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October 29, 2012

AECOM 200 Indiana Avenue Stevens Point, WI 54481 NTS Project No. 15366\_STR

Attention: Mr. Kyle Wagoner

kyle.wagoner@aecom.com

**Subject:** Subsurface Soil Investigation Report

**East Park Commerce Center** 

**Certified Site Program** 

762-Acre Site Stevens Point, WI

As requested, Nummelin Testing Services, Inc. has conducted a Geotechnical Engineering Subsurface Investigation and Report for the above named project. We enclose our report, "Subsurface Soil Investigation, East Park Commerce Center, Certified Site Program, 762-Acre Site, Stevens Point, WI – NTS 153.66," which discusses our conclusions and recommendations.

If additional information or clarification is needed, or if we may be of further service during the construction phase of the project, please do not hesitate to contact our office.

The soil samples will be discarded after January 1, 2013, unless other instructions are received prior to that date.

Respectfully,

Benjamin K. Nummelin, P.E.

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NUMMELIN TESTING SERVICES, INC.

bkn/bn

encl. report & logs abandonment forms location sketch

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# SUBSURFACE SOIL INVESTIGATION

EAST PARK COMMERCE CENTER
CERTIFIED SITE PROGRAM
762-ACRE SITE
STEVENS POINT
WISCONSIN

NTS 153.66

C12044

# PREPARED FOR:

AECOM 200 INDIANA AVENUE STEVENS POINT, WI 54481

ATTENTION: MR. KYLE WAGONER

FIELD INVESTIGATION BY:

NUMMELIN TESTING SERVICES, INC. STEVENS POINT / WAUNAKEE, WI

OCTOBER 29, 2012

#### SUBSURFACE SOIL INVESTIGATION

# EAST PARK COMMERCE CENTER CERTIFIED SITE PROGRAM 762-ACRE SITE STEVENS POINT WISCONSIN

#### 1. SUMMARY

This section contains summary information only and is limited in detail. Recommendations given in following report sections should be reviewed prior to design and construction.

As requested, Nummelin Testing Services, Inc. (NTS) performed a subsurface soil investigation with 20 borings, each to a depth of 20 feet, at the above-named site to provide general subsurface information. Additional investigation is recommended for individual building sites to provide more site-specific information.

In general, the soils encountered in the borings on the 762-acre site were sands that appeared suitable for commercial development after typical site preparation such as topsoil stripping, vegetation grubbing, and site grading. A site-specific investigation is recommended to determine bearing capacity at individual sites and suitability for pavement support, but the native sands are expected to have a bearing capacity between 2,500 and 4,000 pounds per square foot (psf) for footings 6 feet in width or less and a modulus of subgrade reaction of 150 to 300 pounds per square inch per inch.

Some borings found clayey sands and sands with some silt in the top 3.5 to 9 feet which likely will be suitable for use in infiltration device construction. However, sands at deeper depths contained little or no silt and likely will not be adequate for infiltration device construction.

Groundwater was encountered generally below depths of 13.5 feet. However, in the absence of irrigation, long term water levels may be significantly higher than those encountered during boring. Bedrock is not expected to be encountered in excavations within the boring limits.

The sands encountered in the borings should be suitable for reuse as structural fill if they are not too wet for compaction at the time of construction. Some sands encountered in the top 3.5 to 9 feet contained significant amounts of silts/clays, and obtaining good compaction of these sands will be more difficult. The silty/clayey sands may be better suited for use as fill in 'green' areas rather than in structural areas.

Most surface and near-surface soils will become soft if they are wet when exposed to construction traffic. A layer of crushed rock placed in driveways and staging areas may help to avoid subgrade disturbance and prevent construction delays because of muddy, impassible terrain.

Some near surface soils will retain water for periods of days to weeks. The site should be graded to promote drainage including positive drainage away from buildings and rain gutters to route roof runoff away from buildings. A pavement cross-slope of two percent is recommended to promote drainage in paved areas. All drainage measures should be routed to a suitable outlet.

#### 2. INTRODUCTION

Nummelin Testing Services, Inc. (NTS) performed this investigation for the purpose of providing soils information for the 762-acre site that is to be East Park Commerce Center located from CTH 'HH' to the railroad tracks roughly one mile north of CTH 'HH, and from roughly 1,200 feet east of Brilowski Road to Burbank Road in the Town of Hull, Town of Plover, Town of Stockton, and City of Stevens Point, Portage County, Wisconsin. The results and recommendations reported are based upon information obtained during a field investigation with borings and the geotechnical analysis of that information.

The conclusions and recommendations reported are based on our interpretation of available subsurface and project information. The report may not represent variations that occur between or away from boring locations.

Should the scope of this project be altered, or if subsurface variations become evident during construction, it may be necessary to modify our recommendations. See the attached Geotechnical Engineering Report Information sheet for general information on NTS's geotechnical reports.

#### 3. PROJECT DESCRIPTION

The proposed project is the future development of the project area. Construction details were not known at the time of this report. However, slab-on-grade warehouse-type buildings supported by shallow foundations, parking lots, driveways, access roads, and infiltration devices are expected to be constructed. Some site grading is anticipated to establish final grades.

At the time of the investigation, the site was predominantly farm fields, some which had been tilled and planted. The site sloped gently downward from east to west and from north to south.

#### 4. FIELD INVESTIGATION

Twenty borings were performed from October 15 to 23, 2012, at the locations shown on the attached map. NTS determined the proposed boring locations and depths. NTS also located the borings in the field. Some borings were moved from proposed locations because of access problems as a result of crops on fields. All borings were drilled approximately at the proposed locations and were terminated at the proposed depth of 20 feet.

Standard penetration sampling was performed during boring according to ASTM Test Procedure D1586 at the depths indicated on the boring logs with an automatic-trip hammer. Drilling between samples was by the hollow-stem-auger technique. Soil samples taken from the site have been examined in the lab by this writer to verify soil descriptions. Soil classifications and parameters reported are based on field testing, soil descriptions, and the results of 15 gradation tests on samples selected by NTS. The gradation tests were performed by mechanical sieving according to ASTM D422 after washing the samples according to ASTM D1140. No other lab tests were performed. Gradation test results are appended.

Ground elevations are to be determined by Point of Beginning, Inc.

After completion of the borings, the bore holes were backfilled with bentonite chips to comply with WDNR requirements, and the last few inches were filled with auger cuttings.

Copies of the soil boring logs and a location sketch are appended to this report.

#### 5. SUBSURFACE CONDITIONS

# 5. 1. Area Geology

The subsoils in this area are mapped as outwash deposits, which typically consist of stratified sand and/or stratified sand with gravel. The underlying bedrock is mapped as granite and quartz monzonite that is present at widely varying depths, but generally at depths of greater than 50 feet below the average surface terrain. The NRCS web soil survey maps the near surface soils at the site primarily as Billett sandy loam and Richford loamy sand, with small areas of Oesterle sandy loam, Pearl loamy sand, Rosholt sandy loam, and Rosholt loam.

Mapped soil and bedrock conditions are provided for supporting information only. We do not recommend basing any design on mapped or assumed conditions.

# 5. 2. Soils at the Boring Locations

A summary of soil conditions encountered in the borings is shown in Table 5. 2.

<i>Table 5. 2.</i>	Summary	of	Cubcur	face	Conditions	in	the B	Parinas
1 avie 5. 2.	<i>Summary</i>	υį	Subsui	juce	Conamons	$\iota r\iota$	me D	oorings.

Boring	Water Depth	Topsoil Depth	Sand w Silt/Clay	Sand w Little/No Silt	Boring	Water Depth	Topsoil Depth	Sand w Silt/Clay	Sand w Little/No Silt
1	9'	10"	-	10"- 20'	11	14'	8"	8"- 3.5"	3.5'- 20'
2	14.5'	12"	12"- 3.5"	3.5'- 20'	12	14.5'	5"	5"- 3.5'	3.5'- 20'
3	14'	8"	-	8"- 20'	13	15'	8"	8"- 3.5'	3.5'- 20'
4	17'	8"	8"- 3.5"	3.5'- 20'	14	17.5'	6"	1	6"- 20'
5	14.5'	10"	-	10"- 20'	15	14'	9"	-	9"- 20'
6	13.5'	12"	-	12"- 20'	16	14'	7"	ı	7"- 20'
7	17.5'	11"	11"- 6'	6'- 20'	17	14.5'	7"	ı	7"- 20'
8	14'	10"	10"- 3.5"	3.5'- 20'	18	14'	8"	8"- 9'	9'- 20'
9	17'	12"	-	12"- 20'	19	17.5'	10"	10"- 3.5"	3.5'- 20'
10	18'	8"	8"- 3.5'	3.5'- 20'	20	17'	8"	8"- 3.5'	3.5'- 20'

Dark brown silty sand with organics (topsoil), 5 to 12 inches in thickness, was encountered at all boring locations. Below the topsoil, most soil encountered was loose to medium-dense poorly-graded sand with varying amounts of gravel. Sands encountered in the top 3.5 feet of Borings 2, 4, 7, 8, 10 through 13, 19, and 20, in the top 6 feet of Boring 7, and the top 9 feet of Boring 18 where clayey sands and sands with some silt. Sands elsewhere and at deeper depths contained little or no silt. The sand was generally brown in the top 3.5 to 9 feet and light brown at deeper depths. All borings were terminated at a depth of 20 feet.

See the boring logs for more detailed soil descriptions.

#### 5. 3. Water Level Measurements

Groundwater was encountered in all borings, generally at depths of 13.5 to 18 feet, except in Boring 1 where groundwater was encountered at 9 feet. These moisture conditions should be considered as representative of the site at the time of boring only. It is possible that irrigation has lowered the groundwater table at this site, and long-term groundwater levels may be significantly higher than those encountered in the borings. Expect seasonal fluctuations in the groundwater table of up to several feet.

#### 6. DISCUSSION AND RECOMMENDATIONS

# 6. 1. Site Grading and Preparation

Strip the topsoil and vegetation, including tree and brush roots, from proposed structure and pavement areas prior to further site grading. The topsoil is likely to compress, probably unevenly below structures, and should be removed.

After the site has been stripped of topsoil and grubbed, the site may be filled to final grades. The sands should be suitable for reuse as structural fill if they are not too wet at the time of construction. Some sands contained appreciable amounts of silt and clay in the top 3.5 to 6 feet that may be better suited for use as fill in 'green' areas rather than in structural areas.

Most surface and near-surface soils will become soft if they are wet when exposed to construction traffic. A layer of crushed rock placed in driveways and staging areas may help to avoid subgrade disturbance and prevent construction delays because of muddy, impassible terrain.

#### 6. 2. Foundations

Foundations for structures sensitive to frost movement should bear below the frost line. For building construction purposes, the frost line should be considered to be 4 feet below the ground surface.

The native sands are expected to provide adequate support for spread/strip footings. After footing excavations are made, verify that the soils at the base of the excavation are not too wet for compaction, then compact the base of the excavations with a high energy, vibratory compactor such as with a vibratory plate mounted on a backhoe or with a smooth-drum, vibratory roller weighing 10,000 pounds or more. A site-specific investigation is recommended to determine bearing capacity at individual sites, but the native sands are expected to have a bearing capacity between 2,500 and 4,000 pounds per square foot (psf) for footings 6 feet in width or less.

The bearing capacity of the soils on which foundations will rest should be field verified at the time of construction by NTS. NTS will provide alternate recommendations, including undercutting or compacting existing soils, if adequate bearing capacity is not present.

If the recommendations in this report are followed, settlement of footing foundations are expected to be limited to one inch.

#### 6. 3. Floors and Slabs

The native sands below the topsoil are expected to provide adequate support for floors and slabs-on-grade. After floor excavations are made, verify that the soils at the base of the excavation are not too wet for compaction, then compact the base of the excavations with a high energy, vibratory compactor such as with a vibratory plate mounted on a backhoe or with a smooth-drum, vibratory roller weighing 10,000 pounds or more. A site-specific investigation is recommended to determine modulus of subgrade reaction, but the native sands are expected to have a modulus of subgrade reaction of 150 to 300 pounds per square inch per inch for floor and slab design.

A layer of 1¼ inch dense-graded base course, at least 8 inches in thickness, is recommended to be placed below floors and slabs. The base course will help to provide stability for the floors/slabs and help to prevent subgrade soils from rutting below construction traffic. The base course should meet the requirements of Section 305 of the Wisconsin DOT Standard Specifications for Highway and Structure Construction, and the base course should be compacted according to Section 6.5 of this report.

#### 6. 4. Excavation

All excavations should comply with OSHA standards. This includes cutting excavation sidewalls at slopes no steeper than 1.5 horizontal to 1 vertical unless the excavation is properly braced. Braced excavations should use full bracing, not spaced braces.

Most common excavators (backhoes) are expected to be able to make the necessary excavations within the boring limits.

Groundwater was encountered in all borings, generally at depths of 13.5 to 18 feet, except in the boring the southwest corner of the site where groundwater was encountered at 9 feet. Expect that excavations near or below these depths to encounter groundwater. Be aware that the site was predominantly farm fields which were irrigated at the time of the investigation, and long term groundwater levels, in the absence of irrigation, may be significantly shallower than those encountered during boring. Where groundwater is encountered, dewater prior to further excavating. Dewater using a method which draws water from outside the excavated area, such as with well points or deep wells placed well outside the excavation. Sump pumping from within the excavation should be avoided because this may loosen the soil below the pumps as water flows upward to the pumps. The very loose soil may compress when the structure is placed over the very loose soil, resulting in settlement and structure damage.

Undercutting is not expected to be necessary. However, should undercutting be required, the recommended width of undercut is twice the undercut depth plus the width of the load-bearing area, measured at the bottom of cut. If the load-bearing area is accurately marked and centered

in the base of the undercut, then the minimum width of the undercut is the depth of undercut plus the width of load-bearing area, measured at the base of the undercut. A good practice is to add at least one foot to this width. Replace all undercut soils with properly compacted fill (see section 6. 5. "Compaction and Fill Requirements"). Use the 60-degree approximation to determine the resulting pressure at the base of the undercut.

Bedrock is not expected to be encountered in excavations within the boring limits.

