

June 2, 2023  
A.J. Kitchen

## ATTACHMENT 2 – REVISED ALTERNATIVE 1 - WESTERN EXPANSION



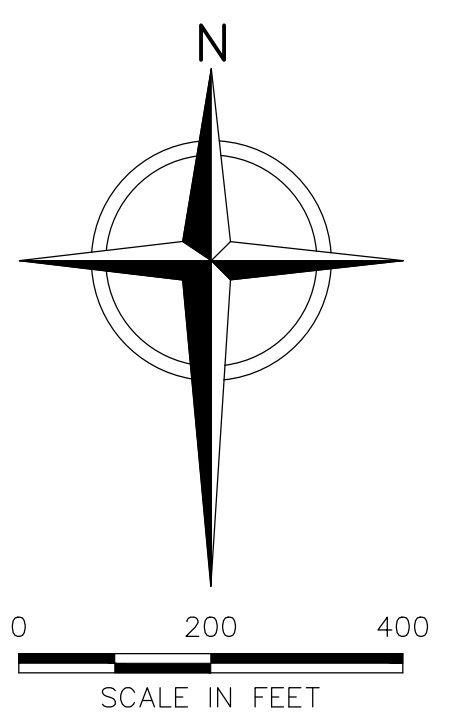
**LEGEND**

- APPROXIMATE PROPERTY LINE
- PAVED ROAD
- - - UNPAVED ROAD
- x x FENCE
- BUILDING
- 800 10' CONTOUR
- 2' CONTOUR
- TREES AND/OR BRUSH
- DELINEATED WETLAND
- W2 WETLAND ID PER 2015 DELINEATION REPORT
- MANMADE SURFACE WATER BODY
- SURFACE WATER BODY
- WETLANDS NO LONGER IMPACTED (SEE NOTE 6)
- GRID INTERSECTION
- - - PERMITTED LIMITS OF WASTE
- OE OVERHEAD ELECTRIC LINE
- DRAINAGE DITCH AND FLOW DIRECTION
- APPROXIMATE LIMITS OF FINAL COVER
- PROPOSED PERIMETER ROAD AND BERM
- LOC PROPOSED LIMITS OF CONSTRUCTION
- 1140 PROPOSED FINAL WASTE 10' CONTOUR
- PROPOSED FINAL WASTE 2' CONTOUR
- - - PROPOSED EXPANSION LIMITS
- PROPOSED HORIZONTAL EXPANSION AREA
- PROPOSED VERTICAL EXPANSION AREA

**WESTERN EXPANSION VOLUME SUMMARY**

| CUT (CY) | FILL (CY) | NET (CY)         |
|----------|-----------|------------------|
| 0        | 7,178,000 | 7,178,000 (FILL) |

- NOTES:**
1. WETLANDS ON THIS DRAWING ARE A COMBINATION OF 2015, 2009 AND EARLIER DELINEATIONS. SEE FIGURE NO. 2 FOR ADDITIONAL WETLAND INFORMATION.
  2. PROPOSED CONTOURS ARE TOP OF WASTE
  3. WASTE VOLUMES ARE APPROXIMATE AND SUBJECT TO CHANGE.
  4. APPROXIMATELY 14.8 ACRES OF WETLANDS WILL BE DIRECTLY IMPACTED BY THE PROPOSED WESTERN EXPANSION, INCLUDING ALL OR PORTIONS OF W1, W2, W2A, W5/6 AND W8. APPROXIMATELY 1.3 ACRES OF WETLANDS WILL HAVE ALREADY BEEN DIRECTLY IMPACTED BY CONSTRUCTION OF THE CURRENTLY PERMITTED EPL AND LIMITS OF CONSTRUCTION, INCLUDING ALL OR PORTIONS OF W1, W2, W3, W4, W7 AND W12.
  5. ADDITIONAL SURVEY AND SITE FEATURES INFORMATION PROVIDED ON FIGURE NO. 2
  6. THIS ALTERNATIVE WAS MODIFIED BY MOVING THE WESTERN LIMITS EAST. THIS RESULTED IN 1.6 ACRES REDUCTION IN WETLANDS BEING IMPACTED WITH PROPOSED LANDFILL CONSTRUCTION. THOSE AREAS NO LONGER TO BE IMPACTED BY CONSTRUCTION ARE SHOWN ON THIS DRAWING.



File: A:\PROJECTS\EMERALD PARK\4221384 - EPA FEASIBILITY\_Phase 4\221325 - Western Expansion Modified.dwg Layout: 03 User: SHAWN CLIMMINS May 04, 2023 - 7:58am  
 1" = 120'  
 0" = 0'

| REV           | DATE  | DESCRIPTION    | DWN BY      | DES BY | CHK BY      | APP BY |
|---------------|-------|----------------|-------------|--------|-------------|--------|
| 1             | 5/4/2 | REVISED DESIGN | SRC         | SRC    | NSD         | MJT    |
| DATE OF ISSUE |       |                | DRAWN BY    |        | CHECKED BY  |        |
| 12/22/2022    |       |                | SRC         |        | LRS         |        |
|               |       |                | DESIGNED BY |        | APPROVED BY |        |
|               |       |                | SRC         |        | MJT         |        |



GFL ENVIRONMENTAL  
 EMERALD PARK LANDFILL  
 MUSKEGO, WISCONSIN  
**PRACTICAL ALTERNATIVES ANALYSIS**  
**WESTERN EXPANSION**  
**ALTERNATIVE 1 - WESTERN EXPANSION**

FIGURE NO.  
**03**  
 PROJECT NO.  
 4221384

**ATTACHMENT 3 – ACOE WESTERN AND NORTHWESTERN EXPANSION  
COMBINATION SKETCH**



- LEGEND**
- APPROXIMATE PROPERTY LINE
  - PAVED ROAD
  - UNPAVED ROAD
  - POLE
  - RAILLINE
  - 1' CONTOUR
  - 5' CONTOUR
  - 10' CONTOUR
  - PROPOSED SURFACE WATER BODY
  - DEGRADED WETLAND
  - WETLAND IN USE AND DELINEATION BOUNDARY
  - UNPAVED SURFACE WATER BODY
  - SURFACE WATER BODY
  - UNDEVELOPED WETLAND
  - PERMITTED LIMITS OF WASTE
  - UNDEVELOPED EXISTING LINE
  - EXPANDED EXISTING LINE
  - PROPOSED LIMITS OF WASTE
  - PROPOSED FILL WASTE 1' CONTOUR
  - PROPOSED FILL WASTE 5' CONTOUR
  - PROPOSED EXPANSION LIMITS
  - PROPOSED HORIZONTAL EXPANSION AREA
  - PROPOSED VERTICAL EXPANSION AREA

**NORTHWESTERN EXPANSION VOLUME SUMMARY**

| CLF (CY) | FILL (CY) | NET (CY)         |
|----------|-----------|------------------|
| 0        | 0.160,000 | 0.160,000 (FILL) |

- NOTES:**
1. PROPOSED CONTOURS ARE TOP OF WASTE
  2. WASTE VOLUMES ARE APPROXIMATE AND QUANTITY TO VARY.
  3. UNDEVELOPED WETLANDS OF WETLANDS SHALL BE STRICTLY PROTECTED BY ALTERNATIVE 5. RESTORATION/ENHANCEMENT OF 0.23 ACRES OF WETLAND SHALL BE REQUIRED TO OFFSET THE IMPACTS OF LOSS OF WETLANDS IN THE PROJECT AREA. THE LOCATION OF RESTORATION/ENHANCEMENT SHALL BE DETERMINED BY THE CONSULTANT IN CONJUNCTION WITH THE STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES.
  4. ADDITIONAL SURVEY AND SITE FEATURES INFORMATION PROVIDED IN THESE NO. 2.



| DATE | BY | DESCRIPTION |
|------|----|-------------|
|      |    |             |
|      |    |             |
|      |    |             |
|      |    |             |



DEL ENVIRONMENTAL  
 EVERETT PARK SACONVILLE  
 SUDBURY, ILLINOIS  
 PRACTICAL ALTERNATIVES ANALYSIS  
 WESTERN EXPANSION  
 ALTERNATIVE 5 - NORTHWESTERN EXPANSION

