familiar with the Specifications and Drawings.

b. The Bidder shall visit the site of the proposed Work and become fully acquainted with conditions as they exist so that Bidder may fully understand the facilities, difficulties, and restrictions attending the execution of the Work under the Contract.

c. The failure or omission of any Bidder to receive or examine any form, instrument, or document or to visit the site and become acquainted with the conditions there existing shall in no way relieve the Bidder from any obligation with respect to its Bid.

5. INTERPRETATION OF DOCUMENTS

The Bidder shall notify the Engineer of any discrepancies, omissions, unclear or ambiguous language or other questions regarding the Bidding Documents. Such notification may initially be made via telephone, but must be confirmed in writing. If time allows, the Engineer will answer the question in the form of an Addendum to the Bidding Documents. The Addendum will be provided to all Bidders. If time does not allow for preparation of an Addendum, and if the Bidder considers the matter important as to have a bearing on its Bid, the Bidder shall stipulate it in a letter of clarification to be submitted along with its Bid.

6. WITHDRAWAL OR MODIFICATION OF BIDS

Bids may be withdrawn or modified by written request received prior to the date and time of Bid opening.

7. AWARD OF CONTRACT

The Contract will be awarded to the Bidder whose proposal is most advantageous to the Owner. The Owner reserves the right to award the Contract on any basis deemed to be in its best interest.

8. REJECTION OF BIDS

The Owner reserves the right to reject any and all Bids when such rejection is in the interest of the Owner. Any Bidder not receiving approval of the Engineer for variance from materials specified in the Bidding Documents is subject to disqualification.

Bid Form

To: SCS Engineers
Attention: Deb Nelson
2830 Dairy Drive
Madison, WI 53718-6751

From: _____
(Name of Bidder)

_____
(Address of Bidder)

For: **Soil Excavation and Hauling – 2803-2809 University Avenue, Madison, Wisconsin**

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner to perform all Work as specified in the Bidding Documents for the amount specified below:

Item	Unit	Quantity	Unit Price	Total
Mobilization	Lump Sum	1		
Private Utility Locate	Lump Sum	1		
Traffic Control	Lump Sum	1		
Building Surveying and Monitoring	Lump Sum	1		
Demolition: Asphalt Saw Cutting & Disposal	Lump Sum	1		
Soil Excavation	Tons	1000		
Soil Hauling to Landfill – W M Madison Prairie Landfill	Tons	1000		
Granular Backfill (including Breaker Rock/Coarse Stone and Bedding Material), Hauling, Placement, and Compaction	Tons	900		
Base Course, Hauling, Placement, and Compaction	Tons	100		
Pavement Restoration	Lump Sum	1		
Total Bid Price				

Total Bid Price (Written): _____

2. Final project cost will be based on actual quantities.

3. Should additional Work be required, adjustment will be made to the Contract Sum at the above unit prices, which shall include all expenses, including overhead and profit.

4. Bidder accepts all of the terms and conditions of the Bidding Documents. This Bid shall remain subject to acceptance for 30 days following the Bid opening. If selected for the project, the Bidder will sign and submit the Agreement within 5 days after receipt of the Notice of Award.

5. In submitting this Bid, Bidder represents that:

   (a) Bidder has examined copies of all the Bidding Documents and of the following Addenda (receipt of which is hereby acknowledged):

   Date: Number:
   Date: Number:

   (b) Bidder has reviewed the Specifications and Drawings with respect to state and local codes and other regulations, has identified any required changes to the Specifications and Drawings, and has included the cost of these revisions in the base Bid. Bidder has attached a written list to this Bid Form identifying the required changes.

Company Name of Bidder: _____

Bidder is (check one): Individual ( ) Partnership ( )
Corporation ( ) Limited Liability Company ( )

State of Incorporation or Registration: _____

_____
Signature and Date

_____
Name, Title

Solid Waste Transporter License Number: _____

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SCS ENGINEERS







Specifications

Soil Excavation and Hauling
2803-2809 University Avenue
Madison, Wisconsin

Presented to:

MOM Partnership
3934 Partridge Road
DeForest, Wisconsin 53532
(608) 846-1851

Presented by:

SCS ENGINEERS
2830 Dairy Drive
Madison, Wisconsin 53718-6751
(608) 224-2830

January 2018
File No. 25211228.72

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SECTION 01016 SAFETY REQUIREMENTS AND PROTECTION OF PROPERTY

DIVISION 2 - SITE WORK

SECTION 02015 DEMOLITION
SECTION 02200 EXCAVATING, BACKFILLING, AND COMPACTION

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SECTION 01010
SUMMARY OF WORK

PART 1 GENERAL

1.1 DESCRIPTION OF THE WORK

A. The Work shall consist of the following items:

1. Mobilization
2. Building monitoring and surveying
3. Private utility locate
4. Traffic control including parking lot stalls
5. Demolition consisting of asphalt pavement saw cutting, removal, and disposal
6. Soil excavation and hauling to landfill
7. Granular backfill, hauling, placement, and compaction
8. Base course, hauling, placement, and compaction
9. Asphalt paving and restriping to restore parking lot

1.2 GENERAL REQUIREMENTS

A. Perform Work in a manner which minimizes disruptions to the operation of the Site.

B. Perform Work in compliance with federal, state and local codes, zoning laws and other applicable regulations.

C. Work shall meet the requirements of Wisconsin Administrative Code (WAC) chapters NR 700 through NR 728 and insurance requirements of WAC chapter NR 169.

D. Obtain all necessary permits.

E. Contact and work with City of Madison to provide traffic control for city streets, including any permits, if required.

F. Contact and work with Owner to block off parking stalls required to access the Work.

G. Notify public utilities a reasonable time before starting the Work. Verify public utility markings prior to Work. Contractor is responsible for damage to public utilities or subterranean structures, including property damage or environmental damage resulting from damage to public utilities or subterranean structures and other incidental damage, if Contractor fails to obtain markings of public utility lines or subterranean structures, or if Contractor performs the Work in disregard of utility or structure markings, or if Contractor is otherwise negligent in performing the Work.

H. Locate and mark private utilities and subterranean structures in the areas of the Work. Contractor is responsible for damage to private utilities or subterranean structures, including property damage or environmental damage resulting from damage to public utilities or subterranean structures and other incidental damage, if Contractor fails to obtain markings of private utility lines or subterranean structures, or if Contractor performs the Work in disregard of utility or structure markings or if Contractor is otherwise negligent in performing the Work.

I. Utilities should not be removed or relocated unless indicated or specified in the Contract Documents. Inactive or abandoned utilities encountered during Work shall be removed, plugged, or capped as directed by the affected utility company.

1.3 WARRANTY OF CONSTRUCTION

A. In addition to other warranties in this Contract, Contractor warrants that Work is free of any defects for a period of 1 year.

B. The warranty shall take effect upon Owner's written notice of acceptance of the completed Work.

C. Contractor shall remedy, at Contractor's expense, any defect in Work within 2 weeks of written notice of defect.

D. Defect repairs shall be made to the requirements of the Specifications.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

PART 4 MEASUREMENT AND PAYMENT

4.1 Only items listed below will be measured for payment. All other costs shall be included in the unit or lump sum prices indicated on the Bid Form.

4.2 Mobilization will be paid for at the lump sum prices indicated on the Bid Form.

4.3 Private Utility Locate will be paid for at the lump sum prices indicated on the Bid Form.

4.4 Traffic Control including parking lot stalls will be paid for at the lump sum prices indicated on the Bid Form.

END OF SECTION

SECTION 01016
SAFETY REQUIREMENTS AND PROTECTION OF PROPERTY

PART 1 GENERAL

1.1 HEALTH AND SAFETY CONSIDERATIONS

A. The site soil and groundwater have known contamination from dry cleaning operations. There may be potential threats to worker health associated with dry cleaning products.

B. Contractor is solely and completely responsible for health and safety. This requirement applies continuously for the duration of the Contract. The Owner, Engineer, and their representatives are not responsible for safety.

C. Employ a person who is qualified and experienced in construction safety, whose prime responsibility will be accident prevention during construction. Such person(s) shall be at the work site and be authorized to supervise and enforce compliance with the Health and Safety Plan.

D. Provide all equipment required to implement the Health and Safety Plan.

1.2 HEALTH AND SAFETY PLAN

A. Develop and implement in accordance with the Agreement, OSHA regulations, 29 CFR 1910, 29 CFR 1926, and any other applicable federal, state or local regulations. At a minimum, the plan shall address the items listed below as well as any additional items required by site-specific project conditions and/or local, state, and federal regulations.

1. Key Personnel and on-site Competent Person.
2. Comprehensive workplan.
3. Hazard analysis for each site task.
4. Employee training.
5. Personal protective equipment.
6. Medical surveillance.
7. Frequency and types of air monitoring, personnel monitoring and environmental sampling techniques and instrumentation to be used.
8. Site control measures.
9. Decontamination procedures.
10. Emergency response plan.
11. Spill containment program.

1.3 EXCAVATION SAFETY

A. Maintain a temporary barrier (i.e., orange plastic fencing) around excavation at all times while open to restrict access. Post warning lights.

1.4 ACCIDENT REPORTS

A. If serious injury or damage occurs, the accident shall be reported immediately by telephone or messenger to the Engineer and to appropriate local authorities. In addition, the Contractor must promptly report in writing to the Engineer all accidents occurring in connection with the Work, giving full details, names, and statements of witnesses.

B. If a claim is made by anyone against the Contractor or any Subcontractor resulting from an accident, the Contractor shall promptly report the facts in writing to the Engineer and Owner, giving full details of the claim, including investigation and restitution.

C. In addition, a summary report shall be made to the Engineer with each Payment Application which shall indicate the date, time, name of the injured, details of the accident and current status.