Excavations should be performed with a flat plate attached to the bucket teeth of the backhoe to minimize the disturbance at the base of the excavation. Where a toothed bucket is used, the last six inches (roughly) should be excavated by turning the bucket so that the teeth are parallel to the proposed grade, thus minimizing the disturbance of footing-grade soils. Any soil loosened during excavation should be compacted.

# 6. 5. Compaction and Fill Requirements

The native soils encountered below the topsoil, if the moisture content is suitable for compaction at the time of construction, should be suitable for reuse as structural fill. Be aware that obtaining adequate compaction of the existing silty and clayey sands will be moisture dependent and may be difficult. It may be better to use the silty/clayey soils in 'green' areas. Where imported fill is required, NTS recommends unsaturated granular soil that has no particles larger than 3 inches, that has less than 15 percent passing the number 200 sieve, and that is free of deleterious substances such as peat, wood, sod, snow, ice, frozen soil, and construction debris. At the time of construction, NTS should verify that the proposed fill soils are acceptable. NTS will verify that the moisture content is appropriate for proper compaction and that the fill contains no deleterious materials. Frozen soil should not be used as structural fill.

Any required fill should be placed in lifts not exceeding 1 foot (uncompacted).

Compact fill placed to at least 95% of the maximum dry density (modified Proctor method - ASTM D-1557). Site or soil conditions at the time of construction may warrant a change in the recommended compaction levels and/or techniques. However, no changes should be made without review by NTS or another qualified soils engineering firm.

Vibratory compaction of soil near or below the water table may cause the soil to become quick (liquefaction) and 'flow'. Prior to compaction of soil near or below the water table, drop the water table at least 2 feet below the exposed grade. Use of light compaction equipment in conjunction with thinner lifts may also help to avoid liquefaction while still achieving the required compaction levels.

# 6. 6. Pavement Design

Pavement design is typically controlled by the near surface soils within the frost zone. Soils encountered within the frost zone at this site ranged from sands with little or no silt to clayey sands and sands with some silt. These sands are moderate to good soil types for pavement design. A site specific investigation is recommended to determine local pavement design parameters. The following are general pavement design parameters based on the most frost susceptible soil type found by the borings, and are the recommended parameters for pavement design in the absence of a site specific soils investigation.

The clayey sands and sands with some silt are moderately frost susceptible with a Frost Group Designation of F-3 and an estimated Design Group Index (DGI) of 10. Based on the DGI, the soil support value (SSV) is 4.5 considering a Regional Factor of 2. The silty/clayey sands are USCS classified as SM and SC and AASHTO classified as A-2-4 and A-2-6. A CBR test was not performed. However, the CBR factor for sands is estimated to be 8. A subgrade modulus of 200 pounds per cubic inch should be used for pavement and slab design on the soils at this site. The sands have a very low shrink/swell potential as a result of moisture loss/gain.

If flexible (asphaltic concrete) pavement is used, the following asphaltic concrete and crushed aggregate base course thicknesses from the "Wisconsin Asphalt Pavement Association Design Guide" are recommended. The thicknesses are based on the expected design daily ESALs (18,000 pound Equivalent Single Axle Loads) for pavement over a 'medium' subgrade. Subgrades with CBRs of 6 to 10 are classified as 'medium' according to the Wisconsin Asphalt Pavement Association Design Guide.

In general, traffic pavements experiencing loads around 1 to 5 design daily ESALs range include car parking lots, residential streets, and similar traffic loads. Pavements experiencing loads in the 6 to 50 design daily ESALs range include collector streets, industrial lots, truck stalls, loading zones, and similar traffic loads. Pavements experiencing loads in the 51 to 275 design daily ESALs range include major service drives or entrances, arterial streets, industrial streets, and similar traffic loads.

# 6. 6. 1. Flexible Pavement, 1 to 5 Design Daily ESALs

Use a minimum of 8 inches of crushed aggregate base course with a minimum of 3 inches of asphaltic concrete.

# 6. 6. 2. Flexible Pavement, 6 to 50 Design Daily ESALs

Use a minimum of 9 inches of crushed aggregate base course with a minimum of 5 inches of asphaltic concrete.

## 6. 6. 3. Flexible Pavement, 51 to 275 Design Daily ESALs

Use a minimum of 11 inches of crushed aggregate base course with a minimum of 7 inches of asphaltic concrete.

If the expected daily traffic loads are greater, plan to increase these thicknesses.

Where heavy trucks will turn or be standing on asphaltic concrete pavement sections, a mix with a very high stability number, designed to withstand the loading of heavy trucks, is recommended. The E-10 Job Mix Formula (JMF), or higher numbered JMF, from the Wisconsin DOT Standard Specifications for Highway and Structure Construction is suggested in such areas.

Rigid (Portland cement concrete - PCC) pavement tends to hold up better than asphaltic concrete under heavy truck traffic and is recommended in areas experiencing high static shear stress or where heavy trucks must make turns. A PCC slab thickness of at least 8 inches is recommended for heavy traffic loads. A slab thickness of at least 6 inches is recommended for other parking areas unless local experience has shown a thinner slab to perform adequately. There is no specified numerical thickness for the base course layer below a PCC slab, but the base course layer should be thick enough to provide stability for the slab.

The pavement construction should meet the requirements of the Wisconsin DOT Standard Specifications for Road and Bridge Construction.

A prime requirement for successful pavement is preparation of the subgrade soil. At the time of base course placement, the subgrade should be firm when proof-rolled. An acceptable proof-roller for silt/clay would be a fully-loaded, tandem-axle dump truck. An acceptable proof-roller for granular soil (sand and/or gravel) would be a smooth-drum vibratory roller. The subgrade may yield slightly to the proof-roller, but after base course placement, the base grade should be unyielding to fully-loaded, tandem-axle, dump trucks. This requirement also applies after the completion of any undercut.

It may be necessary to stabilize areas of the subgrade with crushed rock or breaker run rock to provide stability for pavement. Any rock used to stabilize a soft subgrade should not be considered as part of the base course thickness.

#### 6.7. Drainage

Most near surface soils at the site will retain water for short periods. The site should be graded to promote drainage including positive drainage away from buildings, and rain gutters are recommended to route roof runoff away from buildings. A pavement cross-slope of two percent

is recommended to promote drainage in paved areas. All drainage measures should be routed to a suitable outlet.

The near surface sands which were silty/clayey likely have a permeability coefficient of  $10^{-4}$  centimeters per second or less. The sands containing little silt likely have a permeability coefficient between  $10^{-2}$  and  $10^{-4}$  centimeters per second. The deeper, cleaner sands (sands with less than 5 percent passing the number 200 sieve) have a permeability coefficient greater than  $10^{-2}$  centimeters per second.

Free-draining soil (granular soil with less than 5 percent passing the number 200 sieve) is recommended as backfill against retaining walls above a line drawn up from the base of the retaining wall footing at a 45 degree angle from the horizontal. The backfill against the retaining wall should be drained to prevent the backfill from becoming saturated.

Where drain tile is used at a site, all drain tile should be part of a single drainage system. Several inches of concrete sand or torpedo sand conforming to the specifications of ASTM C33 should be placed as a filter around the drain tile pipe. Drain tile with sock alone tends to rapidly plug up. Although many codes require gravel around drain tile pipe, gravel does not act as a filter and should not be used around the pipe.

#### 6. 8. Soil Parameters

Dry, moist, and submerged unit weights  $(\gamma)$  in pounds per cubic foot, friction angle  $(\phi)$  in degrees, and cohesion (C) in pounds per square foot for the sands encountered in the borings are shown in Table 6. 8. All soil parameters have been estimated based on soil descriptions and standard penetration test values. The values are for moist (non-saturated) soils. The values for the clean sands (sand with less than 5 percent passing the number 200 sieve) and sands with little silt may also be used for clean, imported sand fill.

*Table 6. 8. Estimated Soil Parameters for the Soils Encountered.* 

Soil Description	Dry/Moist/Sbmg Unit Weight (pcf)	Friction Angle (deg)	Cohesion
Clayey Sand & Sand w Some Silt	120 / 130 / 70	28	0+
Clean Sand & Sand w Little Silt	115 / 120 / 65	32	0

The unit weight of concrete is approximately 150 pcf, and the submerged unit weight of concrete is approximately 90 pcf.

#### 6. 9. Corrosion Potential

Any construction materials that will be placed in contact with organic soils should be protected against corrosion.

This project falls into Area 1 of Figure 1, Procedure 13-1-15 of the Wisconsin DOT Facilities Development Manual, which indicates strong potential for corrosion of galvanized steel culvert pipe. Reinforced concrete culvert pipe (preferred) or other corrosion resistant pipe is recommended over galvanized steel pipe.

# 6. 10. Site Classification for Seismic Design

To classify a site for seismic design, the 2009 International Building Code (IBC) requires knowledge of the upper 100 feet of soil. The maximum depth of boring was only 20 feet. Based on standard penetration values, the seismic site class for this site is Site Class 'E' according to Table 1613.5.3 of the 2009 IBC.

However, according to section 1613.5.1 of the International Building Code (IBC), a structure may be assigned to Seismic Design Category 'A' if Figures 1613.5(1) through 1613.5(14) of the IBC show the mapped short period spectral response acceleration ( $S_S$ ) at the building site to be less than 0.15g and the mapped one-second period spectral response acceleration ( $S_1$ ) at the building site to be less than 0.04g. These figures show  $S_S$  to be less than 0.15g and  $S_1$  to be less than 0.04g at the project site. Therefore, although the seismic site class is 'E' for this site, structures to be built at the site may be assigned to Seismic Design Category 'A'.

Respectfully,
Berjanin K Neumnelii

Benjamin K. Nummelin, P.E.

**Nummelin Testing Services, Inc.** 

bkn/cerl/bn

Clifton E.R. Lawson, P.E.

Cliffm ER Lawson mn

**Consulting Engineer** 

# NUMMELIN TESTING SERVICES, INC

### GEOTECHNICAL ENGINEERING REPORT INFORMATION SHEET

Subsurface soil conditions are responsible for many of the construction problems encountered at building sites. In order to help you, our client, manage your risks, we offer you the following information and suggestions.

Geotechnical engineering reports are based on observations of specific soil conditions existing at the time of the subsurface soil investigation. As these conditions may change over time, construction decisions should be made with the timeliness of the report in mind. Further testing may be advisable if subsurface soil conditions are affected by natural events (flooding, spring thaws, etc.) and construction (drilling, blasting, surcharges, etc.) on-site or adjacent to it. Talking to your geotechnical professional before construction begins will help keep one informed if further tests are recommended.

The recommendations included in your geotechnical engineering report are based on a limited number of samples/tests. These recommendations assume that subsurface conditions throughout the site will be similar to those observed. As all recommendations are preliminary when based on limited testing, it is important to have your geotechnical professional observe the actual conditions during construction. This allows him/her to note any differences that may not have been revealed by the limited samples/tests and/or that are more abrupt than reported in the preliminary report. It is this geotechnical professional, using his/her knowledge and familiarity of site history, as well as construction observations, who will be able to determine if there is adequate and appropriate support to consider these recommendations final. He/she will also be able to document that the contractor is following these recommendations. Be aware that this geotechnical professional can not assume responsibility and/or liability for his/her recommendations based on observations and determinations by others.

Professional judgement, based on experience and observations, is at the heart of our geotechnical recommendations. Geotechnical reports use information from a limited number of samples/tests to predict conditions regarding your overall site. No one may say with certainty what subsurface conditions really exist without actual observation. The conditions away from sample/test areas may vary from what is predicted. It is important to identify variations as early as possible. This is why we encourage you to take advantage of our knowledge and experience during the construction phase of your project. Working together we can help minimize the impact when unexpected variations occur.

Geotechnical reports are written for a specific client, purpose, project and set of conditions. They are not intended to be a generalized, generic report for a proposed site. They are for the sole use of our client for the express purpose indicated to us. Should the scope of the project be altered, or if subsurface variations become evident during construction, it may be necessary to modify our recommendations. Early communication with your geotechnical professional can help you avoid expensive problems that may occur when changes to a project's purpose, structure, size, usage, site orientation, elevation, etc. are made after a report is written.

Following these guidelines, your geotechnical subsurface report should provide informed and accurate information to assist in the planning and construction of your project.



#### **BORING LOG NOTES**

#### DESCRIPTIVE TERM, GRANULAR SOIL (% BY DRY WEIGHT)

Trace 0% - 5% Little 5% - 12% Some 12% - 35% And 35% - 50%

- $Q_P$  = Estimated Unconfined Compressive Strength (by pocket penetrometer) expressed in tons per square foot (t/sf).
- Q<sub>U</sub> = Estimated Unconfined Compressive Strength (by ASTM 2166) expressed in tons per square foot (t/sf).

NM = Natural Moisture

#### M = MOISTURE

 $\begin{aligned} D &= Dry & F &= Frozen \\ M &= Moist & W &= Wet \end{aligned}$ 

S = Saturated

LOI = Loss on Ignition (Organic Content)

N (Standard Blow Count) = blows per foot, as shown. Performed in general accordance with Standard Penetration Test Specifications (ASTM D-1586).