FIGURE NO. **07**  
 PROJECT NO. 101110

**ATTACHMENT 4 – SOIL BORING LOGS FROM PROPOSED EPL WESTERN EXPANSION  
FEASIBILITY REPORT**

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

|   |                               |                                   |   |  |   |  |
|---|-------------------------------|-----------------------------------|---|--|---|--|
| Facility/Project Name<br><b>Veolia Emerald Park Landfill Expansion</b>  |                               |                                   | License/Permit/Monitoring Number<br><b>3290</b> |  | Boring Number<br><b>MW301C</b>  |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>John Carlson<br/>STS</b>   |                               |                                   | Date Drilling Started<br><b>1/25/2007</b>       |  | Date Drilling Completed<br><b>1/31/2007</b>   | Drilling Method<br><b>Mud rotary</b>   |
| WI Unique Well No.<br><b>PI953</b>  | DNR Well ID No.<br><b>188</b> | Common Well Name<br><b>MW301C</b> | Final Static Water Level<br><b>Feet MSL</b>     |  | Surface Elevation<br><b>775.1 Feet MSL</b>  | Borehole Diameter<br><b>6.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>315,872 N, 2,513,567 E S/C/N</b> |                               |                                   | Lat <b>_____</b><br>Long <b>_____</b>           |  | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |  |
| 1/4 of <b>1/4 of Section 36, T 5 N, R 20 E</b>  | County<br><b>Waukesha</b>     | County Code<br><b>68</b>          | Civil Town/City/ or Village<br><b>Muskego</b>   |  |   |  |
| Facility ID<br><b>268244130</b>   |                               |                                   |   |  |   |  |

| 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<br>SS                | 24<br>16.8                   | 4<br>3<br>3<br>3 | 1             | <b>TOPSOIL</b> , silty lean clay, trace sand, plastic, 10YR 2/2 very dark brown, moist, very stiff, roots.   | CL   |             |              |         |                      |                  |              |                  |       |               | p.p. = 2.75 tsf  |                 |
| 2<br>SS                | 24<br>19.2                   | 2<br>2<br>3<br>4 | 2<br>3        | <b>SILTY LEAN CLAY (CL)</b> , with fine to medium sand seams, 10YR 5/4 yellowish brown, wet, stiff. (Till)<br><b>SILTY LEAN CLAY (CL)</b> , trace to some fine to medium sand, 10YR 5/1 gray, wet, stiff. (Till) |      |             |              |         |                      |                  |              |                  |       |               |  | p.p. = 1.75 tsf |
| 3<br>SS                | 24<br>20.4                   | 4<br>2<br>3<br>4 | 4<br>5        | Same as above.   |      |             |              |         |                      |                  |              |                  |       |               |  | p.p. = 1.5 tsf  |
| 4<br>SS                | 24<br>12                     | 2<br>2<br>4<br>5 | 6<br>7        | Same as above.   | CL   |             |              |         |                      |                  |              |                  |       |               |  | p.p. = 2.0 tsf  |
| 5<br>SS                | 24<br>15.6                   | 3<br>3<br>7<br>8 | 8<br>9        | Same as above, very stiff.   |      |             |              |         |                      |                  |              |                  |       |               |  | p.p. = 2.25 tsf |
| 6<br>SS                | 24<br>16.8                   | 3<br>3<br>5<br>7 | 10<br>11      | <b>SILTY LEAN CLAY (CL)</b> , with 1" to 2" silt seam, plastic, 10YR 5/1 gray, moist, very stiff.  |      |             |              |         |                      |                  | 27           | 12               | 87.4  |               | p.p. = 3.25 tsf<br>Lab Classification = Lean Clay (CL) |                 |

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

|                                    |   |  |
|------------------------------------|---|--|
| Signature<br><i>Thomas E. Koch</i> | Firm<br><b>RMT, Inc.</b><br>744 Heartland Trail Madison, WI 53717 | Tel: (608) 831-4444<br>Fax: (608) 831-3334 |
|------------------------------------|---|--|

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.

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| Sample             |                                 | Blow Counts        | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit                                 | USCS | Graphic<br>Log | Well<br>Diagram | PID/FID | Soil Properties         |                     |                 |                     |                 | RQD/<br>Comments |
|--------------------|---------------------------------|--------------------|---------------|---|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-----------------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |                    |               |   |      |                |                 |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200           |                  |
| 7<br>SS            | 24<br>6                         | 4<br>5<br>6<br>10  | 13            | Same as above, trace fine gravel, no pocket pen, disturbed sample.                                  |      |                |                 |         |                         |                     |                 |                     |                 |                  |
| 8<br>SS            | 24<br>16.8                      | 4<br>5<br>10<br>12 | 14<br>15      | <b>SILTY LEAN CLAY (CL)</b> , trace fine gravel, plastic, 10YR 5/1 gray, moist, very stiff.         |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.5 tsf  |                  |
| 9<br>SS            | 24<br>20.4                      | 3<br>5<br>6<br>8   | 16<br>17      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 3.0 tsf  |                  |
| 10<br>SS           | 24<br>24                        | 2<br>3<br>5<br>6   | 18<br>19      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.0 tsf  |                  |
| 11<br>SS           | 24<br>15.6                      | 2<br>3<br>6<br>6   | 20<br>21      | <b>SILTY LEAN CLAY (CL)</b> , with fine sand seams and trace gravel, plastic, 10YR 5/1 gray, stiff. |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.75 tsf |                  |
| 12<br>SS           | 24<br>24                        | 2<br>2<br>4<br>4   | 22<br>23      | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR 5/1 gray, moist, stiff.                                 | CL   |                |                 |         |                         |                     |                 |                     | p.p. = 1.5 tsf  |                  |
| 13<br>SS           | 24<br>24                        | WOH<br>2<br>3<br>3 | 24<br>25      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.5 tsf  |                  |
| 14<br>SS           | 24<br>24                        | WOH<br>2<br>2<br>3 | 26<br>27      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.75 tsf |                  |
| 15<br>SS           | 24<br>0                         | 1<br>2<br>2<br>3   | 28<br>29      | No recovery - possibly pushed gravel/rock.  |      |                |                 |         |                         |                     |                 |                     |                 |                  |
| 16<br>SS           | 24<br>8.4                       | 2<br>2<br>3<br>4   | 30<br>31      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.0 tsf  |                  |

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| Sample             |                                 | Blow Counts      | Depth in Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit | USCS | Graphic<br>Log | Well<br>Diagram | PID/FID | Soil Properties         |                     |                 |                     |                    | RQD/<br>Comments |
|--------------------|---------------------------------|------------------|---------------|---|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|--------------------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |                  |               |   |      |                |                 |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200              |                  |
| 17<br>SS           | 24<br>24                        | 1<br>3<br>3<br>3 | 33            | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.75<br>tsf |                  |
| 18<br>SS           | 24<br>24                        | 2<br>4<br>5<br>6 | 34<br>35      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.5 tsf     |                  |
| 19<br>SS           | 24<br>24                        | 2<br>5<br>6<br>7 | 36<br>37      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.75<br>tsf |                  |
| 20<br>SS           | 24                              | 2<br>3<br>3<br>5 | 38<br>39      | Same as above.  |      |                |                 |         |                         |                     |                 |                     |                    |                  |
| 21<br>SS           | 24<br>24                        | 1<br>3<br>4<br>5 | 40<br>41      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.75<br>tsf |                  |
| 22<br>SS           | 24<br>14.4                      | 2<br>3<br>3<br>5 | 42<br>43      | Same as above.  | CL   |                |                 |         |                         |                     |                 |                     | p.p. = 1.0 tsf     |                  |
| 23<br>SS           | 24<br>16.8                      | 3<br>3<br>3<br>5 | 44<br>45      | Same as above, trace coarse gravel.                                 |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.75<br>tsf |                  |
| 24<br>SS           | 24<br>24                        | 2<br>3<br>4<br>6 | 46<br>47      | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR 5/1 gray, moist, stiff. |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.0 tsf     |                  |
| 25<br>SS           | 24<br>24                        | 2<br>3<br>5<br>5 | 48<br>49      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.75<br>tsf |                  |
| 26<br>SS           | 24<br>21.6                      | 3<br>4<br>5<br>6 | 50<br>51      | Same as above, trace fine gravel, very stiff.                       |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.25<br>tsf |                  |

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| Sample             |                                 | Blow Counts | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit   | USCS | Graphic<br>Log  | Well<br>Diagram  | PID/FID | Soil Properties         |                     |                 |                     |                    | P 200 | RQD/<br>Comments |
|--------------------|---------------------------------|-------------|---------------|---|------|---|--|---------|-------------------------|---------------------|-----------------|---------------------|--------------------|-------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |             |               |   |      |   |  |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index |                    |       |                  |
| 27<br>SS           | 24                              | 2           |               | Same as above.  |      |  |  |         |                         |                     |                 |                     | p.p. = 2.25<br>tsf |       |                  |
|                    | 24                              | 3           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 5           | 53            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 28<br>SS           | 24                              | 2           | 54            | Same as above, stiff.   |      |  |  |         |                         |                     |                 | p.p. = 1.75<br>tsf  |                    |       |                  |
|                    | 24                              | 4           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 5           | 55            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 29<br>SS           | 24                              | 1           | 56            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 1.25<br>tsf  |                    |       |                  |
|                    | 24                              | 3           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 4           | 57            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 30<br>SS           | 24                              | 2           | 58            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 1.75<br>tsf  |                    |       |                  |
|                    | 24                              | 3           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 5           | 59            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 31<br>SS           | 24                              | 3           | 60            | <b>SILTY LEAN CLAY (CL)</b> , trace to little<br>fine to medium sand seams, plastic, 10YR<br>5/1 gray, moist. | CL   |  |  |         |                         |                     |                 | p.p. = 3.5 tsf      |                    |       |                  |
|                    | 21.6                            | 5           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 | 7           | 61            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 32<br>SS           | 24                              | 7           | 62            | Same as above, no sand.   |      |  |  |         |                         |                     |                 | p.p. = 3.5 tsf      |                    |       |                  |
|                    | 21.6                            | 12          |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 | 14          | 63            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 33<br>SS           | 24                              | 4           | 64            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 2.0 tsf      |                    |       |                  |
|                    | 24                              | 5           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 | 6           | 65            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 34<br>SS           | 24                              | 3           | 66            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 2.0 tsf      |                    |       |                  |
|                    | 24                              | 4           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 | 6           | 67            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 35<br>SS           | 24                              | 2           | 68            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 1.75<br>tsf  |                    |       |                  |
|                    | 20.4                            | 3           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 | 3           | 69            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 36<br>SS           | 24                              | 2           | 70            | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR<br>5/1 gray, moist, stiff.  |      |  |  |         |                         |                     |                 | p.p. = 2.0 tsf      |                    |       |                  |
|                    | 24                              | 3           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 | 4           | 71            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 | 6           | 72            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |

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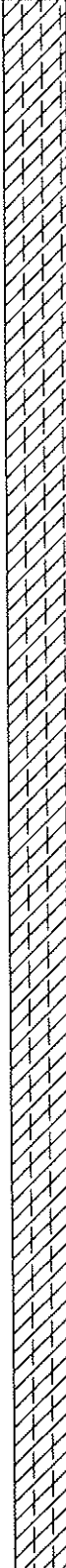

| Sample             |                                 | Blow Counts | Depth in Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit   | USCS | Graphic<br>Log  | Well<br>Diagram  | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |  |
|--------------------|---------------------------------|-------------|---------------|---|------|---|--|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|--|
| Number<br>and Type | Length Alt. &<br>Recovered (in) |             |               |   |      |   |  |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |  |
| 37<br>SS           | 24                              | 3           |               | Same as above.  |      |  |  |         |                         |                     |                 | 45                  | 23    | 99.8             | p.p. = 2.0 tsf<br>Lab<br>Classification<br>= Lean Clay<br>(CL) |
|                    | 24                              | 4           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 5           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 6           | 73            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 38<br>SS           | 24                              | 4           |               | Same as above.  |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.5 tsf   |
|                    | 24                              | 4           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 6           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 6           | 75            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 39<br>SS           | 24                              | 4           |               | Same as above, trace fine gravel.   |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 2.0 tsf   |
|                    | 24                              | 5           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 6           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 7           | 77            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 40<br>SS           | 24                              | 4           |               | Same as above.  |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 2.0 tsf   |
|                    | 20.4                            | 4           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 5           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 6           | 79            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 41<br>SS           | 24                              | 2           |               | Same as above.  |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.25<br>tsf   |
|                    | 24                              | 3           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 4           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 6           | 81            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 42<br>SS           | 24                              | 2           |               | Same as above.  | CL   |  |  |         |                         |                     |                 |                     |       |                  |  |
|                    | 24                              | 3           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 4           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 5           | 83            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 43<br>SS           | 24                              | 2           |               | Same as above.  |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.5 tsf   |
|                    | 24                              | 3           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 3           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 5           | 85            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 44<br>SS           | 24                              | 5           |               | Same as above.  |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.0 tsf   |
|                    | 15.6                            | 8           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 8           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 8           | 87            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 45<br>SS           | 24                              | 2           |               | <b>SILTY LEAN CLAY (CL)</b> , trace to little<br>medium to coarse sand, plastic, 10YR 5/1<br>gray, moist, very stiff, 0.25" fine to<br>medium sand seams at 88.5 and 89.0 feet. |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 4.0 tsf   |
|                    | 12                              | 4           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 9           |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 9           | 89            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 46<br>SS           | 24                              | 8           |               |   |      |  |  |         |                         |                     |                 |                     |       |                  |  |
|                    | 19.2                            | 14          |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 17          |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 19          | 91            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 |             |               |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |

15

Boring Number MW301C













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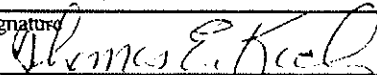
| Sample             |                                 | Blow Counts          | Depth in Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit              | USCS | Graphic<br>Log  | Well<br>Diagram  | PID/FID | Soil Properties         |                     |                 |                     |                | RQD/<br>Comments           |                 |
|--------------------|---------------------------------|----------------------|---------------|--|------|---|--|---------|-------------------------|---------------------|-----------------|---------------------|----------------|----------------------------|-----------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |                      |               |  |      |   |  |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200          |                            |                 |
| 47<br>SS           | 24<br>21.6                      | 10<br>15<br>19<br>24 | 93            | SILTY LEAN CLAY (CL), trace medium to coarse sand, plastic, 10YR 5/1 gray, hard. | CL   |  |  |         |                         |                     |                 |                     | p.p. > 4.5 tsf |                            |                 |
| 48<br>SS           | 24<br>24                        | 8<br>10<br>12<br>16  | 94<br>95      |  |      |   |  |         |                         |                     |                 |                     |                | Same as above, very stiff. | p.p. = 3.75 tsf |
| 49<br>SS           | 24<br>24                        | 10<br>13<br>15<br>7  | 96<br>97      |  |      |   |  |         |                         |                     |                 |                     |                | Same as above.             | p.p. = 4.25 tsf |
| 50<br>SS           | 24<br>20.4                      | 8<br>10<br>11<br>15  | 98<br>99      |  |      |   |  |         |                         |                     |                 |                     |                | Same as above.             | p.p. = 4.25 tsf |
| 51<br>SS           | 24<br>24                        | 6<br>9<br>11<br>14   | 100<br>101    |  |      |   |  |         |                         |                     |                 |                     |                | Same as above.             | p.p. = 4.25 tsf |
| 52<br>SS           | 24<br>24                        | 12<br>14<br>16<br>19 | 105<br>106    |  |      |   |  |         |                         |                     |                 |                     |                | Same as above.             | p.p. = 4.0 tsf  |
| 53<br>SS           | 24<br>24                        | 7<br>10<br>13<br>17  | 110<br>111    | SILTY LEAN CLAY (CL), plastic, 10YR 5/1 gray, moist, very hard.                  |      |   |  |         |                         |                     |                 | p.p. = 4.25 tsf     |                |                            |                 |

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

|  |  |  |   |  |   |   |  |
|--|--|--|---|--|---|---|--|
| Facility/Project Name<br><b>Veolia Emerald Park Landfill Expansion</b>   |  |  | License/Permit/Monitoring Number<br><b>3290</b> |  | Boring Number<br><b>MW302C</b>                        |   |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>John Carlson<br/>STS</b>  |  |  | Date Drilling Started<br><b>1/16/2007</b>       |  | Date Drilling Completed<br><b>1/20/2007</b>           |   |  |
| Drilling Method<br><b>Mud rotary</b>   |  | WI Unique Well No.<br><b>PA420</b>         |   | DNR Well ID No.<br><b>194</b>          |   | Common Well Name<br><b>MW302C</b>             |  |
| Final Static Water Level<br><b>Feet MSL</b>  |  | Surface Elevation<br><b>777.3 Feet MSL</b> |   | Borehole Diameter<br><b>6.0 inches</b> |   |   |  |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> |  |  | Local Grid Location                             |  |   |   |  |
| State Plane<br><b>314,742 N, 2,513,581 E S/C/N</b>   |  |  | Lat _____ "                                     |  | <input type="checkbox"/> N <input type="checkbox"/> E |   |  |
| 1/4 of Section <b>36, T 5 N, R 20 E</b>  |  |  | Long _____ "                                    |  | <input type="checkbox"/> S <input type="checkbox"/> W |   |  |
| Facility ID<br><b>268244130</b>  |  | County<br><b>Waukesha</b>                  |   | County Code<br><b>68</b>               |   | Civil Town/City/ or Village<br><b>Muskego</b> |  |





















| 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<br>SS                | 24<br>16.8                   | WOH<br>3<br>3<br>4  | 1             | <b>TOPSOIL</b> , silty lean clay, 10YR 2/1 black to 10YR 6/4 light yellowish brown.                             | CL      |    |    |         |                      |                  |              |                  |       | p.p. = 1.5 tsf                             |
| 2<br>SS                | 24<br>16.8                   | 2<br>3<br>4<br>3    | 2<br>3        | <b>SILTY LEAN CLAY (CL)</b> , trace medium to coarse sand, with orange mottling. (Till)<br><br>Same as above.   |         |    |    |         |                      |                  |              |                  |       | Gradational contact.<br><br>p.p. = 2.0 tsf |
| 3<br>SS                | 24<br>20.4                   | 4<br>5<br>7<br>8    | 4<br>5        | Same as above, grading to 10YR 5/1 gray, plastic, very stiff.   |         |   |   |         |                      |                  |              |                  |       | p.p. = 2.75 tsf                            |
| 4<br>SS                | 24<br>24                     | 5<br>10<br>12<br>14 | 6<br>7        | <b>SILTY LEAN CLAY (CL)</b> , trace fine to medium sand, trace gravel, plastic, 10YR 4/1 dark gray, very stiff. | CL      |  |  |         |                      |                  |              |                  |       | p.p. = 4.5 tsf                             |
| 5<br>SS                | 24<br>20.4                   | 5<br>7<br>11<br>14  | 8<br>9        | Same as above.  |         |  |  |         |                      |                  |              |                  |       | p.p. > 4.5 tsf                             |
| 6<br>SS                | 24<br>21.6                   | 5<br>7<br>13<br>15  | 10<br>11      | <b>SILTY LEAN CLAY (CL)</b> , no sand, plastic, 10YR 5/1 gray, moist, very stiff.                               |         |  |  |         |                      |                  |              |                  |       | p.p. = 3.5 tsf                             |