1.5 COMPLAINTS

A. All complaints received by the Contractor shall be reported to the Engineer and Owner no later than the working day following receipt thereof. Such reports shall include the name, address, date, time received, date and time of action complained about, and a brief description of the alleged damages or other circumstances upon which the complaint is predicated. Each complaint shall be assigned a separate number, and all complaints shall be numbered consecutively in order of receipt. In the event that more than one complaint is received from the same complainant, each latter complaint shall show all previous complaint numbers registered by the same complainant.

B. In addition, a summary report shall be made to the Engineer with each Payment Application which shall indicate the date, time, and name of the person investigating the complaint and the amount of damages claimed (or estimate thereof), including the amount of settlement, if any.

C. When settlement of a claim is made, the Engineer and Owner shall be furnished with a copy of the release of claim by the claimant. The Engineer shall be notified immediately, throughout the statutory period of liability, of any formal claims or demands made by attorneys on behalf of claimants; of the serving of notice, summons, subpoena, or other legal documents incidental to litigation; and for any out-of-court settlement or court verdicts resulting from litigation.

1.6 FIRE PREVENTION AND PROTECTION

A. Execute all Work in a fire-safe manner. Supply and maintain on the site adequate fire-fighting equipment capable of extinguishing incipient fires. Comply with applicable fire-prevention laws. Where these laws do not apply, applicable parts of the National Fire Prevention Standard for Safeguarding Building Construction Operations (NFPA No. 241) shall be followed.

1.7 SECURITY

A. If the Contractor deems it necessary to employ watchmen to safeguard the Work, equipment, or the public, employ only licensed and uniformed watchmen, physically capable of adequately patrolling the entire work area.

1.8 PROTECTION OF PROPERTY

A. Employ such means and methods as necessary to adequately protect all property against damage. In the event of damage to such property, immediately restore the property to a condition at least equal to its original condition and to the satisfaction of the Owner, at Contractor’s expense.

1.9 SITE RESTORATION AND CLEANUP

A. At all times during the Work, keep the premises clean and orderly; and upon completion of the Work, repair all damage caused by equipment and leave the project free of rubbish or excess materials of any kind.

B. Stockpile excavated materials in a manner that will cause the least damage to adjacent lawns, grassed areas, shrubbery, or fences; remove all excavated materials from grassed and planted areas and leave these surfaces in a condition equivalent to their original condition.

PART 2 PRODUCTS

Not Applicable.

PART 3 EXECUTION

Not Applicable.

PART 4 MEASUREMENT AND PAYMENT

A. Work covered by this Section is incidental to the project or as identified in other Sections.

END OF SECTION

SECTION 02015
DEMOLITION

PART 1 GENERAL

1.1 DESCRIPTION

Work under this Section includes all labor, equipment and materials necessary to properly demolish and dispose of existing pavement.

PART 2 PRODUCTS

Not Applicable.

PART 3 EXECUTION

3.1 DEMOLITION

A. Provide all labor, equipment and materials necessary to perform demolition of existing pavement.

B. Perform all demolition in accordance with OSHA requirements.

C. Saw cut existing pavement to facilitate demolition as necessary.

D. Seal, cap or abandon any out of service utilities.

E. Protect structures, monitoring wells, and utilities to remain in service.

F. Backfill all areas excavated during demolition as specified in Section 02200.

G. Dispose all material generated during demolition and existing debris off site.

PART 4 MEASUREMENT AND PAYMENT

4.1 All costs shall be included in the lump sum price indicated on the Bid Form.

END OF SECTION

SECTION 02200
EXCAVATING, BACKFILLING, AND COMPACTION

PART 1 GENERAL

1.1 DESCRIPTION

A. Section includes building monitoring, excavating, backfilling, compacting, grading, and restoration for soil excavation and hauling.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM D 1557 – Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft^3 (2,700 kN-m/m^3)).
2. ASTM D 6938 - Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depths).

B. State of Wisconsin Department of Transportation (WisDOT):

1. Standard Specifications for Highway and Structure Construction, latest edition.

1.3 QUALITY ASSURANCE

A. Owner will pay for and provide field and laboratory testing for imported backfill material.

1.4 SUBMITTALS

A. Submit one sample of each imported backfill material 2 weeks prior to backfilling activities.

PART 2 PRODUCTS

2.1 IMPORTED BACKFILL MATERIAL

A. Granular Backfill:

1. Soil that consists primarily of sand or sand and gravel size particles, and is free of vegetation, ash, wood, organics, debris, and frozen material, with no rock or stones larger than 3 inches in the largest dimension.

B. Bedding Material:

1. Shall be durable material, free of organic matter conforming to the following gradation requirements:

Sieve Size	**Percent by Weight Passing**
3/8 inch	100
No. 100	2-10

C. Base Course:

1. Conform to WisDOT 1 1/4-inch dense graded base consisting of crushed aggregate.

D. Breaker Rock/Coarse Stone:

1. One and one-half to 3-inch nominal diameter gravel or aggregate with no more than 12 percent by weight passing the No. 200 standard sieve.

2.2 ASPHALT PAVING

A. Binder and surface courses: conform to WisDOT Type LT.

PART 3 EXECUTION

3.1 INSPECTION

A. Examine the areas and conditions where Work will be performed and notify the Engineer in writing of conditions detrimental to the proper and timely completion of the Work. Do not proceed with the Work until unsatisfactory conditions have been corrected.

3.2 BUILDING SURVEYING AND MONITORING

A. Building Condition Assessment:

1. Perform a minimum of three building condition assessments in the presence of Engineer with one assessment prior to the start of Work, another during excavation, and a third after backfilling is complete.
2. Obtain a video of building condition during each assessment and provide a copy of each video to Engineer.

B. Crack Monitoring:

1. Install up to 12 crack gauges/monitors on interior of building basement walls at locations approved by Engineer prior to the start of excavation.
2. Provide crack gauges/monitors manufactured by Avongard, Humboldt Manufacturing Co., or other manufacturer approved by Engineer.
3. Read crack gauges/monitors at least twice daily during excavation and backfilling in presence of Engineer.
4. Record crack monitoring results and provide a copy of results to Engineer on a daily basis.

C. Survey Monitoring:

1. Install 12 survey mini prisms on exterior building walls above the limits of excavation with 6 prisms installed on each of the two walls. Install prisms at a spacing of 4 to 5 feet on center at locations approved by Engineer.
2. Provide and install mini prism angle targets from Berntsen International Inc. or other source approved by Engineer.
3. Set four survey control points at locations approved by Engineer. Control points will be used to obtain potential lateral and vertical movement readings for building exterior walls. Locate local control points a minimum of 25 feet from excavation.
4. Obtain prism survey readings prior to the start of excavation and obtain prism survey readings at least twice daily during excavation and backfilling work. Record survey results to the nearest 0.001 foot.

5. Take action as necessary to protect prisms and control points.
6. Provide a copy of survey readings to Engineer on a daily basis.

3.3 EXCAVATING

A. General:

1. Excavate to the limits and depths shown on the Drawings.
2. Do not undermine existing utilities such as pipes. As necessary, locate existing underground utilities by careful hand excavation.
3. If unknown utilities are encountered during excavation, promptly notify Engineer and wait for instructions before proceeding. Repair at own expense all damage to unknown utilities encountered when Work is continued without contacting Engineer for direction.
4. Protect structures, utilities, sidewalks, pavements, and other facilities immediately adjacent to excavation, from damage due to settlement, lateral movement, undermining, and other hazards. Provide shoring of utilities in areas of excavation as necessary to maintain use at all times.
5. Take precautions and provide necessary bracing and shoring to guard against movement or settlement of existing improvements. Contractor is entirely responsible for strength and adequacy of bracing and shoring, and for safety and support of existing improvements, from damage caused by the lack thereof, or by movement or settlement.
6. Final excavation limits will be confirmed in the field by the Engineer.
7. Removal of materials beyond the limits and depths shown on the Drawings without authorization of Engineer shall be at the Contractor's expense, including backfill and compaction.

B. Soil Hauling:

1. Haul excavated soil to the designated disposal facility.
2. Engineer will arrange for disposal facility approval.
3. Owner will pay for disposal fees.
4. Measurement of soil hauled will be based on disposal facility scale readings.
5. Use only trucks with Solid Waste Transporters Licenses.

C. Saw Cutting:

1. Saw cut and strip away asphalt surfaces prior to excavating.
2. Re-saw cut damaged asphalt prior to placing base course as directed by the Engineer.

D. Subgrade Stabilization:

1. Mechanically compact soils at base of excavation prior to backfilling.
2. Excavate or stabilize soft or loose soils, if any, as directed by Engineer.
3. Stabilize a soft or wet subgrade by spreading a 6- to 12-inch-thick layer of coarse stone/breaker rock and compacting stone/rock into subgrade until firm, as directed by Engineer.
4. Re-establish subgrade elevation with compacted granular backfill.

E. Do not backfill excavation until an inspection has been made and backfilling authorized by the Engineer.

F. Perform all Work in accordance with OSHA requirements.

3.4 BACKFILLING

A. General:

1. Clear excavation of trash and debris before backfilling.
2. Backfill excavation to pre-construction grades unless indicated otherwise.
3. Carefully place backfill material to protect underground structures and utilities. Place bedding material around existing pipes if pipes are exposed during excavation.
4. Do not backfill with frozen material.
5. If backfill settles below the adjacent ground surface, prior to 1 year following completion of Work, Contractor shall refill settled area and mechanically compact the surface. If backfill settlement damages structures, pavement, landscaping or buried utilities, Contractor shall repair damaged facilities to the satisfaction of the Owner.

B. Backfill in Paved Areas:

1. Backfill excavation in paved areas with granular backfill in maximum 12-inch-thick lifts. Mechanically compact to at least 90 percent of modified Proctor maximum dry density at depths more than 3 feet below pavement and to at least 95 percent of modified Proctor maximum dry density at depths less than 3 feet below pavement, as defined by ASTM D 1557.