NR = No Recovery WOH = Weight of Hammer # = Sample Number

#### SOIL CLASSIFICATION

F = Fine LL = Liquid Limit, percent
M = Medium PL = Plastic Limit, percent
C = Coarse PI = Plasticity Index (LL-PL)

W.L. = Water Level

#### SOIL STRENGTH CHARACTERISTICS

CONSISTENCY	(Cohesive Soils)	RELATIVE DENS	SITY (Granular Soils)
<u>Term</u>	$Q_u$ tons/sq.ft.	<u>Term</u>	"N" Value
Very Soft	0.0 to 0.25	Very Loose	0 - 4
Soft	0.25 to 0.50	Loose	4 - 10
Firm	0.50 to 1.0	Medium-Dense	10 - 30
Stiff	1.0 to 2.0	Dense	30 - 50
Very Stiff	2.0 to 4.0	Very Dense	Over 50
Hard	Over 4.0		

#### ORGANIC CONTENT BY COMBUSTION METHOD

Soil Description	Loss On Ignition	<u>Term</u>	Plastic Index
Non Organic	Less than 4%	None to Slight	0 - 4
Organic Silt / Clay	4 - 12%	Slight	5 - 7
Sedimentary Peat	12 - 50%	Medium	8 - 22
Fibrous & Woody Peat	More than 50%	High to Very High	Over 22

**PLASTICITY** 

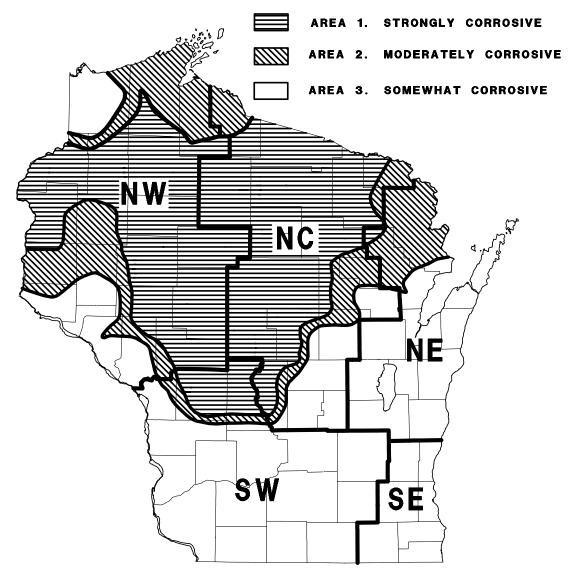
# Unified Soil Classification System (USCS)

Maj	jor Divi	sions	5		oup abols	Typical Names					La	aboratory Classi	fication	Criteria
(e)	Gravels (More than 50% of R200 is also R4)	Clean Gravels	(P200 < 5%)		W	Well-graded gravels, gravel- sand mixtures, little or no fines Poorly-graded gravels, gravel-	Depending on	follows:			nbols**	$C_u=D_{60}/D_{10}$ grea $C_z=(D_{30})^2/(D_{10}xD_{10})^2$ Not meeting all	0 <sub>60</sub> ) betv	
200 siev	Gravels 0% of R200		( P2	G	SP T	sand mixtures, little or no fines		_			dual syn	for GW		1
ils on the No.	Gr e than 50%	(More than 50% Gravels w Fines		GM*	d u	Silty gravels, gravel-sand-silt mixtures	n grain cu	s are class			equiring	Atterberg limits below 'A' line o		Above 'A' line with 4 <pi<7 are="" borderline<="" td=""></pi<7>
ained so	(More	Gravel	(P200 > 12%)	G	GC	Clayey gravel, gravel-sand-clay mixtures	ravel fron	ined soils	SW, SP	SM, SC	· 🥸 I	Atterberg limits cases requiring dua symbols.		
Coarse-grained soils (More than 50% of material is retained on the No. 200 sieve)	Iso R4)	Clean Sands	< 5%)	S	W	Well-graded sands, gravelly sands, little or no fines	and and g	coarse-grained soils are classified as follows:	.GW, GP, SW, SP	. GM, GC, SM, SC	. Borderlir	$C_u = D_{60}/D_{10}$ grea $C_z = (D_{30})^2/(D_{10} \times D_{10})^2$		
) Jan 50% of	Sands % of R200 is a	Clean	( P200	S	SP	Poorly-graded sands, gravelly sands, little or no fines	tages of sa	s (P200), cc %				Not meeting all for SW	on requirements	
(More th	Coarse (More than 50% of materi Sands (Less than 50% of R200 is also R4) Sands w Fines Clean Sand		) > 12%)	> 12% )	(P200 > 12%)	) > 12%)	> 12% )	> 12% )	SM*	n sith and sith are set than one that one than one that one than one that one than one than one than one than one than one than one that one than one than one than one than one than one than one that one than one than one than one than one than one than one that one that one than one than one than one than one than one than one that one than one that one than one than one that one than o	Atterberg limits below 'A' line o		Limits plotting in hatched area with 4 < Pl < 7 are borderline	
	(Less	Sands	( P200	S	SC .	Clayey sands, sand-clay mixtures	Determir	percenta	percenta Less Mor 5% t		2%	Atterberg limits above 'A' line &		cases requiring dual symbols.
ve)	S	han 50)		N	ΛL	Inorganic silts, rock flour, silty or clayey fine sands, clayey silts with slight plasticity		70						
No. 200 sie	Silts / Clays	iquid Limit less than 50)		(	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays		60 50		Pla	asti	city Chart		сн/он
soils led on the	0,	(Liquid		C	DL	Organic silts and organic silty clays of low plasticity	(Ia) xop		,					
Fine-grained soils	S/	than 50)		N	1H	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	Discticity Index	<b>30</b>	)			CL/OL		
Fine % of mater	(Less than 50% of material is retained on the No. 200 sieve) ic Silts / Clays Silts / Clays			C	Н	Inorganic clays of high plasticity, fat clays		20		CL-N	ΛΙΙ			мн/он
ess than 50				С	Н	Organic clays of medium to high plasticity, organic silts		10			4	ML/OL		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					Liquid Lin	6 nit (LL)	0 80 100							

<sup>\*</sup>Division of GM and SM groups into subdivisions of d and u are for roads and airfields only. Subdivision is based on Atterberg; limits suffix d used when LL<28 and PI<6; suffix u used when LL is greater than 28.

<sup>\*\*</sup>Borderline classifications, used for soils possessing characteristics of two groups, are designated by combination of group symbols. For example: GW-GC, well-graded gravel-sand mixture with clay binder.

# POTENTIAL FOR BACTERIAL CORROSION OF ZINC GALVANIZED STEEL CULVERT PIPE



INDIVIDUAL SITES IN AREA 3 MAY BE STRONGLY TO MODERATELY CORROSIVE DUE TO LOCAL CONDITIONS SUCH AS FARM RUNOFF, Anaerobic Bacteria in the Soil, etc.

**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 29′ 55.5″ N, 89° 30′ 0.2″ W - See Plan

Stevens Point, WI

Boring: 1
Auger: HSA
Page: 1 of 1
Drillers: MA / NH

**Drillers:** MA / NH **Date:** 10/16/12 **Elevation:** 1100.2

		Stevens Point, WI						ation:	1100.2
Depth (ft.)		Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)		Qp (tsf)	Notes
	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	6	24	M	, ,	
1	-	10"							
	-								
2	-								
	-	D 7116117D							
3	-	Brown F-M SAND		25 5	0	1 1	N /		
1	-	Little Silt, Trace Gravel	2	3.5 - 5	8	14	M		
4	-	( USCS: SP-SM )							
5	-								
	_								
6	-	6.0'	3	6 - 7.5	9	12	M		
	-								
7	-	Brown F-M SAND							
	-	Little Gravel							
8	-	( USCS: SP )							
	-	0.01				1.0			
9	-	9.0'	4	9 - 10.5	8	12	S		
10	-								
10	-								
11	-								
11	_								
12	_								
	-								
13	-								
	-								
14	-	Light Brown F-M SAND	5	14 - 15.5	9	12	S		
1	-	Little Gravel							
15	-	( USCS: SP )							
16	-								
10	-								
17	_								
] -,	-								
18	-								
	-		6	18.5 - 20	10	12	S		
19	-								
20	-	F 0 7 22 21							
20	-	E.O.B. 20.0'							
	-	Water @ Completion 9'							
	-	Backfilled with Bentonite Chips							
	_								
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	-								
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	-								
	-								
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 3.3″ N, 89° 29′ 42.7″ W - See Plan

Stevens Point, WI

Boring: 2
Auger: HSA
Page: 1 of 1
Drillers: MA / NH

Date: 10/18/12 Elevation: 1109.7

		Stevens Point, WI						ation:	1109.
Depth (ft.)		Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
( **/	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	5	22	M	(*** )	
1	-	12"							
	-								
2	-	Brown Clayey Fine SAND							
	-	Trace Gravel							
3	-	( USCS: SC )							
	-	3.5'	2	3.5 - 5	6	12	W		
4	-								
_	-								
5	-	7,161,77							
	-	Brown F-M SAND			_	1.0	١,,		
6	-	Little Silt, Trace Gravel	3	6 - 7.5	7	12	M		
	-	( USCS: SP-SM )							
7	-								
8	-								
0	_								
9	_	9.0'	4	9 - 10.5	6	12	M		
, ,	]	9.0	+	9 - 10.5	U	12	101		
10	_								
10	l _								
11	_								
11	_								
12	-								
	-								
13	-								
	-	Light Brown F-M SAND							
14	-	Trace Gravel	5	14 - 15.5	6	12	S		
	-	( USCS: SP )							
15	-								
	-								
16	-								
	-								
17	-								
10	-								
18	-		_	18.5 - 20	7	12	S		
19	-		6	10.3 - 20	/	12	)		
19	-								
20	[	E.O.B. 20.0'							
20	<u> </u>	L.O.B. 20.0 Water @ Completion 14.5'							
	_	Backfilled with Bentonite Chips							
	-	Buckined with Bentonite Chips							
	-								
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**Boring By:** Nummelin Testing Services, Inc.

East Park Commerce Center **Project:** 

44° 30′ 1.5″ N, 89° 29′ 29.7″ W - See Plan **Location:** 

Stevens Point, WI

**Boring:** Auger: **HSA** Page: 1 of 1

**Drillers:** MA / NH 10/23/12 1112.5 Date:

**Elevation:** 

		Stevens Point, WI						ation:	1112.5
Depth (ft.)		Classification/Description	#	Sample Depth (ft.) 0 - 2	N	Rec (in.)	M	Qp (tsf)	Notes
` ,	-	Dark Brown Silty SAND (Topsoil)	1	0 - 2	5	14	M	, ,	
1	-	8"							
	-								
2	-	Brown Fine SAND							
	-	Little Silt, Trace Gravel							
3	-	( USCS: SP-SM )							
	-	3.5'	2	3.5 - 5	7	3	M		
4	-								
_	-								
5	-								
	-			6 75	0	10	\ <sub>\ \ 1</sub>		
6	-		3	6 - 7.5	8	12	M		
7	_								
,	-								
8	_								
0	_								
9	_		4	9 - 10.5	10	12	M		
	_				10	1-	1,1		
10	-								
	-	Light Brown F-M SAND							
11	-	Little Gravel							
	-	( USCS: SP )							
12	-								
	-								
13	-								
	-				_		~		
14	-		5	14 - 15.5	5	12	S		
1.5	-								
15	-								
16	-								
10	_								
17	-								
1,	_								
18	l -								
	-		6	18.5 - 20	12	12	S		
19	-								
	-								
20	-	E.O.B. 20.0'							
	-	Water @ Completion 14'							
	-	Backfilled with Bentonite Chips							
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 7.3″ N, 89° 29′ 6.4″ W - See Plan

Stevens Point, WI

Boring: 4
Auger: HSA
Page: 1 of 1
Drillers: MA / NH

**Date:** 10/15/12 **Elevation:** 1117.9

		Stevens Point, WI						ation:	1117.9
Depth		Classification/Description	#	Sample	N	Rec	M	Qp	Notes
(ft.)		1	1	Depth (ft.)		(in.)		(tsf)	
(200)	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	9	12	M	(401)	
1		8"	1	0 - 2		12	141		
1	-	o							
	-								
2	-	Brown Fine SAND							
	-	Some Silt, Little Gravel							
3	l _	(USCS: SM)							
5		3.5'	١	25 5	7	12	NЛ		
	-	3.5	2	3.5 - 5	/	12	M		
4	-								
	-								
5	l -								
		Brown F-M SAND							
	l -		١,	6 7 5	_	1.0	3.6		
6	-	Some Gravel	3	6 - 7.5	9	12	M		
	-	( USCS: SP )							
7	-								
	l _								
0									
8	-								
	-								
9	-	9.0'	4	9 - 10.5	12	14	M		
	_								
10									
10	l -								
	-								
11	-								
	- 1								
12	l -								
12									
1.0	l -								
13	-								
	-								
14	-	Light Brown F-M SAND	5	14 - 15.5	28	12	M		
	l _	Little Gravel	`						
1.5	l -								
15	-	( USCS: SP )							
	-								
16	-								
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1	l -								
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20	l -	E O D 20 0!							
20	l -	E.O.B. 20.0'							
	-	Water @ Completion 17'							
1	l -	Backfilled with Bentonite Chips				I			
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 1.3″ N, 89° 28′ 49.7″ W - See Plan

Stevens Point, WI

Boring: 5
Auger: HSA
Page: 1 of 1
Drillers: MA / NH

**Drillers:** MA / NH **Date:** 10/23/12 **Elevation:** 1116.1

Classification/Description Sample Depth Rec M Qp Notes Depth (ft.) (ft.) (in.) (tsf) Dark Brown Silty SAND (Topsoil) 0 - 2 24 M ----- 10" -----1 2 **Brown F-M SAND** Little Silt, Trace Gravel 3 (USCS: SP-SM) ----- 3.5' -----2 3.5 - 5 4 10 M 4 5 **Brown F-M SAND** Some Gravel 3 6 - 7.5 11 6 10 M (USCS: SP) 7 8 ----- 9.0' -----9 - 10.5 4 11 12 M 10 11 12 13 Light Brown F-C SAND S 14 Some Gravel 5 14 - 15.5 13 12 (USCS: SP) 15 16 17 18 S 18.5 - 20 15 12 19 20 ----- E.O.B. 20.0' ---------- Water @ Completion 14.5' ---------- Backfilled with Bentonite Chips -----