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

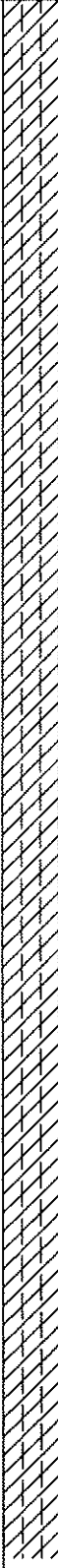

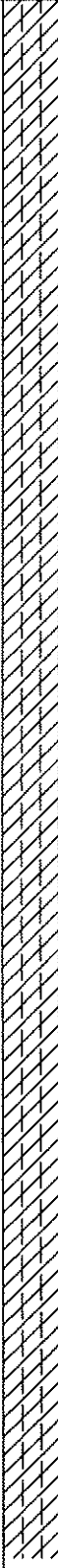

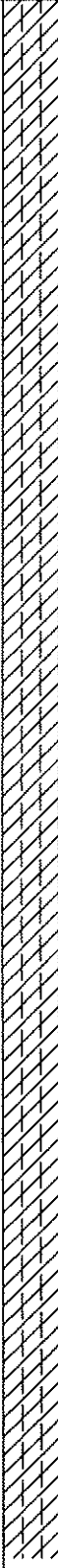

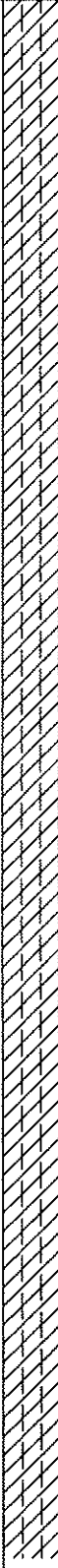

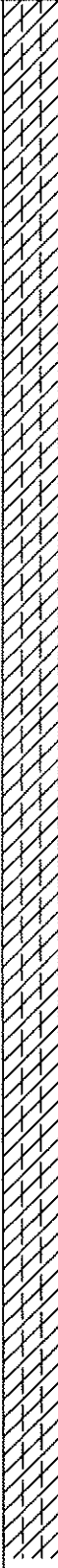

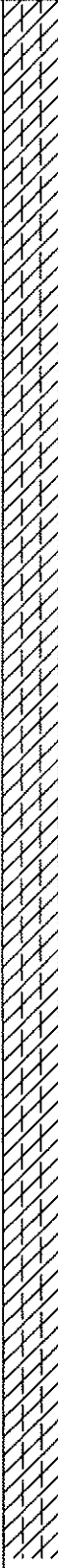

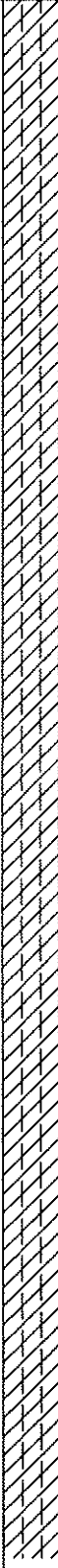

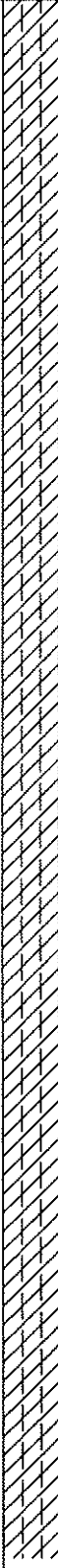

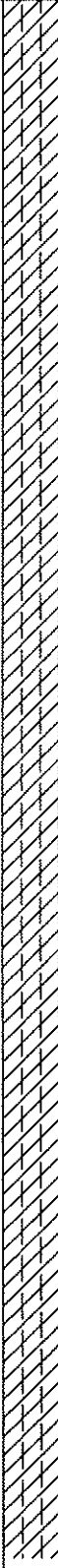

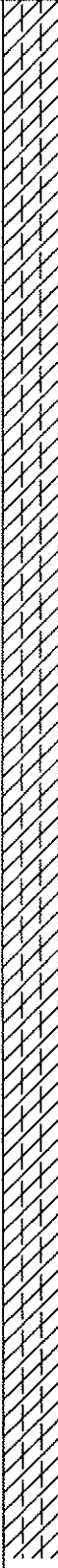

|  |   |  |
|--|---|--|
| Signature<br> | Firm<br><b>RMT, Inc.</b><br>744 Heartland Trail Madison, WI 53717 | Tel: (608) 831-4444<br>Fax: (608) 831-3334 |
|--|---|--|

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.





















Boring Number **MW302C** Use only as an attachment to Form 4400-122.

| Sample             |                                 | Blow Counts | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit    | USCS | Graphic<br>Log  | Well<br>Diagram  | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |  |
|--------------------|---------------------------------|-------------|---------------|--|------|---|--|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|--|
| Number<br>and Type | Length Att. &<br>Recovered (in) |             |               |  |      |   |  |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |  |
| 7<br>SS            | 24                              | 5           | 13            | Same as above.   |      |  |  |         |                         |                     |                 | 30                  | 13    | 86.9             | p.p. = 4.5 tsf<br>Lab<br>Classification<br>= Lean Clay<br>(CL) |
|                    | 20.4                            | 6           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 11          |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 15          |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 8<br>SS            | 24                              | 4           | 14            | Same as above.   |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 3.25<br>tsf   |
|                    | 19.2                            | 6           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 8<br>9      |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 9<br>SS            | 24                              | 4           | 16            | Same as above.   |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 3.0 tsf   |
|                    | 15.6                            | 5           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 8<br>9      |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 10<br>SS           | 24                              | 2           | 18            | Same as above.   |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 2.0 tsf   |
|                    | 21.6                            | 3           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 5<br>5      |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 11<br>SS           | 24                              | 3           | 20            | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR<br>5/1 gray, moist, stiff. | CL   |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.5 tsf   |
|                    | 24                              | 3           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 3<br>5      |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 12<br>SS           | 24                              | 2           | 22            | Same as above.   |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.5 tsf   |
|                    | 24                              | 5           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 4<br>5      |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 13<br>SS           | 24                              | WOH         | 24            | Same as above, medium stiff.   |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.0 tsf   |
|                    | 24                              | 2           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 3<br>3      |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 14<br>SS           | 24                              | 2           | 26            | Same as above, stiff.  |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.25<br>tsf   |
|                    | 21.6                            | 2           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 2<br>3<br>2 |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 15<br>SS           | 24                              | 2           | 28            | Same as above, stiff.  |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.5 tsf   |
|                    | 24                              | 3           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 4<br>5      |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
| 16<br>SS           | 24                              | 2           | 30            | Same as above.   |      |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 1.25<br>tsf   |
|                    | 24                              | 3           |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 | 2<br>3      |               |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 |             | 31            |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |
|                    |                                 |             | 32            |  |      |   |  |         |                         |                     |                 |                     |       |                  |  |