C. Base Course:

1. Mechanically compact to at least 95 percent of modified Proctor maximum dry density as defined by ASTM D 1557.

D. Testing:

1. Engineer may perform field density testing once per 400 square feet and once per lift of backfill.

3.5 GRADING

A. Uniformly grade areas within limits of backfilled excavation, including adjacent transition areas.

3.6 ASPHALT PAVING

A. Place and compact asphalt in accordance with the WisDOT Standard Specifications.

B. Restripe parking stalls to match existing.

PART 4 MEASUREMENT AND PAYMENT

4.1 Only items listed below will be measured for payment. All other costs shall be included in the unit or lump sum prices indicated on the Bid Form.

4.2 Building Surveying and Monitoring will be paid for at the lump sum prices indicated on the Bid Form.

4.3 SOIL EXCAVATION

A. Measurement: Soil excavation will be measured based on the weight of excavated soil measured at the disposal facility scale. Submit truck weight tickets indicating soil weight for each load.

B. Payment: Payment will be made at the unit rate indicated on the Bid Form.

4.4 SOIL HAULING TO LANDFILL

A. Measurement: Hauling of excavated impacted soil will be measured based on the weight of soil measured at the disposal facility scale. Submit truck weight tickets indicating soil weight for each load.

B. Payment: Payment will be made at the unit rate indicated on the Bid Form.

4.5 BASE COURSE

A. Measurement: Base course will be measured based on the weight of base course measured by the quarry scale or other scale. Submit truck weight tickets indicating base course weight for each load.

B. Payment: Payment will be made at the unit rate indicated on the Bid Form.

4.6 GRANULAR BACKFILL

A. Measurement: Granular backfill including breaker rock/coarse stone and bedding material will be measured based on the weight of backfill measured by the quarry scale or other scale. Submit truck weight tickets indicating backfill weight for each load.

B. Payment: Payment will be made at the unit rates indicated on the Bid Form.

4.7 Pavement Restoration will be paid for at the lump sum prices indicated on the Bid Form.

END OF SECTION

SCS ENGINEERS







Drawings

Soil Excavation and Hauling
2803-2809 University Avenue
Madison, Wisconsin

Presented to:

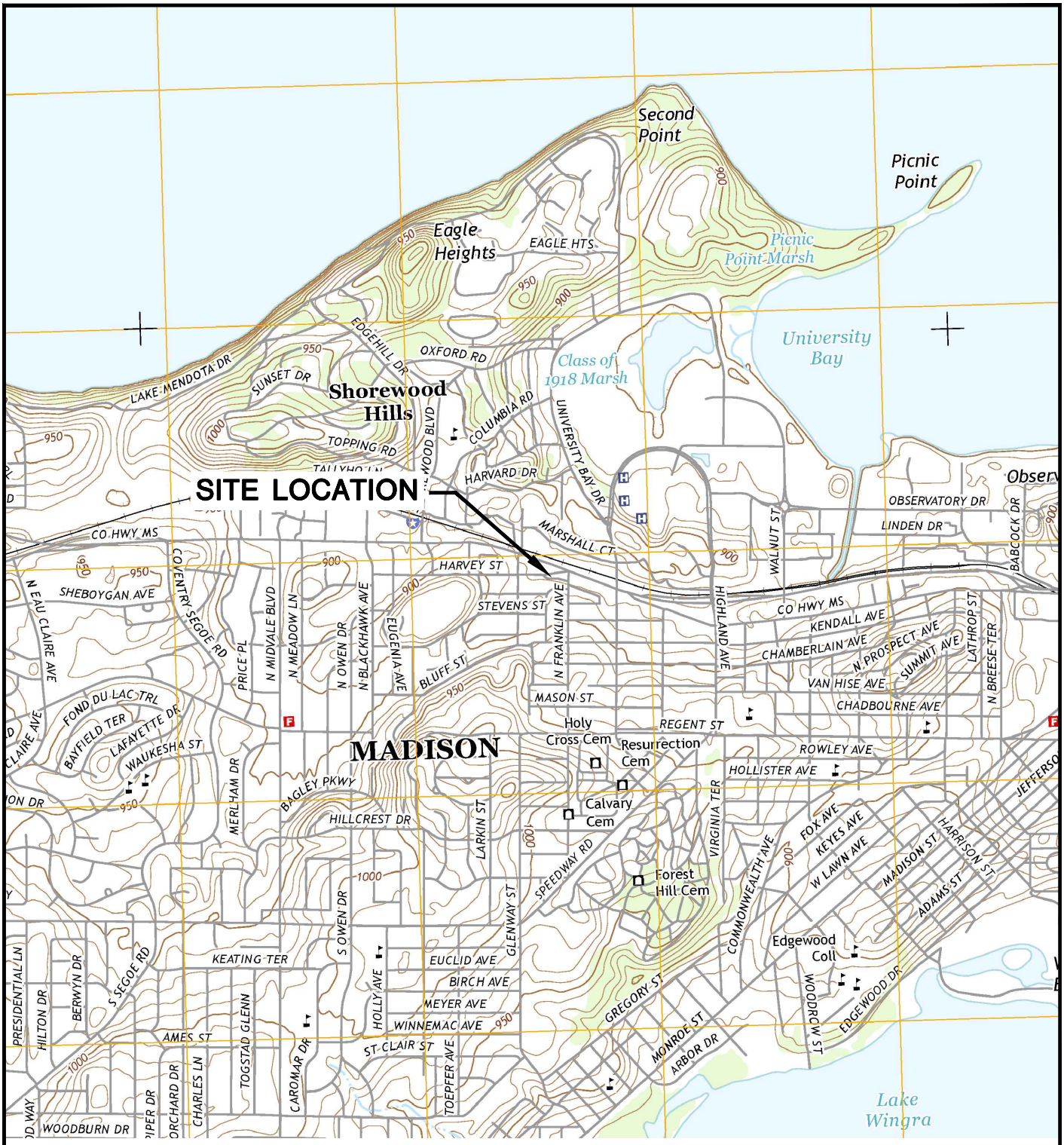
MOM Partnership
3934 Partridge Road
DeForest, Wisconsin 53532
(608) 846-1851

Presented by:

SCS ENGINEERS
2830 Dairy Drive
Madison, Wisconsin 53718-6751
(608) 224-2830

January 2018
File No. 25211228.72

Offices Nationwide
www.scsengineers.com



N

MADISON–WEST QUADRANGLE
WISCONSIN–DANE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
2015
SCALE: 1" = 2,000'

CLIENT	MOM PARTNERSHIP 3934 PARTRIDGE ROAD DEFOREST, WI 53532	SITE	2803–2809 UNIVERSITY AVENUE MADISON, WISCONSIN

SITE LOCATION MAP

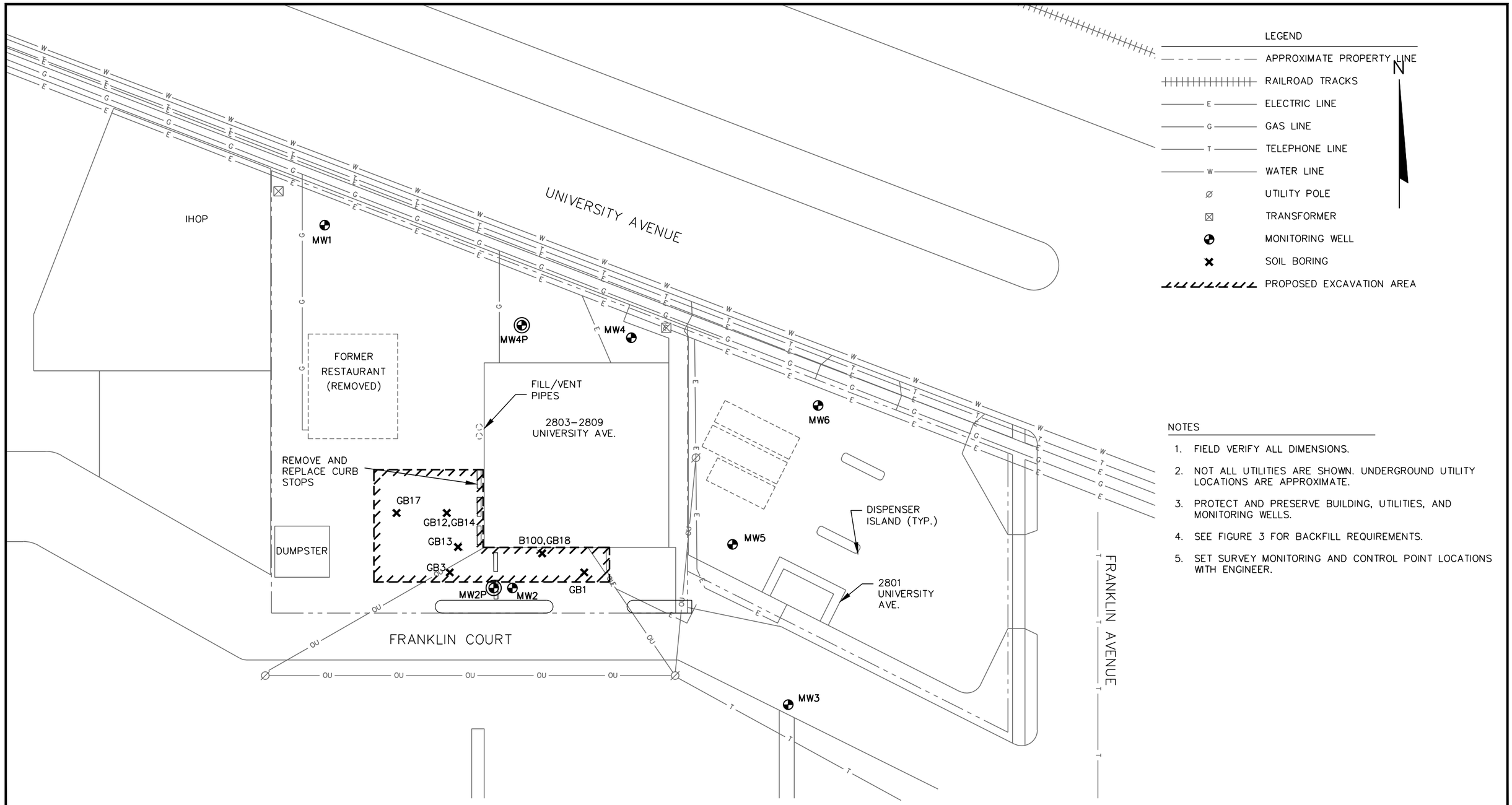
PROJECT NO.	25211228.72	DRAWN BY:	BJM
DRAWN:	09/28/17	CHECKED BY:	DN
REVISED:	12/14/17	APPROVED BY:	

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718–6751
PHONE: (608) 224–2830

FIGURE 1

I:\25211228.72\Drawings\1_Site Location Map.dwg, 12/14/2017 4:01:07 PM



NOTES

1. FIELD VERIFY ALL DIMENSIONS.
2. NOT ALL UTILITIES ARE SHOWN. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE.
3. PROTECT AND PRESERVE BUILDING, UTILITIES, AND MONITORING WELLS.
4. SEE FIGURE 3 FOR BACKFILL REQUIREMENTS.
5. SET SURVEY MONITORING AND CONTROL POINT LOCATIONS WITH ENGINEER.