**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 10.0″ N, 89° 30′ 4.2″ W - See Plan

Stevens Point, WI

Boring: 6
Auger: HSA
Page: 1 of 1
Drillors: MA / NH

**Drillers:** MA / NH **Date:** 10/16/12 **Elevation:** 1103.2

		Stevens Point, WI						ation:	1105.2
Depth		Classification/Description	#	Sample	N	Rec	M	Qp	Notes
(ft.)		_		Depth (ft.) 0 - 2		(in.)		(tsf)	
	-	Dark Brown Silty SAND (Topsoil)	1	0 - 2	6	24	M	, ,	
1	_	12"	1	ŭ <b>-</b>	Ü		1.1		
1	_	12							
2		Duarra Eina CAND							
2	-	Brown Fine SAND							
	-	Little Silt, Little Gravel							
3	-	( USCS: SP-SM )							
	-	3.5'	2	3.5 - 5	6	12	M		
4	_								
	_								
5									
3	-	Darrage E M CAND							
	-	Brown F-M SAND	١,			10			
6	-	Little Gravel	3	6 - 7.5	9	12	M		
	-	( USCS: SP )							
7	-								
	_								
8	_								
	_								
9		9.0'	<u>ا</u> ا	9 - 10.5	9	10	ъл		
9	-	9.0	4	9 - 10.5	9	10	M		
	-								
10	-								
	-								
11	-								
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12	_								
12									
10	-								
13	-								
	-								
14	-	Light Brown F-M SAND	5	14 - 15.5	4	12	S		
	_	Little Gravel							
15	_	(USCS: SP)							
13		( OBCB. BI )							
1.0	-								
16	-								
	-								
17	-								
	-								
18	-								
	-		6	18.5 - 20	8	12	S		
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19	l -								
20	l -	E O D 20 01							
20	-	E.O.B. 20.0'							
	-	Water @ Completion 9'							
	-	Backfilled with Bentonite Chips							
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 12.0″ N, 89° 29′ 46.3″ W - See Plan

Stevens Point, WI

Boring: 7
Auger: HSA
Page: 1 of 1
Drillers: MA / NH

 Drillers:
 MA / NH

 Date:
 10/18/12

 Elevation:
 1112.2

		Stevens Point, WI						ation:	1112.2
Depth		Classification/Description	#	Sample Depth (ft.)	N	Rec	M	Qp (tef)	Notes
(ft.)	<u> </u>	Dorle Drown Cilty CAND (Toposil)	1	Depth (ft.) 0 - 2	5	(in.)	N/I	(tsf)	
1	-	Dark Brown Silty SAND ( Topsoil ) 	1	0 - 2	3	20	M		
1	_								
2	_								
	-								
3	-	Brown F-M SAND							
	-	Some Silt, Little Gravel	2	3.5 - 5	3	14	W		
4	-	( USCS: SM )							
	-								
5	-								
6	_	6.0'	3	6 - 7.5	7	12	M		
0	-		3	0 - 7.3	/	12	1V1		
7	_								
,	-								
8	-								
	-								
9	-		4	9 - 10.5	5	14	M		
10	-								
10	-								
11	_								
11	[	Light Brown F-M SAND							
12	_	Little Gravel							
1-	-	(USCS: SP)							
13	-	,							
	-								
14	-		5	14 - 15.5	12	12	M		
1.5	-								
15	-								
16	-								
10	_								
17	_								
	-								
18	-								
1.0	-		6	18.5 - 20	11	4	S		
19	-								
20	-	E.O.B. 20.0'							
20	[	E.O.B. 20.0 Water @ Completion 17.5'							
	_	Backfilled with Bentonite Chips							
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 11.5″ N, 89° 29′ 27.4″ W - See Plan

Stevens Point, WI

Boring: 8
Auger: HSA
Page: 1 of 1
Drillers: MA / NH

**Date:** 10/23/12 **Elevation:** 1113.4

		Stevens Point, WI						ation:	1113.4
Depth (ft.)		Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
( 11)	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	5	20	M	( /	
1	_	10"							
_	_	- "							
2	_	Brown Clayey SAND							
	_	Little Gravel							
3	_	(USCS: SC)							
	_	3.5'	2	3.5 - 5	4	12	M		
4	_				-				
	l -								
5	_								
	_	Brown F-M SAND							
6	l -	Little Gravel	3	6 - 7.5	8	12	M		
Ü	l _	(USCS: SP)		0 7.5	Ü		1,1		
7	l _	( CBCB. SI )							
,	l _								
8	l _								
	l _								
9	_	9.0'	4	9 - 10.5	4	12	M		
	_	7.0	-	) - 10.5		12	141		
10	-								
10	-								
11	]								
11	-								
12	-								
12	-								
13	-								
13	-	Light Drown E.M.CAND							
1.4	-	Light Brown F-M SAND	5	14 15 5	6	12	S		
14	-	Trace Gravel	3	14 - 15.5	O	12	ာ		
1.5"	-	( USCS: SP )							
15	-								
1.0	-								
16	-								
17	-								
17	-								
10	-								
18	-		_	10.5 20	7	12	c		
10	-		6	18.5 - 20	/	1.2	S		
19	-								
20	-	E O D 20 0							
20	-	E.O.B. 20.0'							
	-	Water @ Completion 14'							
	-	Backfilled with Bentonite Chips							
	-								
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	-								
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	-								

**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 9.3″ N, 89° 29′ 6.2″ W - See Plan

Stevens Point, WI

Boring: 9
Auger: HSA
Page: 1 of 1

 Drillers:
 MA / NH

 Date:
 10/15/12

 Elevation:
 1118.0

		Stevens Point, WI						ation:	1116.0
Depth		Classification/Description	#	Sample	N	Rec	M	Qp	Notes
(ft.)		D 1 D 69, 5135 / B 113	1.	Depth (ft.) 0 - 2		(in.)	<b>.</b>	(tsf)	
	-	Dark Brown Silty SAND (Topsoil)	1	0 - 2	5	20	M		
1	-	12"							
	-								
2	-	Brown Fine SAND							
	-	Little Silt, Little Gravel							
3	_	( USCS: SP-SM )							
	_	3.5'	2	3.5 - 5	13	8	M		
4	_		-		10		1,1		
"	_								
5									
)	-	Danier E M CAND							
	-	Brown F-M SAND		<i>c</i> 7.5	1.0				
6	-	Some Gravel	3	6 - 7.5	16	8	M		
	-	( USCS: SP )							
7	-								
	-								
8	-								
	-								
9	_	9.0'	4	9 - 10.5	17	12	M		
	l _			,					
10	_								
10	_								
11	_								
11	_								
10	-								
12	-								
	-								
13	-								
	-								
14	-	Brown Fine SAND	5	14 - 15.5	15	12	M		
	-	Little Gravel							
15	_	( USCS: SP )							
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16	_								
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17									
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18	_			10.5.20	17	12			
10	-		6	18.5 - 20	17	12	S		
19	-		1						
	-								
20	-	E.O.B. 20.0'							
	-	Water @ Completion 17'	1						
	-	Backfilled with Bentonite Chips	1						
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			1						
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 13.2″ N, 89° 28′ 50.7″ W - See Plan

Stevens Point, WI

Boring: 10
Auger: HSA
Page: 1 of 1

 Drillers:
 MA / NH

 Date:
 10/23/12

 Elevation:
 1121.2

		Stevens Point, WI					Fier	ation:	1121.2
Depth		Classification/Description	#	Sample	N	Rec	M	Qp	Notes
(ft.)		•		Depth (ft.)		(in.)		(tsf)	
(100)	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	8	12	M	(651)	
1	_	8"	1	0 2		12	171		
1	-	8							
	-	D CI CAND O CDAVEL							
2	-	Brown Clayey SAND & GRAVEL							
	-	( USCS: SP-SC )							
3	-								
	-	3.5'	2	3.5 - 5	18	4	M		
4	-								
	- 1								
5	_								
	l _								
6	_		3	6 - 7.5	14	14	M		
				0 - 7.5	17	17	141		
7	-								
7	-								
	-								
8	-								
	-		١,	0 10 7	4.0	۱.,			
9	-		4	9 - 10.5	13	14	M		
	-								
10	-	Light Brown F-M SAND							
	-	Some Gravel							
11	- 1	( USCS: SP )							
	-								
12	- 1								
	_								
13	l _								
13	l _								
14			5	14 - 15.5	18	12	M		
14	-			14 - 13.3	10	12	171		
1.5	-								
15	-								
1.0	-								
16	-								
	-								
17	-								
	-								
18	-								
	-		6	18.5 - 20	13	12	S		
19	-								
	-								
20	-	E.O.B. 20.0'							
-	-	Water @ Completion 18'							
	l _	Backfilled with Bentonite Chips							
	l -	Buckined with Demonite Chips							
	-								
	-								
	-								
	-								
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30' 26.5" N, 89° 29' 47.7" W - See Plan

Stevens Point, WI

**Boring:** 11 Auger: **HSA** Page: 1 of 1

**Drillers:** MA / NH Date: 10/15/12

**Elevation:** 1109.5 Classification/Description Sample Depth Rec M Qp Notes Depth (ft.) (ft.) (in.) (tsf) Dark Brown Silty SAND (Topsoil) 0 - 2 23 M -----8" -----1 2 **Brown F-M SAND** Some Silt, Trace Gravel 3 (USCS: SM) ----- 3.5' -----2 3.5 - 5 4 10 M 4 5 **Brown F-M SAND** Little Gravel 3 6 - 7.5 7 6 12 M (USCS: SP) 7 8 ----- 9.0' -----9 - 10.5 4 12 12 M 10 11 12 13 S 14 Light Brown F-M SAND 5 14 - 15.5 5 14 Little Gravel 15 (USCS: SP) 16 17 18 S 18.5 - 20 10 12 19 20 ----- E.O.B. 20.0' ---------- Water @ Completion 14' ---------- Backfilled with Bentonite Chips -----

**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 20.9″ N, 89° 29′ 25.7″ W - See Plan

Stevens Point, WI

Boring: 12
Auger: HSA
Page: 1 of 1
Drillers: MA / NH

**Drillers:** MA / NH **Date:** 10/15/12 **Elevation:** 1113.9

		Stevens Point, WI						ation:	1115.9
Depth		Classification/Description	#	Sample	N	Rec	M	Qp	Notes
(ft.)	l	1	1	Depth (ft.)		(in.)		(tsf)	
(10.)	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	6	14	M	(651)	
1	_	5"	1	0 - 2	U	17	141		
1		J							
	-								
2	-	Brown Silty Fine SAND							
	-	Little Gravel							
3	_	( USCS: SM )							
	l _	3.5'	2	3.5 - 5	11	6	M		
1 4		5.5	~	3.3 - 3	11	U	141		
4	-								
	-								
5	-								
	-	Brown F-C SAND							
6	_	Little Silt, Some Gravel	3	6 - 7.5	14	8	M		
	l _	(USCS: SP-SM)		0 7.0		Ü			
7		( CSCS. SI -SIVI )							
/	-								
	-		1						
8	-		1						
	-								
9	-	9.0'	4	9 - 10.5	6	14	M		
	_								
10	_								
10									
1.1	-								
11	-								
	-								
12	-								
	-								
13	_								
	l _								
14		Light Brown F-M SAND	5	14 - 15.5	8	12	S		
14	-		1 3	14 - 13.3	0	12	S		
	-	Little Gravel							
15	-	( USCS: SP )							
	-								
16	-								
	_								
17	_								
1 '	l -								
10	l -								
18	l -		_	10.5.20	0	1.0	C		
1 , .	-		6	18.5 - 20	8	12	S		
19	-								
1	-								
20	-	E.O.B. 20.0'	1						
1	l -	Water @ Completion 14'	1						
	l	Backfilled with Bentonite Chips	1						
	l -	backined with bentonite Chips	1						
	l -		1						
	-		1						
	-		1						
1	-								
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 27.7″ N, 89° 29′ 13.1″ W - See Plan

Stevens Point, WI

Boring: 13
Auger: HSA
Page: 1 of 1

 Page:
 1 of 1

 Drillers:
 MA / NH

 Date:
 10/16/12

 Elevation:
 1116.9

		Stevens Point, WI						ation:	1110.9
Depth		Classification/Description	#	Sample	N	Rec	M	Qp	Notes
(ft.)		*		Depth (ft.)		(in.)		(tsf)	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	6	16	M	\·)	
1	_	8"	1	0 2	Ü	10	111		
1		<b>0</b>							
	-	D CI CAND							
2	-	Brown Clayey SAND							
	-	Some Gravel							
3	-	( USCS: SC )							
	-	3.5'	2	3.5 - 5	11	12	M		
4	_								
	_								
5	-								
)	-								
_	-		١.						
6	-	Brown F-C SAND	3	6 - 7.5	10	12	M		
	-	Some Gravel							
7	_	( USCS: SP )							
	_	( ,							
8	_								
0	-								
	-	0.01	١,	0 10 5	1.1	1.4	3.7		
9	-	9.0'	4	9 - 10.5	11	14	M		
	-								
10	-								
	_								
11	_								
1	_								
12	-								
12	-								
	-								
13	-								
	-								
14	_	Light Brown F-M SAND	5	14 - 15.5	11	12	S		
	_	Little Gravel	-						
15		( USCS: SP )							
13	-	( OSCS. SI )							
1.0	-								
16	-								
	-								
17	-		1						
	-		1						
18	_		1						
	l -		6	18.5 - 20	9	12	S		
19			١	10.5 20		12	5		
1 17	I -		1						
20	_	E O B 20 0	1						
20	-	E.O.B. 20.0'	1						
	-	Water @ Completion 15'	1						
1	-	Backfilled with Bentonite Chips							
	-	*							
1	l -								
			1						
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	I -		1						
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 27.7″ N, 89° 28′ 49.2″ W - See Plan

Stevens Point, WI

Boring: 14
Auger: HSA
Page: 1 of 1

 Drillers:
 MA / NH

 Date:
 10/23/12

 Elevation:
 1121.5

		Stevens Point, WI					rie	ation:	1121.5
Depth		Classification/Description	#	Sample	N	Rec	M	Qp	Notes
(ft.)		1		Depth (ft.)		(in.)		(tsf)	
(= 1.7)	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	3	18	M	(**-)	
1	_	6"	*	0 2		10	171		
1									
	-								
2	-								
	-								
3	-								
	-		2	3.5 - 5	3	10	M		
4	-								
	l _	Brown SAND & GRAVEL							
5	l _	(USCS: SP)							
	l -	( CSCS. SI )							
	-			6 7 5		10	3.4		
6	-		3	6 - 7.5	6	12	M		
	-								
7	-								
	-								
8	-								
	-								
9	l -	9.0'	4	9 - 10.5	12	10	M		
		7.0		7 10.5	12	10	141		
10	-								
10	-								
	-								
11	-								
	-								
12	-								
	- 1								
13	l -								
10	l _								
14	l -	Light Brown F-M SAND	5	14 - 15.5	6	12	M		
14	-	Light Blown F-W SAND	13	14 - 13.3	O	12	IVI		
	-	Some Gravel							
15	-	( USCS: SP )							
	-								
16	-								
	-								
17	-								
	_								
18	l _								
10	l -		6	18.5 - 20	15	12	S		
10	l -		10	10.5 - 20	13	12	ာ		
19	l -								
	-	<b>505</b> -200							
20	-	E.O.B. 20.0'							
	-	Water @ Completion 17.5'							
	l -	Backfilled with Bentonite Chips							
	-	<b>'</b>							
	_								
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