Boring Number **MW302C** Use only as an attachment to Form 4400-122. Page 3 of 8

| Sample             |                                 | Blow Counts | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit | USCS | Graphic<br>Log   | Well<br>Diagram   | PID/FID | Soil Properties         |                     |                 |                     |                | RQD/<br>Comments |
|--------------------|---------------------------------|-------------|---------------|---|------|--|---|---------|-------------------------|---------------------|-----------------|---------------------|----------------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |             |               |   |      |  |   |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200          |                  |
| 17<br>SS           | 24                              | 2           | 33            | Same as above.  |      |  |  |         |                         |                     |                 |                     | p.p. = 1.0 tsf |                  |
|                    | 24                              | 3           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 4           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 4           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
| 18<br>SS           | 24                              | 1           | 34            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 1.25 tsf     |                |                  |
|                    | 24                              | 3           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 2           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
| 19<br>SS           | 24                              | 3           | 36            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 1.5 tsf      |                |                  |
|                    | 24                              | 3           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 5           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 6           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
| 20<br>SS           | 24                              | 2           | 38            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 1.5 tsf      |                |                  |
|                    | 24                              | 3           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 5           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 5           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
| 21<br>SS           | 24                              | 3           | 40            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 2.0 tsf      |                |                  |
|                    | 24                              | 4           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 6           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 7           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
| 22<br>SS           | 24                              | 3           | 42            | Same as above, with one piece of ~1.5" gravel.                      | CL   |  |  |         |                         |                     |                 | p.p. = 2.0 tsf      |                |                  |
|                    | 13.2                            | 4           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 6           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 8           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
| 23<br>SS           | 24                              | 3           | 44            | Same as above, very stiff.  |      |  |  |         |                         |                     |                 | p.p. = 2.5 tsf      |                |                  |
|                    | 24                              | 5           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 7           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 9           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
| 24<br>SS           | 24                              | 3           | 46            | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR 5/1 gray, moist, stiff. |      |  |  |         |                         |                     |                 | p.p. = 2.0 tsf      |                |                  |
|                    | 24                              | 3           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 6           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 7           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
| 25<br>SS           | 24                              | 3           | 48            | Same as above, stiff.   |      |  |  |         |                         |                     |                 | p.p. = 1.75 tsf     |                |                  |
|                    | 21.6                            | 3           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 5           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 8           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
| 26<br>SS           | 24                              | 7           | 50            | Same as above, trace very fine gravel, very stiff.                  |      |  |  |         |                         |                     |                 | p.p. = 3.5 tsf      |                |                  |
|                    | 19.2                            | 9           |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 13          |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 15          |               |   |      |  |   |         |                         |                     |                 |                     |                |                  |

Boring Number **MW302C** Use only as an attachment to Form 4400-122.

| Sample             |                                 | Blow Counts          | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit                     | USCS | Graphic<br>Log   | Well<br>Diagram   | PID/FID | Soil Properties         |                     |                 |                     |                 | RQD/<br>Comments |
|--------------------|---------------------------------|----------------------|---------------|---|------|--|---|---------|-------------------------|---------------------|-----------------|---------------------|-----------------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |                      |               |   |      |  |   |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200           |                  |
| 27<br>SS           | 24<br>19.2                      | 7<br>13<br>17<br>18  | 53            | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR 5/1 gray, moist, hard.                      |      |   |   |         |                         |                     |                 |                     | p.p. > 4.5 tsf  |                  |
| 28<br>SS           | 24<br>21.6                      | 3<br>4<br>5<br>7     | 54<br>55      | Same as above, very stiff.  |      |   |   |         |                         |                     |                 |                     | p.p. = 2.5 tsf  |                  |
| 29<br>SS           | 24<br>24                        | 3<br>4<br>7<br>8     | 56<br>57      | Same as above.  |      |   |   |         |                         |                     |                 |                     | p.p. = 2.25 tsf |                  |
| 30<br>SS           | 24<br>21.6                      | 3<br>2<br>4<br>4     | 58<br>59      | Same as above.  |      |   |   |         |                         |                     |                 |                     | p.p. = 2.0 tsf  |                  |
| 31<br>SS           | 24<br>24                        | 4<br>5<br>7<br>9     | 60<br>61      | Same as above.  |      |  |  |         |                         |                     |                 |                     | p.p. = 1.75 tsf |                  |
| 32<br>SS           | 24<br>24                        | 5<br>7<br>9<br>10    | 62<br>63      | Same as above.  | CL   |  |  |         |                         |                     |                 |                     | p.p. = 2.0 tsf  |                  |
| 33<br>SS           | 24<br>24                        | 4<br>5<br>5<br>8     | 64<br>65      | Same as above.  |      |  |  |         |                         |                     |                 |                     | p.p. = 2.0 tsf  |                  |
| 34<br>SS           | 24<br>24                        | 7<br>10<br>14<br>6   | 66<br>67      | Same as above, little silt (ML) in spoon tip.   |      |  |  |         |                         |                     |                 |                     | p.p. = 2.75 tsf |                  |
| 35<br>SS           | 24<br>24                        | 9<br>13<br>18<br>20  | 68<br>69      | <b>SILTY LEAN CLAY (CL)</b> , trace fine to medium sand, plastic, 10YR 5/1 gray, moist. |      |  |  |         |                         |                     |                 |                     | p.p. = 3.5 tsf  |                  |
| 36<br>SS           | 24<br>15.6                      | 11<br>14<br>23<br>28 | 70<br>71      | <b>SILTY LEAN CLAY (CL)</b> , trace fine to medium sand, plastic, 10YR 5/1 gray, moist. |      |  |  |         |                         |                     |                 |                     | p.p. = 4.0 tsf  |                  |

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Boring Number **MW302C** Use only as an attachment to Form 4400-122.

| Sample             |                                 | Blow Counts          | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit   | USCS | Graphic<br>Log | Well<br>Diagram | PID/FID | Soil Properties         |                     |                 |                     |  | P 200 | RQD/<br>Comments |
|--------------------|---------------------------------|----------------------|---------------|---|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|--|-------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |                      |               |   |      |                |                 |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index |  |       |                  |
| 37<br>SS           | 24<br>22.8                      | 7<br>12<br>19<br>29  | 73            | Same as above, hard.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.75<br>tsf   |       |                  |
| 38<br>SS           | 24<br>20.4                      | 15<br>17<br>28<br>44 | 74<br>75      | Silty sand, 30% to 40% fines from 73.5 to 73.7 feet.<br>Same as above, hard.<br>Silty fine sand from 74.8 to 75.1 feet. |      |                |                 |         |                         |                     |                 |                     | p.p. > 4.5 tsf   |       |                  |
| 39<br>SS           | 24<br>24                        | 13<br>25<br>38<br>50 | 76<br>77      | <b>SILTY LEAN CLAY (CL)</b> , trace fine to medium sand, plastic, 10YR 5/1 gray, moist.                                 |      |                |                 |         | 33                      | 15                  | 91.6            |                     | p.p. > 4.5 tsf<br>Lab<br>Classification<br>= Lean Clay<br>(CL) |       |                  |
| 40<br>SS           | 24<br>24                        | 9<br>15<br>24<br>36  | 78<br>79      | Same as above.  |      |                |                 |         |                         |                     |                 |                     | p.p. > 4.5 tsf   |       |                  |
| 41<br>SS           | 24<br>21.6                      | 8<br>12<br>18<br>28  | 80<br>81      | Same as above, hard.  |      |                |                 |         |                         |                     |                 |                     | p.p. > 4.5 tsf   |       |                  |
| 42<br>SS           | 24<br>24                        | 7<br>11<br>19<br>20  | 82<br>83      | Same as above, very stiff.  | CL   |                |                 |         |                         |                     |                 |                     | p.p. = 2.75<br>tsf   |       |                  |
| 43<br>SS           | 24<br>15.6                      | 9<br>12<br>17<br>21  | 84<br>85      | Same as above, very stiff. First run, no recovery, second run, pushed spoon.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.75<br>tsf   |       |                  |
| 44<br>SS           | 24<br>12                        | 5<br>6<br>12<br>18   | 86<br>87      | Same as above, very stiff.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.25<br>tsf   |       |                  |
| 45<br>SS           | 24<br>24                        | 5<br>9<br>12<br>18   | 88<br>89      | Same as above, two attempts to get recovery.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.75<br>tsf   |       |                  |
| 46<br>SS           | 24<br>20.4                      | 8<br>10<br>13<br>21  | 90<br>91      | Same as above, stiff.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.75<br>tsf   |       |                  |

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Boring Number **MW302C**

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| Sample             |                                 | Blow Counts         | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit  | USCS | Graphic<br>Log | Well<br>Diagram | PID/FID | Soil Properties         |                     |                 |                     |                    | P 200 | RQD/<br>Comments |
|--------------------|---------------------------------|---------------------|---------------|--|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|--------------------|-------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |                     |               |  |      |                |                 |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index |                    |       |                  |
| 47<br>SS           | 24<br>22.8                      | 9<br>12<br>15<br>19 | 93            | Same as above, very stiff.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.25<br>tsf |       |                  |
| 48<br>SS           | 24<br>24                        | 6<br>10<br>13<br>16 | 94<br>95      | Same as above.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.75<br>tsf |       |                  |
| 49<br>SS           | 24<br>24                        | 7<br>9<br>12<br>18  | 96<br>97      | <b>SILTY LEAN CLAY (CL)</b> , trace fine to medium sand, plastic, 10YR 5/1 gray, no odor, moist, very stiff. |      |                |                 |         |                         |                     |                 |                     | p.p. = 3.0 tsf     |       |                  |
| 50<br>SS           | 24<br>24                        | 8<br>10<br>15<br>18 | 98<br>99      | Same as above, no sand.  |      |                |                 |         |                         |                     |                 |                     | p.p. = 3.5 tsf     |       |                  |
| 51<br>SS           | 24<br>24                        | 6<br>9<br>13<br>18  | 100<br>101    | Same as above.   |      |                |                 |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 |                     | 102           |  | CL   |                |                 |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 |                     | 103           |  |      |                |                 |         |                         |                     |                 |                     |                    |       |                  |
| 52<br>SS           | 24<br>24                        | 7<br>15<br>13<br>16 | 104<br>105    | Same as above.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.75<br>tsf |       |                  |
|                    |                                 |                     | 106           |  |      |                |                 |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 |                     | 107           |  |      |                |                 |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 |                     | 108           |  |      |                |                 |         |                         |                     |                 |                     |                    |       |                  |
| 53<br>SS           | 24<br>24                        | 8<br>11<br>13<br>14 | 109<br>110    | Same as above.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 3.25<br>tsf |       |                  |
|                    |                                 |                     | 111           |  |      |                |                 |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 |                     | 112           |  |      |                |                 |         |                         |                     |                 |                     |                    |       |                  |