30 0 30

SCALE: 1" = 30'

PROJECT NO.	25211228.72	DRAWN BY:	BJM
DRAWN:	09/28/17	CHECKED BY:	DN
REVISED:	09/28/17	APPROVED BY:	

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: MOM PARTNERSHIP
3934 PARTRIDGE ROAD
DEFOREST, WI 53532

SITE: 2803–2809 UNIVERSITY AVENUE
MADISON, WISCONSIN

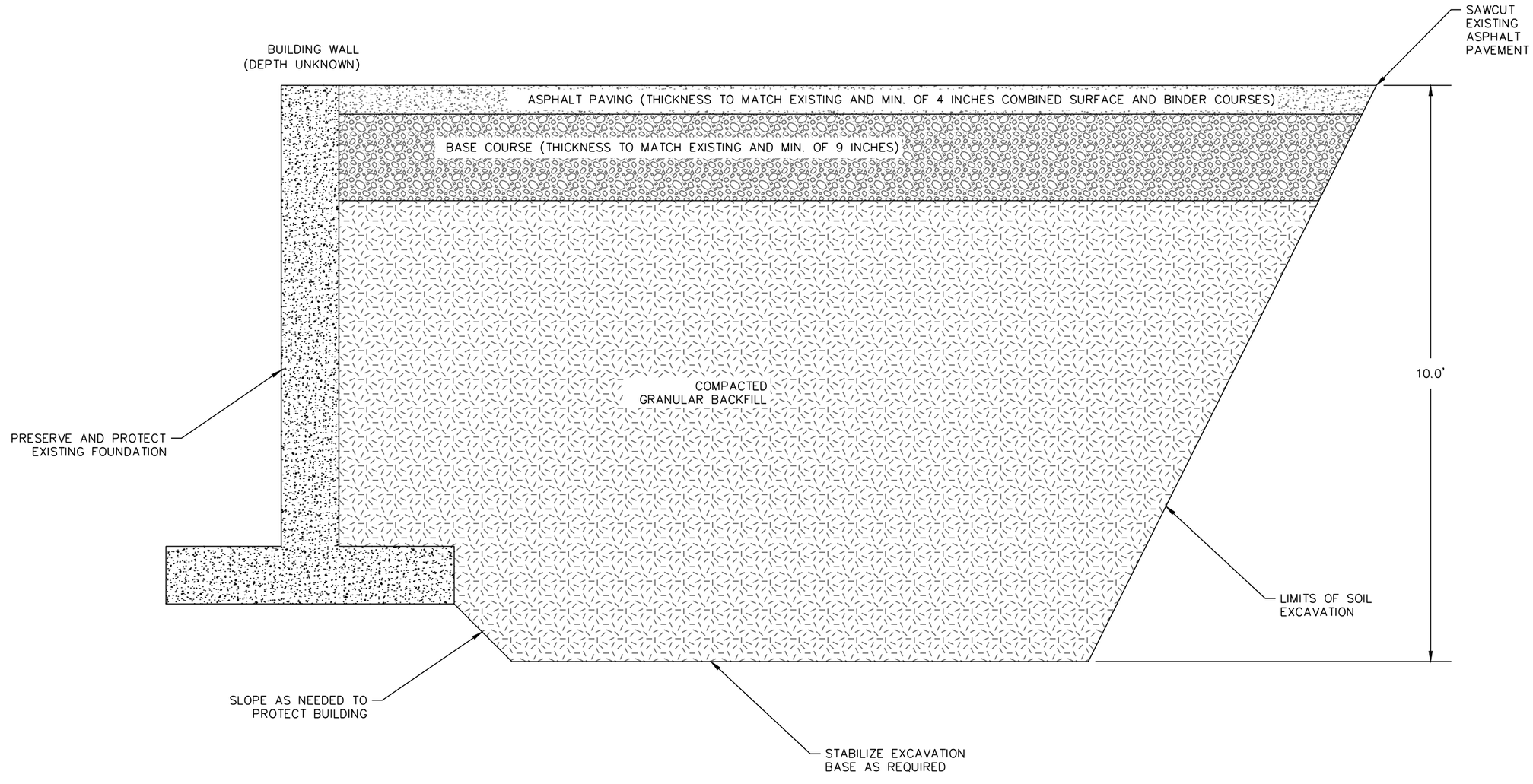
EXCAVATION PLAN

FIGURE 2

I:\25211228.72\Drawings\2_Excavation Plan.dwg, 12/15/2017 9:15:59 AM

NOTES

1. DEPTH TO WATER TABLE IS APPROXIMATELY 25 FEET BASED ON NEARBY MONITORING WELL WATER LEVELS.
2. PLACE BEDDING MATERIAL ADJACENT TO ANY EXPOSED UTILITIES.



NOT TO SCALE

PROJECT NO.	25211228.72	DRAWN BY:	BJM
DRAWN:	09/28/17	CHECKED BY:	DN
REVISED:	12/14/17	APPROVED BY:	

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: MOM PARTNERSHIP
3934 PARTRIDGE ROAD
DEFOREST, WI 53532

SITE: 2803-2809 UNIVERSITY AVENUE
MADISON, WISCONSIN

EXCAVATION CROSS SECTION

FIGURE
3

I:\25211228.72\Drawings\3_Excavation Cross Section.dwg, 12/14/2017 4:32:53 PM

SCS ENGINEERS







Soil Boring Logs, Well Construction Forms, and Soil Analytical Results Summary

Soil Excavation and Hauling
2803-2809 University Avenue
Madison, Wisconsin

Presented to:

MOM Partnership
3934 Partridge Road
DeForest, Wisconsin 53532
(608) 846-1851

Presented by:

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2830 Dairy Drive
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January 2018
File No. 25211228.72

Offices Nationwide
www.scsengineers.com

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Budget Signs Commercial Building		**B100**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Kitson Environmental Services, Inc. **Greg Kitson**	03 / 18 / 02 MM DD YY	03 / 18 / 02 MM DD YY	**GeoProbe**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
___	___ ___ ___ ___ ___		____ Feet MSL	____ Feet MSL	1.50 inches

Boring Location
State Plane _____ N. _____ E S
NE 1/4 of NW 1/4 of Section 21, T 7 N. R 9 W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☒ E
2 Feet ☒ S 18 Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Dane	**13**	**Madison**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
B101	20		1.0	0.0 to 2.0 **SILTY SAND (SM) wel graded some gravel, some clay, brown (10YR 5/3), moist, loose. (Fill)**	SM			1	0.0					
B102	22		2.0 3.0	2.0 to 10.0 **SILTY CLAY (ML-CL), some sand, some gravel, low to medium plasticity, no dilatancy, dark brown (10YR 3/3), moist, firm. (Fill)**	ML-CL			1	1.0					
B103	16		4.0 5.0					3	1.3					
B104	12		6.0 7.0					6	1.5					
B105	16		8.0 9.0					3	1.4					
B106	24		10.0 11.0 12.0	10.0 to 24.0 **SILTY SAND (SM), well graded, some subangular to subrounded gravel, trace clay, yellowish brown (10YR 4/3), wet at 22 feet, very fine silty seams throughout,**	SM			6	0.0					

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

Signature _____ Firm **Northern Environmental Technologies, Inc.**
1214 West Venture Court, Mequon, WI 53092 (414) 241-3133

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

MCG2434

State of Wisconsin
Department of Natural Resources
Boring Number **B100**

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92
Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
B107	20		13.0	**loose. (Fluvial deposits of the Horicon Formation)**				6	0.0					
B108	20		14.0					11	0.0					
			15.0											
B109	24		16.0					4	0.0					
			17.0											
B110	24		18.0					3	0.0					
			19.0											
B111	24		20.0					2	0.0					
			21.0											
B112	24		22.0					4	0.0					
			23.0											
			24.0	**End of borehole @ 24 feet.**										
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Budget Signs Commercial Building
MCG2434

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☒ Other DERF

SOIL BORING LOG INFORMATION
Form 4400-122 10-92

Facility/Project Name: 2803-2809 University Avenue BT²# 2287	License/Permit/Monitoring Number		Boring Number: GB1
Boring Drilled By (Firm name and name of crew chief): Soil Essentials Cory Johnson	Drilling Started: 08/30/2002	Drilling Completed: 08/30/2002	Drilling Method: Geoprobe
DNR Facility Well No. / WI Unique Well No. / Common Well Name	Static Water Level: Feet	Surface Elevation: Feet	Borehole Diam.: 2 Inches
Boring Location: State Plane N, E; NE 1/4 of NW 1/4 of Section 21, T. 7 N., R. 9 E.	Lat. / Long.	Local Grid Location (If applicable): Feet N., Feet E.	
County: Dane	DNR County Code: 13	Civil Town/City/or Village: Madison	