44° 30′ 37.7″ N, 89° 30′ 4.0″ W - See Plan **Location:** 

Stevens Point, WI

**Boring:** 15 Auger: HSA Page: 1 of 1

**Drillers:** MA / NH Date: 10/15/12 1108.5

**Elevation:** 

		Stevens Point, WI						ation:	1108.5
Depth (ft.)		Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
	-	Dark Brown Silty SAND ( Topsoil )	1	0 - 2	6	18	M		
1	-	9"							
	-								
2	-	Brown Fine SAND							
	-	Little Silt, Little Gravel							
3	-	( USCS: SP-SM )							
	-	3.5'	2	3.5 - 5	7	14	M		
4	-								
_	-								
5	-	D. EMGAND							
	-	Brown F-M SAND		. 7.5	0	1 1 1	3.7		
6	-	Little Gravel	3	6 - 7.5	8	14	M		
7	-	( USCS: SP )							
7	-		1						
8	_		1						
0									
9	_	9.0'	4	9 - 10.5	10	14	M		
		7.0	-	<i>y</i> = 10.3	10	1 7	141		
10	_								
10	_								
11	_								
	_								
12	-								
	-								
13	-								
	-								
14	-	Light Brown F-M SAND	5	14 - 15.5	6	14	S		
	-	Trace Gravel							
15	-	( USCS: SP )							
	-								
16	-								
,_	-		1						
17	-		1						
10	-		1						
18	_		_	19.5 20	7	14	C		
19	_		6	18.5 - 20	/	14	S		
19	_		1						
20		E.O.B. 20.0'	1						
20		E.O.B. 20.0 Water @ Completion 14'	1						
		Backfilled with Bentonite Chips	1						
	_	Bucklined with Dentonite Chips	1						
	_		1						
	_		1						
	-		1						
	_		1						
	-		1						
	-		1						
	-								

**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 37.4″ N, 89° 29′ 47.4″ W - See Plan

Stevens Point, WI

Boring: 16
Auger: HSA
Page: 1 of 1
Drillers: MA / NH

**Date:** 10/15/12 **Elevation:** 1111.0

		Stevens Point, WI					Fier	ation:	1111.0
Depth		Classification/Description	#	Sample	N	Rec	M	Qp	Notes
(ft.)		1		Depth (ft.)		(in.)		(tsf)	
( 1)	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	11	12	M	( , , ,	
1	_	7"							
1 1	l _	,							
2	_	Brown Fine SAND							
2	-	Little Silt, Little Gravel							
3	-	( USCS: SP-SM )		255		10	3.7		
Ι.	-	3.5'	2	3.5 - 5	6	12	M		
4	-								
	-								
5	-								
	-	Brown F-M SAND							
6	- 1	Little Gravel	3	6 - 7.5	7	12	M		
	-	( USCS: SP )							
7	- 1	, , ,							
	_								
8	l _								
	l _								
9	l -	9.0'	4	9 - 10.5	10	14	M		
)	-	<del></del> 9.0	4	9 - 10.5	10	14	101		
10	-								
10	-								
l	-								
11	-								
	-								
12	-								
	- 1								
13	-								
	-								
14	_	Light Brown F-M SAND	5	14 - 15.5	9	10	S		
-	l _	Little Gravel	•						
15	l _	(USCS: SP)							
13	l _	( OSCS. SI )							
16									
10	-								
17	-								
17	-								
1.0	-								
18	-		_	10.5.30		1.	~		
	-		6	18.5 - 20	8	12	S		
19	-								
	-								
20	-	E.O.B. 20.0'							
	-	Water @ Completion 14'							
	-	Backfilled with Bentonite Chips							
	۱ -								
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**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 41.2″ N, 89° 29′ 23.8″ W - See Plan

Stevens Point, WI

Boring: 17
Auger: HSA
Page: 1 of 1
Drillers: MA / NH

**Date:** 10/16/12 **Elevation:** 1116.6

		Stevens Point, WI						ation:	1116.6
Depth (ft.)		Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
` ,	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	6	16	M	, ,	
1	-	<sup>7</sup> "							
	-								
2	-	Brown Fine SAND							
	-	Little Silt, Little Gravel							
3	-	( USCS: SP-SM )							
	-	3.5'	2	3.5 - 5	5	12	M		
4	-								
	-								
5	-								
	-	Durren EMCAND		6 75	0	10	M		
6	-	Brown F-M SAND	3	6 - 7.5	8	12	M		
7	-	Little Gravel							
/	-	( USCS: SP )							
8	_								
0	_								
9	_	9.0'	4	9 - 10.5	7	12	M		
	_	<i>7.</i> 0	-	) - 10.5	<b>'</b>	12	171		
10	_								
10	-								
11	_								
	_								
12	- '								
	-								
13	-								
	-								
14	-	Light Brown F-M SAND	5	14 - 15.5	9	3	S		
	-	Little Gravel							
15	-	( USCS: SP )							
	-								
16	-								
1.7	-								
17	-								
18	-								
10	-		6	18.5 - 20	8	12	S		
19	[		1	10.5 - 20	o o	12	٥		
1/	-								
20	-	E.O.B. 20.0'							
~	l - '	Water @ Completion 14.5'							
	-	Backfilled with Bentonite Chips							
	-								
	-								
	-								
	-								
	-								
	-								
	-								
	-								

**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

44° 30′ 40.8″ N, 89° 29′ 11.1″ W - See Plan **Location:** 

Stevens Point, WI

**Boring:** 18 Auger: **HSA** Page: 1 of 1

**Drillers:** MA / NH Date: 10/16/12 1118.9

**Elevation:** 

		Stevens Point, WI						ation:	1118.9
Depth (ft.)		Classification/Description	#	Sample Depth (ft.)	N	Rec (in.)	M	Qp (tsf)	Notes
`	-	Dark Brown Silty SAND ( Topsoil )	1	0 - 2	4	20	M	` ′	
1	-	8"							
	-								
2	-	Brown F-M SAND							
_	-	Little Silt, Trace Gravel							
3	-	(USCS: SP-SM)		25 5	4	10	N /		
1	-	3.5'	2	3.5 - 5	4	12	M		
4	-								
5	-								
	-								
6	-	Brown F-M SAND	3	6 - 7.5	7	12	M		
	l _	Some Silt, Little Gravel		0 7.5	,	12	141		
7	_	(USCS: SM)							
	_	( ,							
8	-								
	-								
9	-	9.0'	4	9 - 10.5	8	12	M		
	-								
10	-								
	-								
11	-								
10	-								
12	-								
13	-								
13	[								
14	-	Light Brown F-M SAND	5	14 - 15.5	8	12	S		
1 .	l _	Little Gravel		11 13.3	O	12			
15	_	(USCS: SP)							
	-								
16	-								
	-								
17	-								
1.0	-								
18	-		_	10.5.30	11	1.2	_		
10	-		6	18.5 - 20	11	12	S		
19	-								
20	-	E.O.B. 20.0'							
20	[	E.O.B. 20.0 Water @ Completion 14'							
	-	Water & Completion 14 Backfilled with Bentonite Chips							
	_	Bucklined with Bentonite Chips							
	-								
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# **SOIL BORING LOG**

**Boring By:** Nummelin Testing Services, Inc.

East Park Commerce Center **Project:** 

44° 30' 39.0" N, 89° 28' 50.8" W - See Plan **Location:** 

Stevens Point, WI

**Boring:** 19 Auger: **HSA** Page: 1 of 1 **Drillers:** MA / NH

Date:

10/23/12 1123.4 **Elevation:** 

		Stevens Point, WI						vation:	1123.4
Depth (ft.)		Classification/Description	#	Sample Depth (ft.) 0 - 2	N	Rec (in.)		Qp (tsf)	Notes
. ,	-	Dark Brown Silty SAND (Topsoil)	1	0 - 2	5	18	M	` '	
1	-	10"							
	-								
2	-	Brown F-M SAND							
	-	Some Silt							
3	-	( USCS: SM )							
	-	3.5'	2	3.5 - 5	4	6	M		
4	-								
	-	Brown F-M SAND							
5	-	Little Gravel							
	-	( USCS: SP )							
6	-	6.0'	3	6 - 7.5	8	12	M		
	-								
7	-								
	-								
8	-								
	-		1						
9	-		4	9 - 10.5	10	12	M		
	-								
10	-								
	-								
11	-								
	-	Light Brown F-M SAND							
12	-	Some Gravel							
	-	( USCS: SP )							
13	-								
	-								
14	-		5	14 - 15.5	25	10	M		
	-								
15	-								
	-								
16	-								
	-		1						
17	-		1						
	-								
18	-			107.50		1.0	_		
	-		6	18.5 - 20	22	10	S		
19	-								
20	-	F O F 20 01							
20	-	E.O.B. 20.0'							
	-	Water @ Completion 17.5'							
	-	Backfilled with Bentonite Chips							
	-		1						
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# **SOIL BORING LOG**

**Boring By:** Nummelin Testing Services, Inc.

**Project:** East Park Commerce Center

**Location:** 44° 30′ 35.2″ N, 89° 28′ 46.5″ W - See Plan

Stevens Point, WI

Boring: 20 Auger: HSA Page: 1 of 1 Drillers: MA / NH

**Date:** 10/23/12 **Elevation:** 1124.7

		Stevens Point, WI						auon:	1124./
Depth		Classification/Description	#	Sample	N	Rec	M	Qp	Notes
(ft.)		ı		Denth (ft.)		(in.)		(tsf)	
(11.)	-	Dark Brown Silty SAND (Topsoil)	1	Depth (ft.) 0 - 2	4	18	M	(131)	
1	-	Dark Brown Sifty SAND (Topson)	1	0 - 2	4	10	171		
1	-	8"							
	-								
2	-	Brown Fine SAND							
	l -	Some Silt, Trace Gravel							
3	l _	(USCS: SM)							
3	l -	( USCS. SWI )	1 ~	25 5	2	10	Nπ		
	-	3.5'	2	3.5 - 5	3	10	M		
4	-								
	-	Brown F-M SAND							
5	-	Little Silt, Little Gravel							
	l _	(USCS: SP)							
6		6.0'	3	6 - 7.5	8	12	M		
6	l -		)	0 - 7.3	0	12	171		
	-								
7	-								
	l -								
8	-								
	l _								
9	l -		4	9 - 10.5	8	12	M		
9	-		4	9 - 10.3	0	12	IVI		
	-								
10	-								
	- 1								
11	_								
	_	Light Brown F-M SAND							
12	l -								
12	-	Some Gravel							
	-	( USCS: SP )							
13	-								
	-								
14	l _		5	14 - 15.5	18	3	M		
1 * '			-	11 13.3	10		111		
1.5	l -								
15	-								
	-								
16	-								
	l -								
17	l _								
1 '			1						
10	l <sup>-</sup>		1						
18	l -		_	10.5.20		1 12	_		
	-		6	18.5 - 20	8	12	S		
19	-		1						
1	l -		1						
20	l -	E.O.B. 20.0'							
1 -	_	Water @ Completion 17'							
1	l <sup>-</sup>		1						
	l -	Backfilled with Bentonite Chips							
	-								
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1	l -		1						
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## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page 1

Route To:										
☐ Drinking Water ☐ Watershed \	Vater 🔲	Waste Mana	agement	Remediation	n/Redevelo	pment	Other: _			
1. General Information				2. Facility	Owner Info	ormation				
Boring Number DNR Well	D No.	County		Facility Name	)					
1		Portage		East Park	Commerc	e Center				
Common Well Name		Gov't Lot #	# (if applic.)	Facility ID		License/Perm	it No.	City, Village, or Town		
			_	153.66				Stevens Point		
1/4 / 1/4 Section		Township		Street Addres			_			
Grid Location		N		NE Corner Present Well		ve & Hwy 1		Vell Owner		
		I Grid Origin		Present weil	Owner		Original v	veli Owner		
Feet N E		mated) Location	OR	0	Б .					
Latitude:	Longitude			Street Addres		of Owner & CTH 'HH'	Intersecti	i.		
DEG MIN SEC	DEG	MIN	SEC	IVE OF DITIO	World INC.	X O 1111 11111		ZIP Code		
	N		W							
Reason For Abandonment	WI Unique	Well No. of Re	eplacement Well							
						n, Casing & S		terial VA		
3. Well / Drillhole / Borehole Inform	_			Pump and piping removed?						
Monitoring Well	Original C	Construction	Date	Liner(s) ren	noved?		Yes	□ No ☑ N/A		
☐ Water Well	10/16/201			Screen rem			Yes	□ No ☑ N/A		
Borehole / Drillhole		Construction	•	Casing left	in place?		☐ Yes	□ No 🔽 N/A		
Boreriole / Drillriole	available,	please atta	ch.	Casing cut	off below su	ırface?	☐ Yes	□ No 🔽 N/A		
Construction Type:		_		_	terial rise to		✓ Yes	☐ No ☐ N/A		
Drilled Driven (sai	ndpoint)	☐ Dug		Material se	ttle after 24	hrs?	Yes	□ No ☑ N/A		
Other (specify):				If yes, w	as hole reto	pped?	☐ Yes	□ No 🔽 N/A		
Formation Type					•	sed, were they		□ No ☑ N/A		
Unconsolidated Formation	☐ Bedr	ock		hydrated with wa	ater from a kno	own safe source?	Yes	I NO I IVA		
				Required Met	hod of Placi	ing Sealing Ma	terial			
Total Well Depth From Groundsurface	e (ft.)	Casing Dia	ameter (in.)	☐ Conducto	or Pipe-Grav	rity 🔲	Conductor	Pipe-Pumped		
				Screened and Poured Other (explain):						
Lower Drillhole Diameter (in.)		Casing De	epth (ft.)	(Bentonite	e Chips)					
				Sealing Mater	rials					
		•		Neat Cem	ent Grout	L		d Slurry (11lb/gal w t.)		
Was Well Annular Space Grouted?	Yes	☐ No ☐	Unknow n		nent (concre			-Sand Slurry		
If yes, to what depth (feet)?	Donth to	water (feet)		Concrete	a Malla and	Manitarina M		•		
if yes, to what depth (feet)?	Depth to v	water (feet)		Bentonite		Monitoring W		Cement Grout		
	9	)		Granular	•	Ϊ		Sand Slurry		
		<u>'</u>				ds, Sacks Se		Mix Ratio or		
5. Material Used to Fill Well / Drillho	ole		From (ft.)	To (ft.)		lume (circle o		Mud Weight		
3/8" Bentonite Chips			Surface	20						
6. Comments										
						511511				
7. Supervision of Work				DNR Use						
Name of Person or Firm Doing Sealin NTS, Inc.	oandonment 2	ment Date Received Noted By								
NTS, Inc. Street or Route	Comments									
Street or Route Telephone Number P.O. Box 127 (715) 341-7974										
City	** *	Signature of Person Doing Work   Date Signed				Date Signed				
Stevens Point	State WI	ZIP Code 54481		Signature of Person Doing Work   Date Signed						