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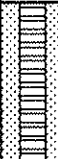






| Sample             |                                 | Blow Counts          | Depth In Feet     | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit  | USCS | Graphic<br>Log | Well<br>Diagram | PID/FID | Soil Properties         |                     |                 |                     |   | RQD/<br>Comments |
|--------------------|---------------------------------|----------------------|-------------------|--|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|---|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |                      |                   |  |      |                |                 |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200   |                  |
| 54<br>SS           | 24<br>24                        | 7<br>12<br>16<br>18  | 113<br>114<br>115 | Same as above.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.75<br>tsf  |                  |
| 55<br>SS           | 24<br>24                        | 6<br>10<br>17<br>18  | 119<br>120        | Same as above.   | CL   |                |                 |         |                         |                     |                 |                     | p.p. = 2.5 tsf  |                  |
| 56<br>SS           | 24<br>0                         | 20<br>28<br>51       | 124<br>125        | No recovery - pushed a rock.   |      |                |                 |         |                         |                     |                 |                     |   |                  |
| 57<br>SS           | 24                              | 18<br>30<br>55<br>68 | 129<br>130<br>131 | Same as above.<br><b>SILTY SAND WITH GRAVEL (SM),<br/>20% to 30% fines, fine to coarse sand,<br/>fine to coarse gravel, 10YR 5/1 gray, no<br/>odor, wet. (Outwash)</b> | SM   |                |                 |         |                         |                     |                 | 21.9                | Lab<br>Classification<br>= Silty Sand<br>with Gravel<br>(SM)<br>LL = NV; PI<br>= NP |                  |

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Boring Number **MW302C**

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| Sample             |                                 | Blow Counts | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit | USCS | Graphic<br>Log  | Well<br>Diagram   | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |                                     |
|--------------------|---------------------------------|-------------|---------------|---|------|---|---|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|-------------------------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |             |               |   |      |   |   |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |                                     |
|                    |                                 |             | 133           |   | SM   |  |  |         |                         |                     |                 |                     |       |                  |                                     |
|                    |                                 |             | 134           | <b>DOLOMITE, weathered.</b>   |      |  |  |         |                         |                     |                 |                     |       |                  | Driller notes<br>weathered<br>rock. |
|                    |                                 |             | 135           |   |      |  |  |         |                         |                     |                 |                     |       |                  |                                     |
|                    |                                 |             | 136           |   |      |  |  |         |                         |                     |                 |                     |       |                  |                                     |
|                    |                                 |             | 137           | <b>End of boring at 137.0 feet.</b>                                 |      |   |   |         |                         |                     |                 |                     |       |                  |                                     |

Boring Number **MW301C** Use only as an attachment to Form 4400-122.

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| Sample             |                                 | Blow Counts         | Depth In Feet                   | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit  | U S C S  | Graphic<br>Log | Well<br>Diagram | PID/FID | Soil Properties         |                     |                 |  |       | RQD/<br>Comments |
|--------------------|---------------------------------|---------------------|---------------------------------|--|----------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|--|-------|------------------|
| Number<br>and Type | Length Alt. &<br>Recovered (in) |                     |                                 |  |          |                |                 |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index  | P 200 |                  |
| 54<br>SS           | 24<br>24                        | 9<br>9<br>11<br>14  | 113<br>114<br>115<br>116        | <b>SILTY LEAN CLAY (CL)</b> , few very thin silt seams, plastic, 10YR 4/3 brown, moist, very stiff.  | CL       |                |                 |         |                         |                     |                 | p.p. = 3.25<br>tsf   |       |                  |
| 55<br>SS           | 24<br>20.4                      | 7<br>6<br>4<br>8    | 120<br>121                      | <b>SILTY LEAN CLAY (CL)</b> , with silt seams, trace gravel, plastic, 10YR 5/1 gray, moist, very stiff.  | CL       |                |                 |         |                         |                     |                 | p.p. = 3.25<br>tsf   |       |                  |
| 56<br>SS           | 24<br>20.4                      | 17<br>6<br>10<br>12 | 125<br>126<br>127<br>128<br>129 | <b>SILTY SAND WITH GRAVEL (SM)</b> , coarse sand, gray.<br><b>SILTY LEAN CLAY (CL)</b> , trace medium to coarse sand, plastic, 10YR 5/1 gray, moist, very stiff. | SM<br>CL |                |                 |         | 28                      | 13                  | 90.9            | Lab<br>Classificatic<br>= Lean Clay<br>(CL)<br>Driller<br>reports<br>gravel at 12-<br>feet.<br>p.p. = 4.0 ts |       |                  |
|                    |                                 |                     |                                 | <b>End of boring at 129.5 feet.</b>  |          |                |                 |         |                         |                     |                 |  |       |                  |

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

|   |                               |   |  |   |  |
|---|-------------------------------|---|--|---|--|
| Facility/Project Name<br><b>Veolia Emerald Park Landfill Expansion</b>  |                               | License/Permit/Monitoring Number<br><b>3290</b> |  | Boring Number<br><b>MW303C</b>              |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>John Carlson<br/>STS</b>   |                               | Date Drilling Started<br><b>1/9/2007</b>        |  | Date Drilling Completed<br><b>1/17/2007</b> |  |
| Drilling Method<br><b>Mud Rotary</b>  |                               |   |  |   |  |
| WI Unique Well No.<br><b>PA415</b>  | DNR Well ID No.<br><b>200</b> | Common Well Name<br><b>MW303C</b>               | Final Static Water Level<br><b>Feet MSL</b>  | Surface Elevation<br><b>777.5 Feet MSL</b>  | Borehole Diameter<br><b>6.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>313,334 N, 2,513,894 E S/C/N</b> |                               |   | Local Grid Location<br>Lat _____ " <input type="checkbox"/> N <input type="checkbox"/> E<br>Long _____ " <input type="checkbox"/> S <input type="checkbox"/> W |   |  |
| 1/4 of <b>1/4 of Section 36, T 5 N, R 20 E</b>  |                               | Facility ID<br><b>268244130</b>                 |  | County<br><b>Waukesha</b>                   | County Code<br><b>68</b>               |
|   |                               | Civil Town/City/ or Village<br><b>Muskego</b>   |  |   |  |

| 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<br>SS                | 24<br>10.8                   | 1<br>3<br>5<br>4   | 1             | <b>GRASS AND TOPSOIL</b>   |      |             |              |         |                      |                  |              |                  |       |               | p.p. = 1.75 tsf |
|                        |                              |                    | 1             | <b>SILTY SAND WITH GRAVEL (SM), with clay, medium to coarse sand, 10YR 7/4 very pale brown, moist.</b>                             | SM   |             |              |         |                      |                  |              |                  |       |               |                 |
| 2<br>SS                | 24<br>19.2                   | 1<br>3<br>4<br>5   | 2             | <b>SILTY LEAN CLAY (CL), trace medium to coarse sand, plastic, 10YR 5/4 yellowish brown, orange mottling, moist, stiff. (Till)</b> |      |             |              |         |                      |                  |              |                  |       |               | p.p. = 2.0 tsf  |
|                        |                              |                    | 3             |  |      |             |              |         |                      |                  |              |                  |       |               |                 |
| 3<br>SS                | 24<br>21.6                   | 2<br>4<br>6<br>9   | 4             | Same as above, but no mottling.  |      |             |              |         |                      |                  |              |                  |       |               | p.p. = 3.5 tsf  |
|                        |                              |                    | 5             |  |      |             |              |         |                      |                  |              |                  |       |               |                 |
| 4<br>SS                | 24<br>24                     | 3<br>6<br>8<br>11  | 6             | Same as above.   |      |             |              |         |                      |                  |              |                  |       |               | p.p. = 4.5 tsf  |
|                        |                              |                    | 7             |  | CL   |             |              |         |                      |                  |              |                  |       |               |                 |
| 5<br>SS                | 24<br>24                     | 4<br>8<br>10<br>11 | 8             | Same as above, but less sand.  |      |             |              |         |                      |                  |              |                  |       |               | p.p. = 3.5 tsf  |
|                        |                              |                    | 9             |  |      |             |              |         |                      |                  |              |                  |       |               |                 |
| 6<br>SS                | 24<br>24                     | 4<br>5<br>6<br>7   | 10            | Same as above, to 11.5 feet.   |      |             |              |         |                      |                  |              |                  |       |               | p.p. = 2.5 tsf  |
|                        |                              |                    | 11            |  |      |             |              |         |                      |                  |              |                  |       |               |                 |
|                        |                              |                    | 12            | <b>SILTY LEAN CLAY (CL), plastic, 10YR</b>   |      |             |              |         |                      |                  |              |                  |       |               |                 |

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





















|                                    |   |  |
|------------------------------------|---|--|
| Signature<br><i>Thomas E. Kiel</i> | Firm<br><b>RMT, Inc.</b><br>744 Heartland Trail Madison, WI 53717 | Tel: (608) 831-4444<br>Fax: (608) 831-3334 |
|------------------------------------|---|--|

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.