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1	14		0	2" ASPHALT PAVEMENT/SILTY GRAVEL (fill).	GM			20.3		M		no odors
				SILTY CLAY, gray.								
S2					CL-ML			8.7		M		no odors
S3	48		5	ORGANIC SILT, dark brown; slightly plastic.	OL			5.2		M		no odors
S4								12.2		W		no odors
				SILTY CLAY, black.								
S5	20		10		CL-ML			4.0		W		no odors
S6				Sandy LEAN CLAY with gravel; dark gray.	CL			1.7		M		no odors
				End of boring @ 12'; abandoned with bentonite.								
			15									
			20									
			25									

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

Signature: [signature] Firm: BT², Inc. Geoff Prior

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this form is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06 Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☒ Other DERF

SOIL BORING LOG INFORMATION
Form 4400-122 10-92

Facility/Project Name: 2803-2809 University Avenue BT²# 2287		License/Permit/Monitoring Number	Boring Number: GB2
Boring Drilled By (Firm name and name of crew chief): Soil Essentials — Cory Johnson	Drilling Started: 08/30/2002	Drilling Completed: 08/30/2002	Drilling Method: Geoprobe
DNR Facility Well No. / WI Unique Well No. / Common Well Name	Static Water Level: Feet	Surface Elevation: Feet	Borehole Diam.: 2 Inches
Boring Location: State Plane N, E — NE 1/4 of NW 1/4 of Section 21, T. 7 N., R. 9 E.	Lat. / Long.	Local Grid Location (If applicable): Feet N., Feet E.	
County: Dane	DNR County Code: 13	Civil Town/City/or Village: Madison	

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. (PID/FID)	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1	48			3" ASPHALT PAVEMENT/SILTY GRAVEL (fill).	GM			18.0	.	M		no odors
S2				SILTY CLAY, dark gray.	CL-ML			23.8	1.0	M		no odors
S3	48		5	SILTY CLAY, brown, mottled.	CL-ML			7.5	2.5	M		no odors
S4				SILTY SAND, fine to medium, with gravel; brown.	SM			5.2	2.5	M		no odors
S5	42		10	SAND, fine to medium, brown.	SP			6.3		M		no odors
S6								6.3		M		no odors
				End of boring @ 12'; abandoned with bentonite.								
			15									
			20									
			25									

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

Signature: [signature] Firm: BT², Inc. Geoff Prior

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☒ Other DERF

SOIL BORING LOG INFORMATION
Form 4400-122 10-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
2803-2809 University Avenue BT²# 2287		GB3

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
Soil Essentials Cory Johnson	08/30/2002	08/30/2002	Geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
			Feet	Feet	2 Inches

Boring Location	Lat. / Long.	Local Grid Location (If applicable)
State Plane N, E NE 1/4 of NW 1/4 of Section 21, T. 7 N., R. 9 E.		Feet N., Feet E.

County	DNR County Code	Civil Town/City/or Village
Dane	13	Madison

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1	36		0	3" ASPHALT PAVEMENT/SILTY GRAVEL (fill).	GM			22.6	.	M		no odors
				SILTY CLAY, dark brown.								
S2								8.7	1.0	M		no odors
S3	44		5		CL-ML			9.8	2.0	M		no odors
S4				SILTY GRAVEL with sand; brown.				5.2		M		no odors
S5	28				GM			7.5		M		no odors
S6			10	SAND, fine to medium, with silt; brown.	SP-SM			6.3		M		no odors
				End of boring @ 12'; abandoned with bentonite.								
			15									
			20									
			25									

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

Signature	Firm	
	BT², Inc.	Geoff Prior

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☒ Other DERF

SOIL BORING LOG INFORMATION
Form 4400-122 10-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
2803-2809 University Avenue BT²# 2287		GB12

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
Soil Essentials Dave Paulson	05/28/2003	05/28/2003	Geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
			Feet	Feet	2 Inches

Boring Location	Lat. / Long.	Local Grid Location (If applicable)
State Plane N, E NE 1/4 of NW 1/4 of Section 21, T. 7 N., R. 9 E.		Feet N., Feet E.

County	DNR County Code	Civil Town/City/or Village
Dane	13	Madison

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Max. PID/FID	Standard Penetration	Moisture Content	P200	RQD/ Comments
S1	24		0	2" ASPHALT PAVEMENT/SILTY GRAVEL (fill).	GM			0.0		M		no odors
S2				SILTY CLAY, varigated, with sand and gravel; structureless (fill).	CL-ML			0.0		M		no odors
S3	44		5	ORGANIC SILT, dark brown.	OL			0.0		M		no odors
S4								0.0		M		no odors
S5	40		10					0.0		W/ M		no odors
S6				SAND, brown, fine to medium, with silt.	SP-SM			0.0		M		no odors
S7	15							0.0		M		no odors
S8			15					0.0		M		no odors
S9	41							0.0		M		no odors
S10			20					0.0		M/ W		no odors
S11	40							0.0		M		no odors
S12								0.0		W		no odors
			25	End of boring @ 24'; abandoned with bentonite.								
			30									

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

Signature [signature] Firm BT², Inc. Geoff Prior

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Watershed/Wastewater
- ☒ Remediation/Redev.
- ☐ Waste Management
- ☒ Other Remed. & Redevel.

SOIL BORING LOG INFORMATION
Form 4400-122 7-98 bt2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
2803-2809 University Avenue BT²# 2287		GB13

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
Soil Essentials Dave Paulson	06/26/2007	06/26/2007	Direct Push

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
			Feet	Feet	2.5 Inches

Boring Location	Lat. / Long.	Local Grid Location (If applicable)
State Plane N, E NE 1/4 of NW 1/4 of Section 21, T. 7 N., R. 9 E.		Feet N., Feet E.

County	DNR County Code	Civil Town/City/or Village
Dane	13	Madison

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
				ASPHALT PAVEMENT and CRUSHED LIMESTONE.	FILL			3.5				
S1	40			LEAN CLAY, dark brown; some gravel.	CL			2.8				
			5	LEAN CLAY, dark brown.	CL			9.0				
S2	39			LEAN CLAY, light brown.	CL			4.0				
				End of boring @ 8'; abandoned with bentonite.								
			10									
			15									
			20									
			25									

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

Signature Terry L. March Firm BT², Inc. Terry March

This form is authorized by Chapters 281,283,289,291,292,295,and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture between $10 and $25,000, or imprisonment for up to one year, depending on 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.

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Watershed/Wastewater
- ☒ Remediation/Redev.
- ☐ Waste Management
- ☒ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 7-98 bt2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
2803-2809 University Avenue BT²# 2287		GB14

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
Soil Essentials Dave Paulson	06/26/2007	06/26/2007	Direct Push

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
			Feet	Feet	2.5 Inches

Boring Location	Lat. / Long.	Local Grid Location (If applicable)
State Plane N, E NE 1/4 of NW 1/4 of Section 21, T. 7 N., R. 9 E.		Feet N., Feet E.

County	DNR County Code	Civil Town/City/or Village
Dane	13	Madison

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1	43		0	ASPHALT PAVEMENT and CRUSHED LIMESTONE.	FILL			0.0				
				LEAN CLAY, brown and dark brown.	CL			2.8				
S2	46		5	LEAN CLAY, brown.	CL			7.0				
				LEAN CLAY, black.	CL			7.7				
				End of boring @ 8'; abandoned with bentonite.								
			10									
			15									
			20									
			25									

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

Signature Terry L. March Firm BT², Inc. Terry March

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Watershed/Wastewater
- ☒ Remediation/Redev.
- ☐ Waste Management
- ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 7-98 bt2

Facility/Project Name: 2803-2809 University Avenue BT²# 2287	License/Permit/Monitoring Number		Boring Number: GB17
Boring Drilled By (Firm name and name of crew chief): Soil Essentials Dave Paulson	Drilling Started: 06/26/2007	Drilling Completed: 06/26/2007	Drilling Method: Direct Push
DNR Facility Well No. / WI Unique Well No. / Common Well Name	Static Water Level: Feet	Surface Elevation: Feet	Borehole Diam.: 2.5 Inches
Boring Location: State Plane N, E; NE 1/4 of NW 1/4 of Section 21, T. 7 N., R. 9 E.	Lat. / Long.	Local Grid Location (If applicable): Feet N., Feet E.	
County: Dane	DNR County Code: 13	Civil Town/City/or Village: Madison	

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
				ASPHALT PAVEMENT and CRUSHED LIMESTONE.	FILL			4.2				
S1	46			LEAN CLAY, brown and dark brown; some gravel.	CL			0.0				
			5	LEAN CLAY, dark gray and black.	CL			5.6				
S2	45			LEAN CLAY, mottled brown and light gray.	CL			0.0				
				End of boring @ 8'; abandoned with bentonite.								
			10									
			15									
			20									
			25									

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

Signature: Terry L. March Firm: BT², Inc. Terry March

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☒ Other DERF

SOIL BORING LOG INFORMATION
Form 4400-122 10-92

Facility/Project Name	BT²#	License/Permit/Monitoring Number	Boring Number
2803-2809 University Avenue	2287		MW2

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
Boart Longyear Mike Mueller	09/03/2002	09/04/2002	4¼" HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
	PG542		Feet	Feet	8.5 Inches

Boring Location	Lat. / Long.	Local Grid Location (If applicable)
State Plane N, E NE 1/4 of NW 1/4 of Section 21, T. 7 N., R. 9 E.		Feet N., Feet E.

County	DNR County Code	Civil Town/City/or Village
Dane	13	Madison

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID (FID)	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
				ASPHALT PAVEMENT. Blind drilled 0-12'; See log of boring GB2;	GM							
					CL-ML							
			5		CL-ML							
					SM							
			10		SP							
				SAND, fine, with silt; medium dense, brown; thin (1"-2" horizontal silt seams.								
S1	4	04-05 05-06			SP-SM			2.3		M		no odors
S2	18	05-06 06-07	15					2.3		M		no odors
S3	20	05-04 04-05						2.3		M		no odors
S4	20	03-04 05-10	20	SILTY SAND, fine, medium dense, brown.				3.4		M		no odors
S5	22	07-07 10-12			SM			3.4		M		no odors
S6	24	05-07 09-09	25							M		no odors

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

Signature [signature] Firm BT², Inc. Geoff Prior

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this form is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06 Wis. Stats.