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page 1

Drinking Water Watershed Water Waste Managem  1. General Information  Boring Number DNR Well ID No. County						Remediatio	n/Redevelo	pment	Other: _					
1. General Ir	nformation					2. Facility /	Owner Info	ormation						
	er	DNR Well ID	No.	County		2. Facility / Owner Information  Facility Name  East Park Commerce Center								
2				Portage			Commerc	1		1				
Common We	ell Name			Gov't Lot #	f (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Villa Stevens	ige, or Town s Point			
1/4 / 1/4	1/4	Section		Township		Street Addres				•				
	Ostal Lanadia			N				ve & Hwy 1		M-II O				
Feet	Grid Location	□ E	(estin		OR	Present Well			Original v	Vell Owne	r 			
1 22 1	S	W		Location		Street Addres			المدموم مدا	<b>.</b>				
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	INE OF BILLO	WSKI KU C	CTH 'HH'	State	ZIP Code	;			
Reason For A	Abandonmer		1	Vell No. of Re	placement Well	1								
						4. Pump, Liner, Screen, Casing & Sealing Material								
3. Well / Dril	Ihole / Bore	hole Informa	tion			Pump and	oiping remo	□ No	<b>▼</b> N/A					
☐ Monitori	na Wall		Original C	onstruction	Date	Liner(s) rem	noved?		Yes	☐ No	<b>✓</b> N⁄A			
Monitori	-		10/18/201			Screen rem	oved?		☐ Yes	☐ No	<b>✓</b> N/A			
Water W			If a Well C	Construction	Report is	Casing left	☐ No	<b>✓</b> N⁄A						
✓ Borehole			available,	please atta	ch.	Casing cut	off below su	ırface?	☐ Yes	□ No	<b>▼</b> N/A			
Construction						Sealing ma		☐ No	□ N/A					
✓ Drille	_	Driven (sand	dpoint)	☐ Dug		Material set	tle after 24	hrs?	Yes	☐ No	<b>✓</b> N⁄A			
Cthe	Other (specify):					If yes, w	as hole reto	pped?	☐ Yes	□ No	<b>▼</b> N/A			
Formation Ty	ormation Type					If bentonite	chips were u	sed, were they	_	☐ No	<b>✓</b> N⁄A			
✓ Unconse	✓ Unconsolidated Formation ☐ Bed			ock		hydrated with wa	ater from a kno	own safe source?	Yes	INO	IV.A			
				•				ng Sealing Ma	aterial					
Total Well De	epth From G	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp		ped			
Lower Drillho	le Diameter	(in.)		Casing De	pth (ft.)	(Bentonite	e Chips)							
						Sealing Mater	ials		-					
Was Well An			☐ Yes		Unknow n	Neat Cement Grout Clay Sand Slurry (11lb/ga								
If yes, to wha	at depth (feet	)?	Depth to v	vater (feet)		_		Monitoring W		=				
			14.5			☐ Bentonite ☐ Granular B			Bentonite- Bentonite-					
			•					ds, Sacks Se			Ratio or			
5. Material U			е		From (ft.)	To (ft.)		ume (circle o			d Weight			
3/8" Bento	nite Chips				Surface	20								
6. Comment	S													
7. Supervision of Work								DNR Use	Only					
Name of Person or Firm Doing Sealing Work Date of Abandonme				andonment	Date Recei	ved		Noted By						
NTS, Inc. 10/18/12				<u>)</u>										
P.O. Box 127 (715) 341-7974				Comments										
P.O. Box 127					Signature of Person Doing Work Date Signed				ned					

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page 1

☐ Drinking Water ☐ Watershed Water ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other:	
1. General Information 2. Facility / Owner Information	
Boring Number DNR Well ID No. County Facility Name	
3 Portage East Park Commerce Center	
Common Well Name Gov't Lot # (if applic.) Facility ID License/Permit No. City, Villagor Stevens	ge, or Town Point
1/4 / 1/4 Section Township Range Street Address of Well	
N □ E □ W NE Corner Badger Ave & Hwy 10	
Grid Location  Feet N E (estimated) OR  Present Well Owner Original Well Owner	
Street Address or Route of Owner	
Latitude:  DEG MIN SEC DEG MIN SEC N State ZIP Code  N SEC N State ZIP Code	
Reason For Abandonment WI Unique Well No. of Replacement Well	
4. Pump, Liner, Screen, Casing & Sealing Material	
3. Well / Drillhole / Borehole Information Pump and piping removed?	<b>✓</b> N⁄A
Original Construction Date   Liner(s) removed?   Ves   No	<b>▼</b> N/A
Monitoring Well  10/23/2012  Screen removed?  Yes No	<b>✓</b> N⁄A
☐ Water Well  If a Well Construction Report is  Casing left in place?  ☐ Yes ☐ No	<b>✓</b> N⁄A
Borehole / Drillhole available, please attach. Casing cut off below surface?	<b>V</b> N∕A
Construction Type: Sealing material rise to surface?   ✓ Yes No	□ N/A
✓ Drilled □ Driven (sandpoint) □ Dug Material settle after 24 hrs? □ Yes □ No	<b>V</b> N∕A
☐ Other (specify): If yes, was hole retopped? ☐ Yes ☐ No	<b>V</b> N∕A
Formation Type  If hentonite chips were used, were they	
✓ Unconsolidated Formation ☐ Bedrock bydrated with water from a known safe source? ☐ Yes ☐ No	<b>V</b> N∕A
Required Method of Placing Sealing Material	
Total Well Depth From Groundsurface (ft.)  Casing Diameter (in.)  Conductor Pipe-Gravity  Conductor Pipe-Pump  Screened and Poured  Other (explain):	oed
Lower Drillhole Diameter (in.)  Casing Depth (ft.)  (Bentonite Chips)	
Sealing Materials	
Was Well Annular Space Grouted?	
If yes, to what depth (feet)? Depth to water (feet) For Monitoring Wells and Monitoring Well Boreholes Only:	
Bentonite Chips Bentonite-Cement Gr	
14 Granular Bentonite Bentonite-Sand Slurr  No. Yards, Sacks Sealant or Mix I	y Ratio or
5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Mud	Weight
3/8" Bentonite Chips Surface 20	
6. Comments	
6. Comments	
7. Supervision of Work DNR Use Only	
Name of Person or Firm Doing Sealing Work NTS, Inc. Date of Abandonment 10/23/12  Street or Route Date Received Noted By Comments	
Street or Route Telephone Number Comments P.O. Box 127 (715) 341-7974	
City State ZIP Code Signature of Person Doing Work Date Sign Stevens Point WI 54481	ed

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Drinking Water  Watershed Water  Waste Managem  1. General Information  Boring Number  DNR Well ID No.  County						Remediatio	n/Redevelo	pment	Other: _				
1. General Ir	nformation					2. Facility /	Owner Info	ormation					
	er	DNR Well ID	No.	County		2. Facility / Owner Information  Facility Name  East Park Commerce Center							
4				Portage			Commerc			1			
Common We	ell Name			Gov't Lot #	# (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Village Stevens F			
1/4 / 1/4	1/4	Section		Township		Street Addres							
				N				ve & Hwy 1		V-II O			
Feet	Grid Location	<u> </u>	(estin		OR	Present Well	Owner		Original v	Vell Owner			
	S	W		_ocation		Street Addres			l				
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	INE OF BILLO	WSKI KO 8	& CTH 'HH'	State	ZIP Code			
Reason For A	Abandonmer		1	Vell No. of Re	placement Well	1							
						4. Pump, L	iner, Scree	n, Casing & S	Sealing Ma	terial			
3. Well / Dril	lhole / Bore	hole Informa	tion			Pump and	oiping remo	□ No □	✓ N/A				
□ Monitori	a a Mall		Original C	onstruction	Date	Liner(s) ren	noved?		☐ Yes	□ No □	<b>✓</b> N⁄A		
Monitori	•		10/15/201	2		Screen rem	oved?		Yes	□ No 🖪	<b>✓</b> N⁄A		
Water W			If a Well C	Construction	Report is	Casing left	☐ No 🕟	<b>✓</b> N⁄A					
<b>✓</b> Borehole	e / Drillhole		available,	please atta	ch.	Casing cut	off below su	ırface?	☐ Yes	□ No □	✓ N/A		
Construction	Type:					Sealing ma	terial rise to	□ No □	N/A				
✓ Drille	d 🗀	Driven (sand	dpoint)	☐ Dug		Material set	tle after 24	hrs?	☐ Yes	□ No □	<b>✓</b> N/A		
Cthe	Other (specify):					If yes, w	as hole reto	pped?	Yes	□ No □	<b>✓</b> N⁄A		
Formation Ty	ormation Type					If bentonite	chips were u	sed, were they					
✓ Unconse	**			ock		hydrated with wa	ater from a kno	own safe source?	Yes	☐ No ☐	<b>V</b> N∕A		
	▼ Unconsolidated Formation					Required Met	hod of Placi	ing Sealing Ma	aterial				
Total Well De	epth From G	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp	· Pipe-Pumpe olain):	d		
Lower Drillho	le Diameter	(in.)		Casing De	epth (ft.)	(Bentonite	e Chips)						
						Sealing Mater	ials		-				
Was Well An			☐ Yes		Unknow n	Neat Cem Sand Cem Concrete	ent Grout nent (concre	V	Bentonite Bentonite	•	o/gal w t.)		
If yes, to wha	it depth (feet	)?	Depth to v	vater (feet)		_		Monitoring W		=			
			17			☐ Bentonite ☐ Granular B		-		Cement Grou Sand Slurry	ıt		
			1					ds. Sacks Se		Mix Ra	atio or		
5. Material U			е		From (ft.)	To (ft.)		lume (circle o		Mud W			
3/8" Bento	nite Chips				Surface	20							
0.0	_												
6. Comments													
7. Supervision of Work								DNR Use	Only				
Name of Person or Firm Doing Sealing Work  NTS, Inc.  Date of Abandonme 10/15/12  Street or Route  Date of Abandonme 10/15/12					Date Recei	ved		Noted By					
Street or Route Telephone Number P.O. Box 127 (715) 341-7974				Comments									
P.O. Box 127					Signature of F	Person Doin	g Work		Date Signed	d			

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Drinking Water Watershed Water Waste Managem  1. General Information  Boring Number DNR Well ID No. County						Remediatio	n/Redevelo	pment	Other: _			
1. General Ir	formation					2. Facility /	Owner Info	ormation				
Boring Numb	er	DNR Well ID	No.	County		2. Facility / Owner Information  Facility Name  East Park Commerce Center						
5				Portage		East Park (	Commerc	e Center				
Common We	II Name			Gov't Lot #	f (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Villa Stevens	ige, or Town s Point	
1/4 / 1/4	1/4	Section		Township		Street Addres						
			<del>-</del>	N	□ E □ W			ve & Hwy 1				
Feet	Grid Location	<u> </u>	(estin		OR	Present Well	Owner		Original v	Vell Owne	r	
1 11 1	L S	W		Location		Street Addres			lt			
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	INE OF BILLO	WSKI KO č	CTH 'HH'	State	ZIP Code	<b>;</b>	
Reason For A	Abandonmer		1	Vell No. of Re	placement Well	1						
						4. Pump, L	iner, Scree	n, Casing & S	Sealing Ma	terial		
3. Well / Dril	lhole / Bore	hole Informa	tion			Pump and	□ No	<b>✓</b> N/A				
☐ Monitori	a a Mall		Original C	onstruction	Date	Liner(s) ren	noved?		☐ Yes	☐ No	<b>✓</b> N⁄A	
Monitori	•		10/23/201	2		Screen rem	oved?		Yes	☐ No	<b>✓</b> N⁄A	
Water W			If a Well C	Construction	Report is	Casing left	☐ No	<b>✓</b> N/A				
✓ Borehole	e / Drillhole		available,	please atta	ch.	Casing cut	off below su	ırface?	☐ Yes	□ No	<b>V</b> N∕A	
Construction	Type:					Sealing ma	☐ No	□ N/A				
✓ Drille	d 🗀	Driven (san	dpoint)	☐ Dug		Material set	tle after 24	hrs?	Yes	□ No	<b>✓</b> N/A	
Othe	Other (specify):				<del></del>	If yes, w	as hole reto	pped?	Yes	□ No	<b>✓</b> N/A	
Formation Ty	ormation Type					If bentonite	chips were u	sed, were they	_			
✓ Unconso	ormation Type  Unconsolidated Formation  Bed			ock		hydrated with wa	ater from a kno	own safe source?	Yes	☐ No	<b>▼</b> N/A	
						Required Met	hod of Placi	ng Sealing Ma	aterial			
Total Well De	epth From G	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp		ped	
Lower Drillho	le Diameter	(in.)		Casing De	pth (ft.)	(Bentonite						
						Sealing Mater	ials		-			
Was Well An	-		☐ Yes		Unknow n	Neat Cement Grout Clay Sand Slurry (11lb/ga						
If yes, to wha	it depth (feet	)?	Depth to v	vater (feet)		_		Monitoring W		=		
			14.5			☐ Bentonite ☐ Granular B		-	Bentonite- Bentonite-			
			•					ds, Sacks Se			Ratio or	
5. Material U			е		From (ft.)	To (ft.)		ume (circle o			d Weight	
3/8" Bento	nite Chips				Surface	20						
										L		
6. Comments												
7. Supervision of Work								DNR Use	Only			
Name of Person or Firm Doing Sealing Work  NTS, Inc.  Date of Abandonme 10/23/12  Street or Route  Telephone Number					Date Recei	ved		Noted By				
P.O. Box 127 (715) 341-7974				Comments								
P.O. Box 127					Signature of Person Doing Work Date Signed				ned			