Boring Number **MW303C**

Use only as an attachment to Form 4400-122.

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| Sample             |                                 | Blow Counts | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit           | USCS | Graphic<br>Log  | Well<br>Diagram  | PID/FID | Soil Properties         |                     |                 |                     |                    | RQD/<br>Comments  |
|--------------------|---------------------------------|-------------|---------------|---|------|---|--|---------|-------------------------|---------------------|-----------------|---------------------|--------------------|---|
| Number<br>and Type | Length Att. &<br>Recovered (in) |             |               |   |      |   |  |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200              |   |
| 7<br>SS            | 24                              | 2           | 12            | 5/1 gray, moist, soft.<br>Same as above.                                      |      |  |  |         |                         |                     |                 |                     | p.p. = 0.5 tsf     |   |
|                    | 24                              | 4           | 13            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    | 24                              | 6           | 14            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    | 24                              | 6           | 15            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
| 8<br>SS            | 24                              | 4           | 14            | Same as above.  |      |  |  |         |                         |                     |                 | p.p. = 2.0 tsf      |                    |   |
|                    | 24                              | 4           | 15            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    | 24                              | 5           | 16            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
| 9<br>SS            | 24                              | 2           | 16            | Same as above.  |      |  |  |         |                         |                     | 50              | 25                  | 99.9               | Lab<br>Classification<br>= Fat Clay<br>(CH)<br>p.p. = 1.5 tsf |
|                    | 24                              | 2           | 17            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    | 24                              | 3           | 18            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    | 24                              | 4           | 19            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
| 10<br>SS           | 24                              | 2           | 18            |   |      |  |  |         |                         |                     |                 |                     | p.p. = 1.25<br>tsf |   |
|                    | 24                              | 2           | 19            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    | 24                              | 3           | 20            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    | 24                              | 4           | 21            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
| 11<br>SS           | 24                              | 1           | 20            | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR<br>5/1 gray, moist, medium stiff. |      |  |  |         |                         |                     |                 |                     | p.p. = 1.0 tsf     |   |
|                    | 21.6                            | 2           | 21            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 3           | 22            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 4           | 23            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
| 12<br>SS           | 24                              | 2           | 22            | Same as above, soft.  | CL   |  |  |         |                         |                     |                 |                     | p.p. = 0.25<br>tsf |   |
|                    | 12                              | 2           | 23            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 4           | 24            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 4           | 25            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
| 13<br>SS           | 24                              | 1           | 24            | Same as above, medium stiff.  |      |  |  |         |                         |                     |                 |                     | p.p. = 1.0 tsf     |   |
|                    | 24                              | 2           | 25            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 3           | 26            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 3           | 27            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
| 14<br>SS           | 24                              | WOH         | 26            | Same as above.  |      |  |  |         |                         |                     |                 |                     | p.p. = 1.0 tsf     |   |
|                    | 24                              | 2           | 27            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 3           | 28            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
| 15<br>SS           | 24                              | 2           | 28            | Same as above.  |      |  |  |         |                         |                     |                 |                     |                    |   |
|                    | 24                              | 2           | 29            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 3           | 30            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 4           | 31            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
| 16<br>SS           | 24                              | 2           | 30            | Same as above.  |      |  |  |         |                         |                     |                 |                     |                    |   |
|                    | 12                              | 3           | 31            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 4           | 32            |   |      |   |  |         |                         |                     |                 |                     |                    |   |
|                    |                                 | 4           | 32            |   |      |   |  |         |                         |                     |                 |                     |                    |   |

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| Sample             |                                 | Blow Counts          | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit      | USCS | Graphic<br>Log | Well<br>Diagram | PID/FID | Soil Properties         |                     |                 |                     |                    | RQD/<br>Comments |
|--------------------|---------------------------------|----------------------|---------------|--|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|--------------------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |                      |               |  |      |                |                 |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200              |                  |
| 17<br>SS           | 24<br>24                        | 2<br>2<br>4<br>4     | 33            | Same as above.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.5 tsf     |                  |
| 18<br>SS           | 24<br>24                        | 2<br>3<br>5<br>5     | 34<br>35      | Same as above, sample disturbed.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.0 tsf     |                  |
| 19<br>SS           | 24<br>12                        | 2<br>4<br>4<br>6     | 36<br>37      | Same as above.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.0 tsf     |                  |
| 20<br>SS           | 24<br>24                        | 2<br>3<br>5<br>5     | 38<br>39      | Same as above.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.75<br>tsf |                  |
| 21<br>SS           | 24<br>24                        | 2<br>2<br>3<br>4     | 40<br>41      | Same as above.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 1.25<br>tsf |                  |
| 22<br>SS           | 24<br>24                        | 2<br>3<br>4<br>5     | 42<br>43      | Same as above.   | CL   |                |                 |         |                         |                     |                 |                     | p.p. = 1.5 tsf     |                  |
| 23<br>SS           | 24                              | WOH<br>4<br>10<br>14 | 44<br>45      | Same as above.   |      |                |                 |         |                         |                     |                 |                     |                    |                  |
| 24<br>SS           | 24<br>24                        | 7<br>9<br>10<br>13   | 46<br>47      | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR 5/1 gray, moist, very stiff. |      |                |                 |         |                         |                     |                 |                     | p.p. = 2.5 tsf     |                  |
| 25<br>SS           | 24<br>24                        | 4<br>7<br>7<br>10    | 48<br>49      | Same as above, hard.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 4.5 tsf     |                  |
| 26<br>SS           | 24<br>24                        | 4<br>5<br>7<br>8     | 50<br>51      | Same as above, very stiff.   |      |                |                 |         |                         |                     |                 |                     | p.p. = 3.0 tsf     |                  |

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| Sample             |                                 | Blow Counts | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit         | USCS | Graphic<br>Log  | Well<br>Diagram  | PID/FID | Soil Properties         |                     |                 |                     |                    | P 200 | RQD/<br>Comments |
|--------------------|---------------------------------|-------------|---------------|---|------|---|--|---------|-------------------------|---------------------|-----------------|---------------------|--------------------|-------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |             |               |   |      |   |  |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index |                    |       |                  |
| 27<br>SS           | 24                              | 4           |               | Same as above, stiff.   |      |  |  |         |                         |                     |                 |                     | p.p. = 1.5 tsf     |       |                  |
|                    | 24                              | 7           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 7           | 53            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 28<br>SS           | 24                              | 2           | 54            | Same as above, very stiff.  |      |  |  |         |                         |                     |                 |                     | p.p. = 2.5 tsf     |       |                  |
|                    | 24                              | 4           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 6           | 55            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 29<br>SS           | 24                              | 3           | 56            | Same as above, very stiff.  |      |  |  |         |                         |                     |                 |                     | p.p. = 3.0 tsf     |       |                  |
|                    | 24                              | 5           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 7           | 57            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 30<br>SS           | 24                              | 6           | 58            | Same as above, trace medium sand, hard.                                     |      |  |  |         |                         |                     |                 |                     | p.p. > 4.5 tsf     |       |                  |
|                    | 24                              | 13          |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 20          | 59            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 31<br>SS           | 24                              | 6           | 60            | Same as above, no sand, very stiff.   |      |  |  |         |                         |                     |                 |                     | p.p. = 3.0 tsf     |       |                  |
|                    | 24                              | 9           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 12          | 61            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 32<br>SS           | 24                              | 4           | 62            | Same as above.  | CL   |  |  |         |                         |                     |                 |                     | p.p. = 3.0 tsf     |       |                  |
|                    | 24                              | 7           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 7           | 63            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 33<br>SS           | 24                              | 3           | 64            | Same as above.  |      |  |  |         |                         |                     |                 |                     | p.p. = 2.5 tsf     |       |                  |
|                    | 24                              | 5           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 8           | 65            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 34<br>SS           | 24                              | 6           | 66            | Same as above.  |      |  |  |         |                         |                     |                 |                     | p.p. = 3.0 tsf     |       |                  |
|                    | 24                              | 9           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 8           | 67            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 35<br>SS           | 24                              | 3           | 68            | Same as above.  |      |  |  |         |                         |                     |                 |                     | p.p. = 3.0 tsf     |       |                  |
|                    | 24                              | 4           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 5           | 69            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
| 36<br>SS           | 24                              | 3           | 70            | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR<br>5/1 gray, moist, very stiff. |      |  |  |         |                         |                     |                 |                     | p.p. = 2.75<br>tsf |       |                  |
|                    | 24                              | 6           |               |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    | 24                              | 8           | 71            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |
|                    |                                 |             | 72            |   |      |   |  |         |                         |                     |                 |                     |                    |       |                  |





