Department of Natural Resources | Form 4400-122A | 10-92

Boring Number MW2 | Use only as an attachment to Form 4400-122. |

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. (PID/~~FID~~)	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S7	0	09-09 06-10		SILTY SAND, fine, medium dense, brown.						-		no odors
S8	0	07-07 07-07	30		SM					-		no odors
S9	22	02-02 02-02						0		W		no odors
			35	End of boring @ 35'; Set 10' PVC screen to 34.3'. *Blow counts represent a 300 lb wireline hammer with variable drop.								
			40									
			45									
			50									
			55									
			60									
			65									

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☒ Other DERF

SOIL BORING LOG INFORMATION
Form 4400-122 10-92

Facility/Project Name	BT²#	License/Permit/Monitoring Number	Boring Number
2803-2809 University Avenue	2287		MW2P

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
Boart Longyear Mike Mueller	09/04/2002	09/04/2002	4¼" HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
	PG545		Feet	Feet	8.5 Inches

Boring Location	Lat. / Long.	Local Grid Location (If applicable)
State Plane N, E NE 1/4 of NW 1/4 of Section 21, T. 7 N., R. 9 E.		Feet N., Feet E.

County	DNR County Code	Civil Town/City/or Village
Dane	13	Madison

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
				Blind drilled 0 to 34.5'. (See MW 2 for soil descriptions).	GM							
			5		CL-ML							
					CL-ML							
					SM							
			10		SP							
			15		SP-SM							
			20		SM							
			25									

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

Signature	Firm	
John Mason	BT², Inc.	John Mason

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Department of Natural Resources | Form 4400-122A | 10-92

Boring Number MW2P | Use only as an attachment to Form 4400-122. |

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max (PID/~~FID~~)	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
				Blind drilled 0-34.5'. (See MW 2 for soil descriptions).								
			30									
					SM							
S1	0	05-05 05-05	35	SILTY SAND, fine, brown, medium dense; 3" silty clay seam at 37.5'.				-		-		no odors
S2	22	05-05 15-32		POORLY GRADED SAND, fine, dense, pale brown.	SP			0		W		no odors
				SILTY SAND, fine, dense, brown.	SM							
S3	10	22-35	40	SANDSTONE BEDROCK, fine; very pale brown.	SS BR			2		W		no odors
				End of boring @ 41'; Set 2' PVC screen to 40.5'.								
				*Blow counts represent a 300 lb wireline hammer with variable drop.								
			45									
			50									
			55									
			60									
			65									

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☒ DERF

MONITORING WELL CONSTRUCTION
Form 4400-113A **Rev. 7-98**

Facility/Project Name: 2803-2809 University Ave.	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.
Facility License,Permit or Monitoring Number:	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or St.Plane ____ ft. N. ____ ft. S.
Facility ID:	Section Location of Waste/Source: NE 1/4 of NW 1/4 of Sec. 21, T. 7 N, R. 9 ☒E. ☐W.
Type of Well: Well Code 11 / MW	Location of Well Relative to Waste/Source: u ☐Upgradient s ☐Sidegradient d ☐Downgradient n ☐Not Known
Distance From Waste/Source: ____ ft. Enf. Stds. Apply ☒	Gov. Lot Number:

Well Name: MW2	
Wis. Unique Well Number: PG542	DNR Well ID No.
Date Well Installed: 09 / 04 / 2002 (mm / dd / yyyy)	
Well Installed By: Name (first, last) and Firm: Mike Mueller, Boart Longyear	

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐Yes ☒No

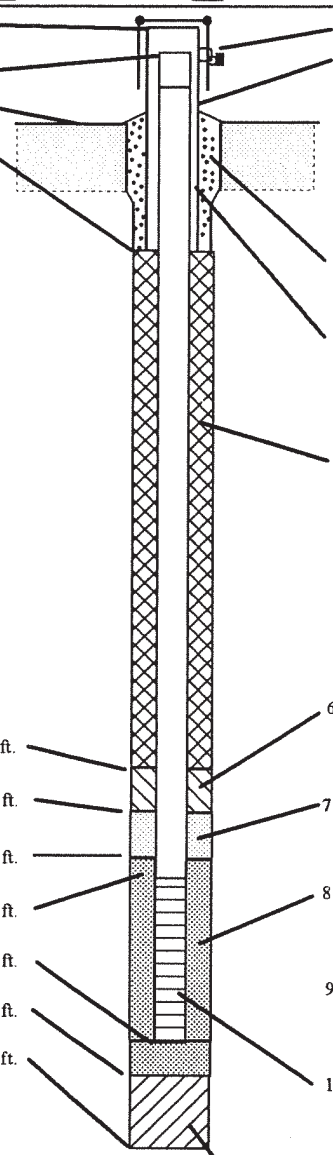
14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☒ 41 Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐Yes ☒No
Describe ____

17. Source of water (attach analysis, if required): ____

E. Bentonite seal, top ____ ft. MSL or ___ ft.
F. Fine sand, top ____ ft. MSL or 20.0 ft.
G. Filter pack, top ____ ft. MSL or 22.0 ft.
H. Screen joint, top ____ ft. MSL or 24.0 ft.
I. Well bottom ____ ft. MSL or 34.3 ft.
J. Filter pack, bottom ____ ft. MSL or 35.0 ft.
K. Borehole, bottom ____ ft. MSL or 35.0 ft.
L. Borehole, diameter 8.5 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ☒Yes ☐No
2. Protective cover pipe:
a. Inside diameter: 7.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 04 Other ☐
d. Additional protection? ☐Yes ☒No
If yes, describe: ____
3. Surface Seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 30 Filter Sand Other ☒
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight...Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight.....Bentonite slurry ☐ 31
d. ____ % Bentonite.....Bentonite-cement grout ☐ 50
e. 4 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. none ☒
7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Silica BB#7
b. Volume added 0.5 ft³
8. Filter pack material:Manufacturer, product name & mesh size
a. American Mat'ls, Red Flint #30
b. Volume added 3.0 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24
10. Screen material: same
a. Screen type: Factory cut ☒ 01 Continuous slot ☐ 02 Other ☐
b. Manufacturer: Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 9.0 ft.
11. Backfill material (below filter pack): None ☒ 14 Other ☐

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

Signature: ____ Firm: BT², Inc., 2830 Dairy Drive, Madison, WI 53718-6751

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats. failure to file these forms may result in a 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 thses forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☒ DERF

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: 2803-2809 University Ave.	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.
Facility License, Permit or Monitoring Number:	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or St.Plane ____ ft. N. ____ ft. S.
Facility ID:	Section Location of Waste/Source: NE 1/4 of NW 1/4 of Sec. 21, T. 7 N, R. 9 ☒E. ☐W.
Type of Well — Well Code: 12 / PZ	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known
Distance From Waste/Source: ____ ft.	Enf. Stds. Apply ☒
Gov. Lot Number:	
Well Name: MW2P	
Wis. Unique Well Number: PG545	DNR Well ID No.
Date Well Installed: 09 / 04 / 2002 (mm / dd / yyyy)	
Well Installed By: Name (first, last) and Firm: Mike Mueller, Boart Longyear	

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation ____ ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or 1.5 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☒ 41 Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required): ____

E. Bentonite seal, top ____ ft. MSL or ___.__ ft.

F. Fine sand, top ____ ft. MSL or ___.__ ft.

G. Filter pack, top ____ ft. MSL or 36.0 ft.

H. Screen joint, top ____ ft. MSL or 38.0 ft.

I. Well bottom ____ ft. MSL or 40.5 ft.

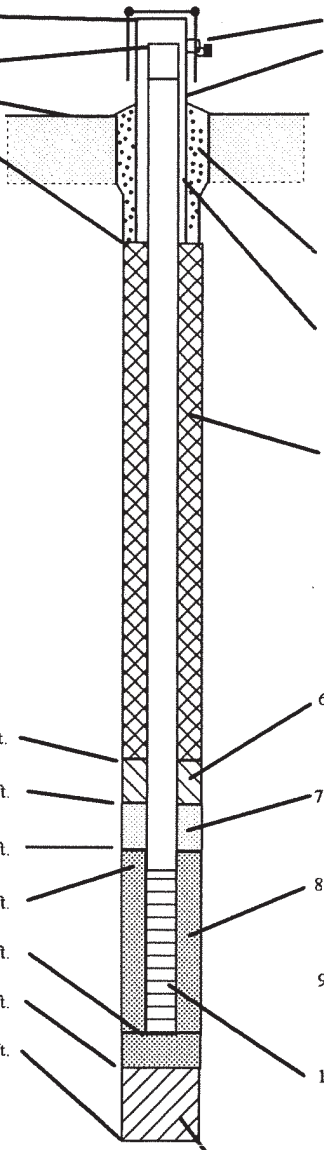
J. Filter pack, bottom ____ ft. MSL or 41.0 ft.

K. Borehole, bottom ____ ft. MSL or 41.0 ft.

L. Borehole, diameter 8.5 in.

M. O.D. well casing 2.40 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 7.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 04 Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface Seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☐ 30 Filter Sand Other ☒ ____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight...Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight.....Bentonite slurry ☐ 31
d. ____ % Bentonite.....Bentonite-cement grout ☐ 50
e. 7 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32
c. none ☒ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. ____
b. Volume added none ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. American Mat'ls, Red Flint #30 ____
b. Volume added 1 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 ____

10. Screen material: same
a. Screen type: Factory cut ☒ 01 Continuous slot ☐ 02 Other ☐ ____
b. Manufacturer: Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 2.0 ft.