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## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Drinking Water Watershed Water Waste Managem  1. General Information  Boring Number DNR Well ID No. County						Remediatio	n/Redevelo	pment	Other: _					
1. General Ir	nformation					2. Facility /	Owner Info	ormation						
Boring Numb	er	DNR Well ID	No.	County		Facility Name East Park Commerce Center								
6				Portage		East Park (	Commerc	e Center						
Common We	ell Name			Gov't Lot #	f (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Villa Stevens	ige, or Town s Point			
1/4 / 1/4	1/4	Section		Township		Street Addres								
	0.111			N				ve & Hwy 1		V !! 0				
Feet	Grid Location	E	(estin		OR	Present Well	Owner		Original v	Vell Owne	r			
1 22 1	□ S	W		Location		Street Addres			l.a.4.a.v.a.a.4:	ł.				
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	NE OF BUILD	WSKI Ra 8	CTH 'HH'	State	ZIP Code	)			
Reason For A	Abandonmer			Vell No. of Re	placement Well	1								
						4. Pump, Liner, Screen, Casing & Sealing Material								
3. Well / Dril	lhole / Bore	hole Informa	tion			Pump and	□ No	<b>✓</b> N/A						
☐ Monitori	a a Mall		Original C	onstruction	Date	Liner(s) ren	noved?		☐ Yes	☐ No	<b>✓</b> N⁄A			
Monitorii	•		10/16/201	2		Screen rem	oved?		Yes	☐ No	<b>✓</b> N⁄A			
Water W			If a Well C	Construction	Report is	Casing left	☐ No	<b>✓</b> N/A						
✓ Borehole	e / Drillhole		available,	please atta	ch.	Casing cut	off below su	ırface?	☐ Yes	□ No	<b>V</b> N∕A			
Construction	Type:					Sealing ma	□ No	□ N/A						
✓ Drille	d $\Gamma$	Driven (sand	dpoint)	☐ Dug		Material set	tle after 24	hrs?	Yes Yes	□ No	<b>✓</b> N/A			
☐ Othe	Other (specify):					If yes, w	as hole reto	pped?	Yes	∏ No	<b>✓</b> N⁄A			
Formation Ty	ormation Type					If bentonite	chips were u	sed, were they						
✓ Unconso	ormation Type  Unconsolidated Formation					hydrated with wa	ater from a kno	own safe source?	√ ☐ Yes	☐ No	<b>▼</b> N/A			
								ng Sealing Ma	aterial					
Total Well De	epth From G	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp		ped			
Lower Drillho	le Diameter	(in.)		Casing De	epth (ft.)	(Bentonite								
						Sealing Mater	ials							
Was Well An			☐ Yes		Unknow n	Neat Cem Sand Cem Concrete	ent Grout nent (concre	~	Bentonite Bentonite	-Sand Slu Chips	1lb/gal w t.) rry			
If yes, to wha	it depth (feet	)?	Depth to v	vater (feet)		_		Monitoring W		=				
						☐ Bentonite ☐ Granular B			Bentonite- Bentonite-					
			9					ds. Sacks Se			Ratio or			
5. Material U			е		From (ft.)	To (ft.)	Vol	ume (circle o	ne)		d Weight			
3/8" Bento	nite Chips				Surface	20								
6 Commont	c									L				
6. Comments														
7. Supervision of Work								DNR Use	Only					
Name of Person or Firm Doing Sealing Work  NTS, Inc.  Date of Abandonmer 10/16/12  Street or Route  Telephone Number				2	Date Recei	ved		Noted By						
P.O. Box 127 (715) 341-7974				Comments										
City					Signature of Person Doing Work Date Signed				ned					

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## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page

Drinking Water  Watershed Water  Waste Managem  1. General Information  Boring Number  DNR Well ID No.  County						Remediatio	n/Redevelo	pment	Other: _			
1. General Ir	nformation					2. Facility /	Owner Info	ormation				
Boring Numb	er	DNR Well ID	No.	County Portage		Facility Name East Park (		e Center				
Common We	ell Name	_			f (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Villa Steven	age, or Town s Point	
1/4 / 1/4	1/4	Section	_	Township N		Street Addres NE Corner	Badger A	ve & Hwy 1				
Feet	Grid Location  N S	<u> </u>	(estin	Grid Origin nated) Location	OR	Present Well Street Addres		of Owner	Original V	Vell Owne	r	
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	NE of Brilo	wski Rd 8	CTH 'HH'	Intersecti State	ZIP Code	)	
Reason For A	Abandonmer	nt	WI Unique V	Vell No. of Re	placement Well	4. Pump, L	iner, Scree	n, Casing & S	Sealing Ma	terial		
3. Well / Dril	Ihole / Bore	hole Informa	tion			Pump and		_	☐ Yes	□ No	<b>V</b> N∕A	
☐ Monitori	-		10/18/201	onstruction 2 Construction		Liner(s) removed?  Screen removed?  Casing left in place?  Yes No  Yes No						
<b>▼</b> Borehole	e / Drillhole			please atta	•	Casing left  Casing cut		urfo.co?	_		<b>▼</b> N/A	
✓ Drille ☐ Othe	Construction Type:    Drilled					Sealing ma Material set If yes, w	terial rise to tle after 24 as hole reto	surface? hrs?	Yes ✓ Yes ✓ Yes ✓ Yes	No No No No	V NVA NVA V NVA V NVA	
✓ Unconse	**							own safe source?		INO	IVA	
Total Well De	Total Well Depth From Groundsurface (ft.)				ameter (in.)	☐ Conducto ☐ Screened	r Pipe-Grav I and Poure	_	cterial Conductor Other (exp		nped	
Lower Drillho	le Diameter	(in.)		Casing De	epth (ft.)	(Bentonite Chips)  Sealing Materials  Clay Sand Slurry (11lb/c						
Was Well An			☐ Yes	□ No □	Unknow n	Neat Cement Grout  ☐ Sand Cement (concrete) Grout ☐ Concrete ☐ Cay Sand Slurry (11lb/ga ☐ Bentonite-Sand Slurry ☐ Bentonite Chips						
If yes, to wha	t depth (feet	)?	Depth to v	vater (feet)		For Monitorine Bentonite Granular I	Chips Bentonite	Monitoring W	Bentonite- Bentonite-	Cement G Sand Slur	ry	
5. Material U			е		From (ft.)	To (ft.)		ds, Sacks Se ume (circle o			Ratio or d Weight	
3/8" Bento	nite Chips				Surface	20						
6. Comment	6. Comments									1		
7. Supervision of Work								DNR Use	Only			
Name of Person or Firm Doing Sealing Work NTS, Inc. Date of Abandon 10/18/12 Street or Route Telephone Numb					2	Date Recei	ved		Noted By			
Street or Route Telephone Number P.O. Box 127 (715) 341-7974						Comments						
P.O. Box 127       (715) 341-7974         City       State       ZIP Code         Stevens Point       WI       54481					Signature of Person Doing Work Date Signed				ned			

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page 1

Drinking Water Watershed Water Waste Managem  1. General Information  Boring Number DNR Well ID No. County						Remediatio	n/Redevelo	pment	Other: _				
1. General Ir	nformation					2. Facility /	Owner Info	ormation					
	er	DNR Well ID	No.	County		2. Facility / Owner Information Facility Name East Park Commerce Center							
8				Portage			Commerc	1		1			
Common We	ell Name			Gov't Lot #	# (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Villa Stevens	ige, or Town s Point		
1/4 / 1/4	1/4	Section		Township		Street Addres				•			
	Ostal Lanadia			N				ve & Hwy 1		M-II O			
Feet	Grid Location	<u> </u>	(estin		OR	Present Well	Owner		Original v	Vell Owne	r 		
	□ s	W		_ocation		Street Addres			lt				
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	INE OF BILLO	WSKI KO 8	CTH 'HH'	State	ZIP Code	)		
Reason For A	Abandonmer		1	Vell No. of Re	placement Well	1							
						4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Dril	Ihole / Bore	hole Informa	tion			Pump and	oiping remo	ved?	☐ Yes	□ No	<b>✓</b> N/A		
☐ Monitori	n a Mall		Original C	onstruction	Date	Liner(s) ren	noved?		☐ Yes	☐ No	<b>✓</b> N⁄A		
Monitorii	-		10/23/201	2		Screen rem	oved?		Yes	☐ No	<b>✓</b> N⁄A		
Water W			If a Well C	Construction	Report is	Casing left	in place?	☐ No	<b>✓</b> N/A				
<b>✓</b> Borehole	e / Drillhole		available,	please atta	ch.	Casing cut	off below su	ırface?	☐ Yes	□ No	<b>V</b> N∕A		
Construction	Type:					Sealing material rise to surface?				☐ No	□ N/A		
✓ Drille	d $\Gamma$	Driven (san	dpoint)	☐ Dug		Material set	tle after 24	hrs?	Yes	□ No	<b>✓</b> N/A		
Othe	Other (specify):				<del></del>	If yes, w	as hole reto	pped?	Yes	□ No	<b>✓</b> N/A		
Formation Ty	ormation Type					If bentonite	chips were u	sed, were they	_				
✓ Unconso	ormation Type  Unconsolidated Formation			ock		hydrated with wa	ater from a kno	own safe source?	Yes	☐ No	<b>▼</b> N/A		
						Required Met	hod of Placi	ng Sealing Ma	aterial				
Total Well De	epth From G	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp		ped		
Lower Drillho	le Diameter	(in.)		Casing De	epth (ft.)	(Bentonite							
		` ,			. ,	Sealing Mater	rials						
Was Well An			☐ Yes		Unknow n	Neat Cem Sand Cem Concrete	ent Grout nent (concre	~	Bentonite Bentonite	-Sand Slu Chips	1lb/gal w t.) rry		
If yes, to wha	at depth (feet	:)?	Depth to v	vater (feet)		_		Monitoring W		=			
			14			☐ Bentonite ☐ Granular B			Bentonite- Bentonite-				
5. Material U	Jsed to Fill V	Well / Drillhol	•		From (ft.)	To (ft.)	No. Yar	ds, Sacks Sea ume (circle o	alant or	Mix	Ratio or		
3/8" Bento	nite Chins				Surface	20			,	iviu	a vveigiit		
6. Comment	s												
7. Supervision of Work								DNR Use	Only				
Name of Person or Firm Doing Sealing Work Date of Abandonme				andonment	Date Recei	ved		Noted By					
NTS, Inc. 10/23/12				2				<u> </u>					
P.O. Box 127 (715) 341-7974				Comments									
City				_	Signature of Person Doing Work Date Signed				ned				