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| Sample             |                                 | Blow Counts | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit | USCS | Graphic<br>Log  | Well<br>Diagram  | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |  |  |    |   |  |  |  |  |  |  |  |  |                |
|--------------------|---------------------------------|-------------|---------------|---|------|---|--|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|--|--|----|---|--|--|--|--|--|--|--|--|----------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |             |               |   |      |   |  |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 37<br>SS           | 24                              | 3           | 73            | Same as above, trace gravel.  | CL   |  |  |         |                         |                     |                 | 31                  | 14    | 89.4             | p.p. = 2.5 tsf<br>Lab<br>Classification<br>= Lean Clay<br>(CL) |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 4           | 74            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 6           | 75            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 8           | 76            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 38<br>SS           | 24                              | 3           | 77            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  | Same as above, no gravel.                  | CL |  |  |  |  |  |  |  |  |  | p.p. = 4.0 tsf |
|                    | 24                              | 7           | 78            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 10          | 79            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 39<br>SS           | 24                              | 3           | 80            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  | Same as above, with occasional silt seams. | CL |  |  |  |  |  |  |  |  |  | p.p. = 3.0 tsf |
|                    | 24                              | 5           | 81            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 8           | 82            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 40<br>SS           | 24                              | 15          | 83            | Same as above, no silt seams, hard.                                 | CL   |  |  |         |                         |                     |                 |                     |       |                  | p.p. > 4.5 tsf   |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 6           | 84            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 13          | 85            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 41<br>SS           | 24                              | 17          | 86            | Same as above, hard.  | CL   |  |  |         |                         |                     |                 |                     |       |                  | p.p. > 4.5 tsf   |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 13.2                            | 14          | 87            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    |                                 | 14          | 88            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 42<br>SS           | 24                              | 15          | 89            | Same as above.  | CL   |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 4.25<br>tsf   |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 5           | 90            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 9           | 91            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 43<br>SS           | 24                              | 12          | 92            | Same as above, trace gravel.  | CL   |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 3.5 tsf   |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 5           | 93            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 7           | 94            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 44<br>SS           | 24                              | 10          | 95            | Same as above, trace gravel.  | CL   |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 3.5 tsf   |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 8           | 96            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 9           | 97            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 45<br>SS           | 24                              | 11          | 98            | Same as above.  | CL   |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 3.0 tsf   |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 8           | 99            |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 12          | 100           |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
| 46<br>SS           | 24                              | 12          | 101           | Same as above.  | CL   |  |  |         |                         |                     |                 |                     |       |                  | p.p. = 4.5 tsf   |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 4           | 102           |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 11          | 103           |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 16          | 104           |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |
|                    | 24                              | 24          | 105           |   |      |   |  |         |                         |                     |                 |                     |       |                  |  |  |    |   |  |  |  |  |  |  |  |  |                |

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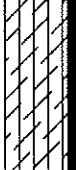

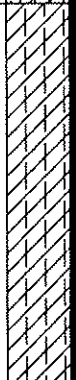




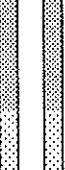
| Sample             |                                 | Blow Counts | Depth In Feet | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit                  | U S C S | Graphic<br>Log | Well<br>Diagram | PID/FID | Soil Properties         |                     |                 |                     |                | RQD/<br>Comments |
|--------------------|---------------------------------|-------------|---------------|--|---------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|----------------|------------------|
| Number<br>and Type | Length Att. &<br>Recovered (in) |             |               |  |         |                |                 |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200          |                  |
| 47<br>SS           | 24                              | 9           | 93            | Same as above.   |         |                |                 |         |                         |                     |                 |                     | p.p. > 4.5 tsf |                  |
|                    | 24                              | 10          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 19                              | 19          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 22                              | 22          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
| 48<br>SS           | 24                              | 8           | 94            | Same as above.   |         |                |                 |         |                         |                     |                 |                     | p.p. > 4.5 tsf |                  |
|                    | 24                              | 14          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 25                              | 28          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
| 49<br>SS           | 24                              | 8           | 96            | <b>SILTY LEAN CLAY (CL)</b> , same as above, plastic, 10YR 5/1 gray, moist. (Till)   |         |                |                 |         |                         |                     |                 |                     | p.p. = 4.5 tsf |                  |
|                    | 24                              | 16          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 20                              | 20          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
| 50<br>SS           | 24                              | 5           | 98            | Same as above, trace gravel.   | CL      |                |                 |         |                         |                     |                 |                     | p.p. = 4.5 tsf |                  |
|                    | 24                              | 11          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 17                              | 18          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
| 51<br>SS           | 24                              | 6           | 100           | Same as above, trace gravel  |         |                |                 |         |                         |                     |                 |                     | p.p. = 1.5 tsf |                  |
|                    | 24                              | 11          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 15                              | 20          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
| 52<br>SS           | 24                              | 7           | 102           | Same as above, trace gravel, with small silt seam.                                   |         |                |                 |         |                         |                     |                 |                     | p.p. > 4.5 tsf |                  |
|                    | 24                              | 7           |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 16                              | 29          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
| 53<br>SS           | 24                              | 13          | 107           | <b>SILT (ML)</b> , some lean clay, slightly plastic, 10YR 5/1 gray, moist. (Fluvial) | ML      |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 24                              | 19          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 22                              | 22          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 30                              | 30          |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    |                                 | 108         |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 109                             |             |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 110                             |             |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 111                             |             |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |
|                    | 112                             |             |               |  |         |                |                 |         |                         |                     |                 |                     |                |                  |

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| Sample             |                                 | Blow Counts          | Depth In Feet            | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit   | U S C S | Graphic<br>Log   | Well<br>Diagram   | PID/FID | Soil Properties         |                     |                 |                     |                | RQD/<br>Comments |
|--------------------|---------------------------------|----------------------|--------------------------|---|---------|--|---|---------|-------------------------|---------------------|-----------------|---------------------|----------------|------------------|
| Number<br>and Type | Length Alt. &<br>Recovered (in) |                      |                          |   |         |  |   |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200          |                  |
| 54<br>SS           | 24<br>24                        | 15<br>18<br>20<br>20 | 113<br>114<br>115<br>116 | <b>SILT (ML)</b> , trace lean clay, non-plastic,<br>10YR 5/1 gray, moist. (Fluvial)                                       | ML      |    |    |         |                         |                     |                 |                     |                |                  |
| 55<br>SS           | 24<br>24                        | 5<br>9<br>10<br>11   | 119<br>120<br>121<br>122 | <b>SILTY LEAN CLAY (CL)</b> , plastic, 10YR<br>5/1 gray, moist, very stiff. (Till)  | CL      |   |   |         |                         |                     |                 |                     | p.p. = 4.0 tsf |                  |
| 56<br>SS           | 24<br>24                        | 23<br>29<br>30<br>24 | 125<br>126               | Same as above, with trace gravel, silt seam.  |         |  |  |         |                         |                     |                 |                     | p.p. = 4.0 tsf |                  |
| 57<br>SS           | 24<br>24                        | 29<br>33<br>27<br>62 | 130<br>131               | <b>SILTY SAND (SM)</b> , very fine sand, with<br>sandy silt layers, trace clay, 10YR 5/1 gray,<br>moist to wet. (Outwash) | SM      |  |  |         |                         |                     |                 |                     |                |                  |

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| Sample             |                                 | Blow Counts          | Depth In Feet                                 | Soil/Rock Description<br>And Geologic Origin For<br>Each Major Unit | U S C S | Graphic<br>Log | Well<br>Diagram | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments   |
|--------------------|---------------------------------|----------------------|---|---|---------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|--|
| Number<br>and Type | Length Att. &<br>Recovered (in) |                      |   |   |         |                |                 |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |  |
| 58<br>SS           | 19.2<br>10.8                    | 33<br>49<br>50/5"    | 133<br>134<br>135<br>136<br>137<br>138<br>139 | <b>SILTY SAND (SM), same as above.</b>                              |         |                |                 |         |                         |                     | 15              |                     | 78.7  | PI = NP<br>Lab<br>Classification<br>= Silt with<br>Sand (ML) |
| 59<br>SS           | 24<br>24                        | 29<br>25<br>31<br>30 | 140<br>141<br>142                             | Same as above.  | SM      |                |                 |         |                         |                     |                 |                     |       | Drill to 140<br>feet and<br>sample.                          |
| 142                |                                 |                      |   | <b>End of boring at 142.0 feet.</b>                                 |         |                |                 |         |                         |                     |                 |                     |       |  |

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