11. Backfill material (below filter pack): None ☒ 14 Other ☐ ____

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

Signature: John Mason | Firm: BT^2, Inc., 2830 Dairy Drive, Madison, WI 53718-6751

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats. failure to file these forms may result in a 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 thses forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be

Table 1. Soil Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.72
(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID	Lab Notes	n-Butylbenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2,4- & 1,3,5-TMB Combined	Xylenes
B100	3/18/2002	0-2	1.0	--	<25	<25	<25	<25	<25	<25	<25	**8,500**	<25	<25	<25	<25	<50	<25
	3/18/2002	14-16	11.0	--	<25	<25	<25	<25	<25	<25	<25	**450**	<25	<25	<25	<25	<50	<25
	3/18/2002	22-24	4.0	--	<25	<25	<25	<25	<25	<25	<25	**190**	<25	<25	<25	<25	<50	<25
GB1 S2	8/30/2002	4	8.7	--	<25	<25	<25	<25	<25	<25	<25	**246**	<25	<25	<25	<25	<50	<50
GB1 S3	8/30/2002	6	5.2	--	<25	<25	<25	<25	<25	<25	<25	**1,180**	<25	<25	<25	<25	<50	<50
GB2 S1	8/30/2002	2	18.0	--	<25	<25	**1,240**	34.7	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB2 S4	8/30/2002	8	5.2	--	<25	<25	<25	<25	<25	<25	<25	**217**	<25	<25	<25	<25	<50	<50
GB3 S1	8/30/2002	2	22.6	--	<25	<25	<25	<25	<25	<25	<25	**2,390**	<25	**151**	<25	<25	<50	<50
GB3 S3	8/30/2002	6	9.8	--	<25	<25	<25	<25	<25	<25	<25	**639**	<25	**55.3**	<25	<25	<50	<50
MW1 S3	9/3/2002	9	1.1	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
MW1 S5	9/3/2002	14	1.1	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
B4X S1	9/4/2002	2-4	--	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
GB4 S3	5/28/2003	5	0.0	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB4 S4	5/28/2003	8	0.0	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB5 S3	5/28/2003	5	4.5	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB6 S4	5/28/2003	8	3.5	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB7 S3	5/28/2003	5	0.0	--	<25	<25	<25	<25	<25	<25	<25	**177**	<25	<25	<25	<25	<50	<50
GB7 S5	5/28/2003	9	0.0	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB7 S7	5/28/2003	13	0.0	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB7 S11	5/28/2003	22	56.4	--	25,100	**5,900**	<1,000	<1,000	14,100	**13,100**	7,040	<1,000	<1,000	<1,000	7,570	5,800	**13,370**	2,920
GB8 S6	5/28/2003	12	4.3	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
GB8 S9	5/28/2003	18	1.6	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
GB9 S6	5/28/2003	12	3.0	--	<25	<25	<25	<25	<25	<25	<25	**191**	<1,000	<25	<25	<25	<50	<50
GB9 S10	5/28/2003	19	3.8	--	<25	<25	<25	<25	<25	<25	<25	**132**	<1,000	<25	<25	<25	<50	<50
GB10 S6	5/28/2003	12	0.0	--	<25	<25	<25	<25	<25	<25	<25	**62.2**	<1,000	<25	<25	<25	<50	<50
GB11 S3	5/28/2003	5	0.0	--	<25	<25	<25	<25	<25	<25	<25	**162**	<1,000	<25	<25	<25	<50	<50
GB11 S8	5/28/2003	16	0.0	--	<25	<25	<25	<25	<25	<25	<25	**77.7**	<1,000	<25	<25	<25	<50	<50
GB12 S4	5/28/2003	8	0.0	--	<25	<25	<25	<25	<25	<25	<25	**2,870**	<1,000	**155**	<25	<25	<50	<50
GB12 S10	5/28/2003	20	0.0	--	<25	<25	<25	<25	<25	<25	<25	**452**	<1,000	<25	<25	<25	<50	<50
HA1 S1	5/29/2003	1	4.8	--	<25	<25	<25	<25	<25	<25	<25	**35.9**	<1,000	<25	<25	<25	<50	<50
HA1 S5	5/29/2003	5	8.0	--	<25	<25	<25	<25	<25	<25	<25	**52.5**	<1,000	<25	<25	<25	<50	<50
HA1 S10	5/29/2003	10	10.8	--	<25	<25	<25	<25	<25	<25	<25	**95.3**	<1,000	<25	<25	<25	<50	<50

Table 1. Soil Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.72
(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID	Lab Notes	n-Butylbenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2,4- & 1,3,5-TMB Combined	Xylenes
GB1A	4/20/2004	0-1.5	0.0	--	<31	<31	<31	<31	<31	159	<31	**34**	416	<31	<31	<31	<62	<43
	4/20/2004	1.5-3	3.4	--	<28	<28	<28	<28	<28	**817**	<28	<28	<28	<28	92	54	146	<39
	4/20/2004	3-5	3.1	--	<28	<28	<28	<28	<28	188	<28	<28	<28	<28	144	38	182	<39
	4/20/2004	8-10	1.0	--	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<60	<42
GB2A	4/20/2004	0-1.5	0.0	--	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<56	<39
	4/20/2004	1.5-3	0.0	--	<28	<28	<28	<28	<28	<28	<28	**205**	<28	<28	<28	<28	<56	<40
	4/20/2004	3-5	0.0	--	<28	<28	<28	<28	<28	<28	<28	**270**	<28	**39**	<28	<28	<56	<39
GB3A	4/20/2004	0-1.5	0.0	--	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<56	<39
	4/20/2004	1.5-3	0.0	--	<31	<31	<31	<31	<31	<31	<31	**33**	<31	<31	<31	<31	<62	<44
	4/20/2004	3-5	0.0	--	<31	<31	<31	<31	<31	<31	<31	**1,040**	<31	<31	<31	<31	<62	<44
	4/20/2004	10-10.5	0.0	--	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<56	<39
GB4A	4/20/2004	0-1.5	0.0	--	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<60	<42
	4/20/2004	1.5-3	0.0	--	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<56	<39
	4/20/2004	3-5	0.0	--	<32	<32	<32	<32	<32	<32	<32	**35**	<32	<32	<32	<32	<64	<45
GB5A	4/20/2004	0-1.5	0.0	--	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<60	<42
	4/20/2004	1.5-3	0.0	--	<32	<32	<32	<32	<32	<32	<32	**507**	<32	<32	<32	<32	<64	<44
	4/20/2004	3-5	0.0	--	<32	<32	<32	<32	<32	<32	<32	<32	<32	<32	<32	<32	<64	<44
	4/20/2004	7-8	0.0	--	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<60	<42
GB6A	4/20/2004	0-1.5	2.1	--	<30	<30	<30	<30	<30	<30	<30	**110**	<30	**110**	<30	<30	<60	<42
	4/20/2004	1.5-3	1.7	--	<31	<31	<31	<31	<31	<31	<31	**221**	<31	<31	<31	<31	<62	<43
	4/20/2004	3-5	--	--	<31	<31	<31	<31	<31	<31	<31	**40**	<31	<31	<31	<31	<62	<44
GB7A	4/20/2004	0-1.5	2.1	--	<29	<29	<29	<29	<29	<29	<29	**656**	<29	<29	<29	<29	<58	<40
	4/20/2004	1.5-3	2.5	--	<31	<31	<31	<31	<31	<31	<31	**136**	<31	<31	<31	<31	<62	<43
	4/20/2004	3-5	2.1	--	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<62	<43
GB8A	4/20/2004	0-1.5	1.7	--	<29	<29	<29	<29	<29	<29	<29	**44**	<29	<29	<29	<29	<58	<41
	4/20/2004	1.5-3	1.7	--	<29	<29	<29	<29	<29	61	<29	**140**	<29	<29	<29	<29	<58	<41
	4/20/2004	3-5	1.3	--	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<62	<43
GB13	6/26/2007	0-2	3.5	(1)	<30	<30	**44**	<30	<30	<60	<30	**920**	<30	**160**	<30	<30	<60	<100
	6/26/2007	6-8	4.0	(1)	<31	<31	<31	<31	<31	<62	<31	**340**	<31	<31	<31	<31	<62	<110
GB14	6/26/2007	0-2	0.0	(1)	<29	<29	<29	<29	<29	<59	<29	**52**	<29	**45**	<29	<29	<58	<100
	6/26/2007	4-6	7.0	--	<31	<31	<31	<31	<31	<62	<31	**1,000**	<31	**110**	<31	<31	<62	<110

Table 1. Soil Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.72
(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID	Lab Notes	n-Butylbenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2,4- & 1,3,5-TMB Combined	Xylenes
GB15	6/26/2007	0-2	0.0	--	<28	<28	<28	<28	<28	<56	<28	<28	<28	<28	<28	<28	<56	<96
	6/26/2007	4-6	1.4	--	<31	<31	<31	<31	<31	<63	<31	**450**	<31	<31	<31	<31	<62	<110
GB16	6/26/2007	0-2	0.0	--	<26	<26	<26	<26	<26	<53	<26	<26	<26	<26	<26	<26	<52	<89
	6/26/2007	4-6	0.0	--	<30	<30	<30	<30	<30	<59	<30	**160**	<30	<30	<30	<30	<60	<100
GB17	6/26/2007	0-2	4.2	--	<28	<28	**89**	<28	<28	<57	<28	**960**	<28	**84**	<28	<28	<56	<96
	6/26/2007	4-6	5.6	--	<32	<32	<32	<32	<32	<64	<32	**900**	<32	**54**	<32	<32	<64	<110
GB18	6/26/2007	2-4	4.0	--	<29	<29	41	<29	<29	<57	<29	**1,800**	<29	**100**	<29	<29	<58	<97
	6/26/2007	6-8	23	--	<31	<31	33	<31	<31	<62	<31	**2,000**	<31	**170**	<31	<31	<62	<110
MeOH Blank	8/30/2002	--	--	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	9/3/2002	--	--	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	9/4/2002	--	--	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	5/28/2003	--	--	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	5/29/2003	--	--	--	<25	<25	<25	<25	<25	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	4/20/2004	--	--	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<35
	4/20/2004	--	--	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<35
	6/26/2007	--	--	--	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<50	<85
NR 720 Groundwater Pathway RCLs with a Wisconsin-Default Dilution Factor of 2					NE	144	41.2	62.6	NE	658.2	NE	4.5	1,107.20	3.6	(a)		1382.1	3,960
NR 720 Non-Industrial Direct Contact RCLs					108,000	3,740	156,000	1,560,000	162,000	5,520	NE	33,000	818,000	1,300	219,000	182,000	NE	260,000
NR 720 Industrial Direct Contact RCLs					108,000	16,400	2,340,000	1,850,000	162,000	24,100	NE	145,000	818,000	8,410	219,000	182,000	NE	260,000

Abbreviations:
mg/kg - micrograms per kilogram or parts per billion (ppb)
PID = Photo-Ionization Detector
NE = Not Established
SSRCL = Site Specific Residual Contaminant Level
µg/kg = micrograms per kilogram or parts per billion (ppb)
RCL = Residual Contaminant Level

Notes:
Only detected compounds shown.
Bold+underlined values exceed an NR 720 RCL, as of March 2017.
(a) NR 720 Groundwater Pathway RCLs for 1,2,4 and 1,3,5 Trimethylbenzene Combined = 1,382.1

Laboratory Notes:
(1) Chloromethane - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits. 1,2,3- & 1,2,4-Trichlorobenzene - The RPD exceeded the acceptance limit.

Last revision by: JSN Date: 8/31/2017
Checked by: AV Date: 8/31/2017

I:\2287\Tables-General\[Soil_VOCs.xls]VOCs

ATTACHMENT C

Revised Cost Spreadsheets

SCS Engineers
Time Management / Work Hours Plan

Project: 2803-2809 University Avenue
Project #: 25211228.72
Location: 2803-2809 University Avenue

Scope: Soil Excavation 1000 tons, four quarterly groundwater sampling events, 14 wells

Personnel Hours (Staff/Rate)													
Task	Item Description	PD $190	PM $150	SPP $120	PP $110	FP $100	Sr. Draft $95	AA $67	Eq/Exp $	SCS Total Costs	Sub $	Item Total Costs	Phase Total Costs
PA	**Planning, Approvals, Coord.**												
	Project Setup/Budget Request		4	4				1		$1,147		$1,147	
	Bidding/Contracting/Scheduling	4	4	24						$4,240		$4,240	
	Erosion Control Permit	1	1		4				$100	$880		$880	
	Landfill Profile		2							$300		$300	
	Subtotals	5	11	28	4			1	$100	$6,567			**$6,567**
RA	**Remedial Action: Soil Excav.**												
	Excavation Oversight (5 days)		10		1	50			$200	$6,810		$6,810	
	Excavation Contractor (exc., haul, backfill, restore)										$55,710	$55,710	
	Landfill Contractor (1,000 tons)										$38,100	$38,100	
	Analytical Laboratory										$472	$472	
	Soil Excavation Report	2	8		20		8	4		$4,808		$4,808	
	Subtotals	2	18		21	50	8	4	$200	$11,618	$94,282		**$105,900**
GW	**Groundwater Sampling**												
	Groundwater Sampling (4 quarterly)		8		20	60			$500	$9,900		$9,900	
	Groundwater Reporting (2 semiannual)	2	8		30			8		$5,416		$5,416	
	Laboratory Contractor										$4,968	$4,968	
	Subtotals	2	16		50	60		8	$500	$15,316	$4,968		**$20,284**
	TOTALS	9	45	28	75	110	8	13	$800		$99,250		**$132,751**
	TOTALS	$1,710	$6,750	$3,360	$8,250	$11,000	$760	$871	$800	$33,501	$99,250		**$132,751**

I:\2287\Budgets\[180208_Revised Remedial Action Cost_estimate.xls]Labor

Site Name: McGettigan Property (MOM Partnership)
BRRTS #: 02-13-321347
Type of Action: Remedial Action

Dry Cleaner Environmental Response Program

TASKS	BUDGET				
Bid / Budgeted Description	**Previous budgets**	**Proposed Remedial Action**	**Total Approved Budget**	**Budget Remaining Use (-) to indicate cost over-run**	**% Task Complete, Remarks**
Consultant Costs					
Contaminated Soil Excavation	$ -	$ 18,185.00		$ -	
Groundwater Monitoring	$ -	$ 15,316.00		$ -	
	$ -			$ -	
Consultant Cost Total	*$ -*	*$ 33,501.00*	$ -	*$ -*	
Sub-Contractor Costs					
			$ -	$ -	
Laboratory	$ -	$ 5,440.00		$ -	
Excavation Contractor	$ -	$ 55,710.00		$ -	
Waste Disposal Contractor	$ -	$ 38,100.00		$ -	
	$ -		$ -	$ -	
Sub-Contractor Cost Total	*$ -*	*$ 99,250.00*	*$ -*	*$ -*	
DERF ELIGIBLE SUB-TOTALS	**$ -**	**$ 132,751.00**	**$ -**	**$ -**	

I:\2287\Budgets\[Remediation _Linking Spreadsheet_MOM Partnership_180302.xls]Claim

August 31, 2017

Mr Robert Langdon
SCS Engineers
Madison, WI

Project: University Avenue, Madison, Dry Cleaner Project

Dear Rob,

Waste Management of Wisconsin is pleased to provide you with pricing for disposal per your request. Based upon the information provided, the following summarizes our quotation.

DISPOSAL FACILITY:

Madison Prairie
6002 Nelson Road
Sun Prairie, WI

WASTE STREAMS

Waste Description	Contaminated Soil
Disposal Method	Direct Landfill
Estimated Volume	1000 Tons
Disposal Price	$24.00 per ton
WI Generator Tax	$13.00 per ton
Landfill Environmental Fee	$ .50 per ton
Disposal Fuel Surcharge	$ .50 per ton
Profile Approval Fee	$100 (one time)
Credit Charges(60 days)	2.5% after 30 days

ANALYTICAL TESTING REQUIREMENTS:
Complete and submit profile with analytical testing attached – submit online www.wmsolutions.com

SPECIAL CONDITIONS:
Waste must meet acceptability criteria at the site and comply with local, state and federal regulations, as well as the sites permit requirements. Pricing is contingent upon analytical testing and approval. Customers must have a current Waste Management Industrial Service Agreement.

Pricing is open for consideration for a period of 30 days. Upon acceptance, pricing remains in effect up to and including 60 days from the date of the quote. Pricing based solely on the information available at this time. Additional information may be required prior to approval.

Please do not hesitate to contact me at the phone number below with any questions you may have or if you require any further assistance.

Sincerely,

Brian

Brian Smith
Industrial Account Manager
Manufacturing & Industrial
Bsmith45@WM.com
414-793-0232

BID FORM

2-5-18
~~2-2-09~~

To: BT ², Inc.
Attention: Stephen Sellwood
2830 Dairy Drive
Madison, WI 53718-6751

(costs valid for ~~60~~ 45 dys)

From: Recovery Inc.
(Name of Bidder)

714 1/2 Oak St. Wisconsin Dells, WI
(Address of Bidder)

For: **2803-2809 University Avenue, Madison, Wisconsin**

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner in the form included in the Bid Package to perform all Work as specified in the Bidding Documents for the amount specified below:

Item	Unit	Quantity	Unit Price	Total
Mobilization	Lump Sum	1	1950	1950.00
Asphalt Saw Cutting / Disposal	Lump Sum	1	1900	1900.00
Soil Excavation	Tons	1000	3.65	3650.00
Imported General Backfill Hauling, Placement, and Compaction	Tons	900	12.30 ~~10.30~~	~~9270.00~~ 11,070
Base Course Hauling, Placement, and Compaction	Tons	100	16.10	1610.00
Soil Hauling to Landfill – WM Madison Prairie	Tons	1000	9.00 ~~3.50~~	~~7700.00~~ 9,000
Pavement and Curb Restoration	LS	1	14,600	14,600.00
Total Bid Price				~~36,870.00~~ $43,780
Alternate Bid Items				
Soil Hauling to WM Deer Track Park Landfill	Tons	1000	11.00	

Total Bid Price (Written) ~~Thirty eight thousand eight hundred~~ forty three dollars

2. Final project cost will be based on actual quantities.

3. Should additional Work be required, adjustment will be made to the Contract Sum at the above unit prices, which shall include all expenses, including overhead and profit.

4. Bidder accepts all of the terms and conditions of the Bidding Documents. This Bid shall remain subject to acceptance for 30 days following the Bid opening. If selected for the project, the Bidder will sign and submit the Agreement within 5 days after receipt of the Notice of Award.

(storm sewer removal / replacement not included)
(Landscaping replacement not included)

DMK 2-5-18

Bid Form
Soil Excavation and Hauling
2803-2809 University Avenue, Madison, Wisconsin

Bid Form

To: SCS Engineers
Attention: Deb Nelson
2830 Dairy Drive
Madison, WI 53718-6751

From: Reconex Inc.
(Name of Bidder)

(Address of Bidder)

For: **Soil Excavation and Hauling – 2803-2809 University Avenue, Madison, Wisconsin**

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner to perform all Work as specified in the Bidding Documents for the amount specified below:

Item	Unit	Quantity	Unit Price	Total
Mobilization	Lump Sum	1		
Private Utility Locate	Lump Sum	1	1350	1350
Traffic Control	Lump Sum	1	1880	1880
Building Surveying and Monitoring	Lump Sum	1	8700	8700
Demolition: Asphalt Saw Cutting & Disposal	Lump Sum	1		
Soil Excavation	Tons	1000		
Soil Hauling to Landfill – W M Madison Prairie Landfill	Tons	1000		
Granular Backfill (including Breaker Rock/Coarse Stone and Bedding Material), Hauling, Placement, and Compaction	Tons	900		
Base Course, Hauling, Placement, and Compaction	Tons	100		
Pavement Restoration	Lump Sum	1		
~~Total~~ Bid Price				11,930

Total Bid Price (Written): + Revised 43,780

Original $55,710

Total All Line Items

2-5-10