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page

Easity Name	Drinking Water  Watershed Water  Waste Managem  1. General Information  Boring Number  DNR Well ID No.  County						Remediatio	n/Redevelo	pment	Other: _				
Portage   East Park Commerce Center	1. General Ir	nformation					2. Facility /	Owner Info	ormation					
Common Well Name  Gov! Lot # (if applic.) Facility ID 153.66  Stevens Point 154 / 1/4  1/4   1/4   Section   Township Range Grid Location   Local Grid Origin   E   W NE Corner Badger Ave & Hwy 10  Present Well Owner   Original Well Owner   Street Address of Well No Stee   Original Well Owner   Feet	Boring Numb	er	DNR Well ID	No.	County		Facility Name							
153.66   Stevens Point   154.61   144   144   Section   Township   Range   Street Address of Well   NE Corner Badger Ave & Hwy 10   Nectorner Badger Ave & H	9				Portage		East Park (	Commerc	e Center					
Sind Location  Girld Location  Girld Corpin	Common We	ell Name			Gov't Lot #	f (if applic.)	,		License/Perm	nit No.		-		
Casing Diameter (in.)   Casi	1/4 / 1/4	1/4	Section		Township									
Feet				<del>-</del>	N	LL E LL W			ve & Hwy 1					
Latitude: DEG MIN SEC NEG MIN	Feet	_		(estin	nated)		Present Well	Owner		Original v	Vell Owne	r		
Reason For Abandonment  Will Urrique Well No. of Replacement Well  3. Well / Drillhole / Borehole Information    Monitoring Well   Original Construction Date   Original Construction Date   Original Construction Date   Original Construction Date   Original Construction Report is   A. Pump, Liner, Screen, Casing & Sealing Material	1 11 1	□ S	W							l				
Reason For Abandonment		MIN	_	DEG			INE OF BILLO	WSKI KO č	K CIH HH			e		
Pump and piping removed?   Yes   No   V NA	Reason For A	Abandonmer		1	Vell No. of Re		1							
Monitoring Well   Monitoring							4. Pump, Liner, Screen, Casing & Sealing Material							
Monitoring Well   Water Well   Well Construction Report is available, please attach.   Casing left in place?   Yes   No   V NA	3. Well / Dril	lhole / Bore	hole Informa	tion			Pump and	oiping remo	☐ Yes	□ No	<b>V</b> N∕A			
Water Well		\A/ II		Original C	onstruction	Date	Liner(s) rem	noved?		_	☐ No			
Somewhole   Drillhole   Available, please attach.		•		10/15/201	2		Screen rem	oved?		Yes	☐ No	<b>✓</b> N/A		
Construction Type:    Drilled				If a Well C	Construction	Report is	Casing left	in place?	☐ No	<b>✓</b> N/A				
Construction Type:    Drilled   Driven (sandpoint)   Dug     Other (specify):	✓ Borehole	e / Drillhole		available,	please atta	ch.	Casing cut	off below su	ırface?	Пурс	□ No	✓ N/A		
Waterial settle after 24 hrs?   Yes   No   ✓ N/A	Construction	Type:		•			Sealing ma		_					
Other (specify):	✓ Drille	d $\Gamma$	Driven (san	dpoint)	☐ Dug		Material set	tle after 24	hrs?		_	<b>V</b> N∕A		
Formation Type    Unconsolidated Formation   Bedrock   Bedrock   Bedrock   Bedrock   Hydrated with water from a known safe source?   Yes   No   VA	Othe	r (specify):					If yes, w	as hole reto	opped?			V N/Δ		
Vunconsolidated Formation   Bedrock   Hydrated with water from a known safe source?   Yes   No   NA	Formation Ty	ormation Type					If bentonite	chips were u	sed, were they					
Total Well Depth From Groundsurface (ft.)  Casing Diameter (in.)  Casing Depth (ft.)  Casing Materials  Ca	✓ Unconso	**						•	•	□ ∨	☐ No	<b>V</b> N⁄A		
Lower Drillhole Diameter (in.)  Casing Depth (ft.)  Casing Depth (ft.)  Casing Depth (ft.)  Sealing Materials  Sealing Materials  Neat Cement Grout  Sand Cement (concrete) Grout  Sand Cement (concrete) Grout  Bentonite-Sand Slurry  Bentonite-Chips  Bentonite Chips  Bentonite Concrete  For Monitorina Wells and Monitoring Well Boreholes Only:  Bentonite-Sand Slurry  For Monitorina Wells and Monitoring Well Boreholes Only:  Bentonite-Cament Grout  Bentonite Chips  Bentonite					•		_		-	aterial				
Sealing Materials  Was Well Annular Space Grouted?  Yes No Unknown  If yes, to what depth (feet)?  Depth to water (feet)  17  Depth to water (feet)  17  Depth to water (feet)  From (ft.)  From (ft.)  To (ft.)  No. Yards, Sacks Sealant or Volume (circle one)  Mix Ratio or Wolume (circle one)  Mix Ratio or Mud Weight  Surface  Comments  Telephone Number (7015) 341-7974  City  Sealing Materials  Neat Cement Grout  Sand Cement (concrete) Grout  Bentonite-Sand Slurry  Chips  Granular Bentonite Chips  No. Yards, Sacks Sealant or Volume (circle one)  Mix Ratio or Mud Weight  Date Of Abandonment 10/15/12  Telephone Number (715) 341-7974  City  State  ZIP Code  Signature of Person Doing Work  Date Of Signature of Person Doing Work  Date Signed	Total Well De	epth From G	roundsurface	(ft.)	Casing Dia	ameter (in.)		•	_			nped		
Was Well Annular Space Grouted?	Lower Drillho	le Diameter	(in.)		Casing De	pth (ft.)	(Bentonite							
Was Well Annular Space Grouted? Yes No Unknown Sand Cerrent (concrete) Grout Bentonite-Sand Slurry Concrete For Monitorina Wells and Monitoring Well Boreholes Only: Bentonite Chips Rentonite-Cerrent Grout Bentonite Chips Wix Ratio or Wolume (circle one) Mix Ratio or Mud Weight  7. Supervision of Work DNR Use Only Name of Person or Firm Doing Sealing Work NTS, Inc.  Teleghone Number (715) 341-7974 City State ZIP Code Signature of Person Doing Work Date Signed							Sealing Mater	ials		101 0		40.7.1.4		
Bentonite Chips   Bentonite-Cement Grout   Bentonite   Bentonite   Bentonite   Bentonite   Carnular Bentonite   Bentonite   Bentonite   Sand Slurry				☐ Yes	□ No □	Unknow n	Sand Cem			Bentonite	-Sand Slu			
5. Material Used to Fill Well / Drillhole  Surface  Surface  7. Supervision of Work  Name of Person or Firm Doing Sealing Work NTS, Inc.  Street or Route P.O. Box 127  City  State  Surface  From (ft.)  To (ft.)  To (ft.)  No. Yards, Sacks Sealant or Volume (circle one)  Mix Ratio or Mud Weight  Noted By  Mix Ratio or Mud Weight  All Prom (ft.)  Surface  DNR Use Only  Noted By  Noted By  Noted By  Date of Abandonment 10/15/12  Comments  Comments  Signature of Person Doing Work  Date Signed	If yes, to wha	t depth (feet	)?	Depth to v	vater (feet)				Monitoring W		=			
5. Material Used to Fill Well / Drillhole  Surface  Surface  Surface  To (ft.)  No. Yards, Sacks Sealant or Volume (circle one)  Mix Ratio or Mud Weight  Surface  20  6. Comments  To supervision of Work  Date of Abandonment 10/15/12  Street or Route P.O. Box 127  City  State  Surface  Surface  Surface  Surface  Surface  Surface  DNR Use Only  Noted By  Noted By  Comments  Comments  Date Received Noted By  Signature of Person Doing Work Date Signature of Person Doing Work Date Signed							_		-					
5. Material Used to Fill Well / Drillhole  3/8" Bentonite Chips  Surface  20  6. Comments  7. Supervision of Work  Name of Person or Firm Doing Sealing Work NTS, Inc.  Street or Route P.O. Box 127  City  State  Surface  20  DNR Use Only  Noted By  Noted By  Comments  Date Received  Noted By  Noted By  Signature of Person Doing Work  Date Signature of Person Doing Work				17			Granular I		da Saaka Sa			-		
6. Comments  7. Supervision of Work  Name of Person or Firm Doing Sealing Work NTS, Inc.  Street or Route P.O. Box 127  City  Date of Abandonment 10/15/12  Date Received Noted By  Noted By  Comments  Comments  Comments  Comments  Date Signature of Person Doing Work Date Signed				е		From (ft.)	To (ft.)		,					
7. Supervision of Work  Name of Person or Firm Doing Sealing Work NTS, Inc.  Street or Route P.O. Box 127  City  Date of Abandonment 10/15/12  Date Received Noted By  Comments  Comments  Comments  Comments  Date Received Noted By  Noted By  Date Only  Date Received Signature of Person Doing Work  Date Signed	3/8" Bento	nite Chips				Surface	20							
7. Supervision of Work  Name of Person or Firm Doing Sealing Work NTS, Inc.  Street or Route P.O. Box 127  City  Date of Abandonment 10/15/12  Date Received Noted By  Comments  Comments  Comments  Comments  Date Received Noted By  Noted By  Date Only  Date Received Signature of Person Doing Work  Date Signed														
7. Supervision of Work  Name of Person or Firm Doing Sealing Work NTS, Inc.  Street or Route P.O. Box 127  City  Date of Abandonment 10/15/12  Date Received Noted By  Comments  Comments  Comments  Comments  Date Received Noted By  Noted By  Date Only  Date Received Signature of Person Doing Work  Date Signed	6. Comment	s												
Name of Person or Firm Doing Sealing Work NTS, Inc.  Date of Abandonment 10/15/12  Street or Route P.O. Box 127  City  Date of Abandonment 10/15/12  Comments  Comments  Comments  Comments  Signature of Person Doing Work  Date Signed	6. Comments													
Name of Person or Firm Doing Sealing Work NTS, Inc.  Date of Abandonment 10/15/12  Street or Route P.O. Box 127  City  Date of Abandonment 10/15/12  Comments  Comments  Comments  Comments  Signature of Person Doing Work  Date Signed	7. Supervision of Work								DND Has	Ombr				
NTS, Inc.         10/15/12           Street or Route         Telephone Number (715) 341-7974           P.O. Box 127         (715) 341-7974           City         State         ZIP Code         Signature of Person Doing Work         Date Signed	•					andana aat	Dote Desci	und	שוער טצפי					
P.O. Box 127 (715) 341-7974  City State ZIP Code Signature of Person Doing Work Date Signed					<u>)</u>	Date Recei	vea		Noted By					
City State ZIP Code Signature of Person Doing Work Date Signed					Comments									
	City State ZIP Code									ned				

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Boring Number 10 DNR Well ID No. County Portage East Park Commerce Center  Common Well Name Gov't Lot # (if applic.) Facility ID License/Permit No. City, Village, or Town 153.66  1/4 / 1/4 Section Township Range NE Corner Badger Ave & Hwy 10  Grid Location Local Grid Origin Present Well Owner Original Well Owner	Drinking Water  Watershed Water  Waste Managem  1. General Information  Boring Number  DNR Well ID No.  County						Remediatio	n/Redevelo	pment	Other: _				
Common Well Name	1. General In	formation					2. Facility /	Owner Info	ormation					
Common Well Name	Boring Numb	er	DNR Well ID	No.	County		Facility Name							
153.66   Stevens Point   154 f 1/4   1/4   1/4   Section   Township   Range   N   E   W   N   C Corner Badger Ave & Hwy 10   Fresh   C   C   Street Address of Well   N   C C   C   Street Address of Well   N   C C   C   Street Address of Well   N   C C   Street Address of Well   N   C   C   Street Address of Route of Owner   N   C   Street Address or Route of Owner	10				Portage		East Park (	Commerc	e Center					
N   E   W   NE Corner Badger Ave & Hwy 10	Common We	II Name			Gov't Lot #	f (if applic.)	,		License/Perm	it No.		-		
Grid Location Feet	1/4 / 1/4	1/4	Section		Township									
Feet				<del>-</del>	N	L E L W			ve & Hwy 1					
Latitude: DEG MIN SEC DEG MIN SEC DEG MIN SEC N Wil Unique Well No. of Replacement Well  4. Pump, Liner, Screen, Casing & Sealing Material  3. Well / Drillhole / Borehole Information    Monitoring Well   10/23/2012   1/2 if a Well Construction Date 10/23/2012   1/4 a Well Construction Report is available, please attach.  Construction Type:   Value   Value	Feet	_		(estin	rated)		Present Well	Owner		Original v	Vell Owne	r		
Reason For Abandonment    Wil Unique Well No. of Replacement Well	1 11 1	□ S	W											
Reason For Abandonment		MIN	_	DEG		_	NE OF BUILD	WSKI Ra 8	K C I H 'HH'			Э		
Note   Pump and piping removed?   Yes   No   Vac   Note	Reason For A	Abandonmen		1	Vell No. of Re		1							
Monitoring Well   10/23/2012   If a Well Construction Date   10/23/2012   If a Well Construction Report is   available, please attach.   Casing left in place?   Yes   No   V NA   Xespending   NA   Yespending   Y							4. Pump, Liner, Screen, Casing & Sealing Material							
Monitoring Well   10/23/2012   Ves   No   No   No   No   No   No   No   N	3. Well / Drill	lhole / Bore	hole Informa	tion			Pump and	oiping remo	☐ Yes	□ No	<b>V</b> N∕A			
Water Well    Fall Well Construction Report is available, please attach.   Casing left in place?   Yes   No   ✓ NA		147 H		Original C	onstruction	Date	Liner(s) rem	noved?		_	☐ No			
Casing cut off below surface?  Ves No NA  Vor Drilled Driven (sandpoint)  Cother (specify):  Formation Type  Vunconsolidated Formation  Bedrock  Total Well Depth From Groundsurface (ft.)  Casing Diameter (in.)  Casing Diameter (in.)  Casing Depth (ft.)  Casing Diameter (in.)  Casing Cerent (Conductor Pipe-Gravity  Conductor Pipe-Gravity  Conductor Pipe-Pumped  Casing ut off below surface?  Ves No No NA  Material settle after 24 hrs?  If yes, was hole retopped?  Yes No V NA  If yes, was hole retopped?  Yes N	_	-		10/23/201	2		Screen rem	oved?		☐ Yes	☐ No	<b>✓</b> N/A		
Construction Type:    Porilled				If a Well C	Construction	Report is	Casing left	in place?		☐ Yes	☐ No	<b>✓</b> N/A		
Construction Type:    Total Well Depth From Groundsurface (ft.)   Casing Diameter (in.)	✓ Borehole	e / Drillhole		available,	please atta	ch.	Casing cut	off below su	ırface?	Пурс	□ No	✓ N/A		
Material settle after 24 hrs?	Construction	Type:		•			Sealing ma	terial rise to			_			
Other (specify):	✓ Drilled	d 🗆	Driven (sand	dpoint)	☐ Dug		Material set	tle after 24	hrs?		_	<b>V</b> N∕A		
Formation Type    Unconsolidated Formation	Cthei	r (specify):					If yes, w	as hole reto	pped?			V N/Δ		
Mydrated with water from a known safe source?   Yes   No   NA	Formation Ty	ormation Type					If bentonite	chips were u	sed, were they					
Total Well Depth From Groundsurface (ft.)  Casing Diameter (in.)  Casing Depth (ft.)  Conductor Pipe-Gravity  Conductor Pipe-Pumped  Other (explain):  Casing Depth (explain):  Casing Depth (ft.)  Casing Depth (ft.)  Sealing Materials  Neat Cement Grout  Sand Cement (concrete) Grout  Sand Cement (concrete) Grout  Bentonite-Sand Slurry  Pastonite Chips  Bentonite Chips  Bentonite Chips  Bentonite-Cerrent Grout  Bentonite Chips  Bentonite-Carrent Grout  Bentonite-Sand Slurry  Mix Ratio or  Volume (circle one)  Mud Weight  Conductor Pipe-Gravity  Charles  Cas Sand Slurry  Clay Sand Slurry (11lb/gal wt.)  Bentonite-Carrent Grout  Bentonite Chips  Conductor Pipe-Gravity  Depth to water (feet)  Cay Sand Slurry  Carrent Grout  Concrete  From Monitoring Wells and Monitoring Well Boreholes Only:  Bentonite Chips  Benton	✓ Unconso	**						•		☐ Yes	☐ No	<b>V</b> N⁄A		
Screened and Poured (Bentonite Chips)   Sealing Materials   Neat Cement Grout   Sand Cement (concrete) Grout   Sentonite Chips   Sentoni					1				_	terial				
Sealing Materials  Was Well Annular Space Grouted? Yes No Unknown  Was Well Annular Space Grouted? Yes No Unknown  If yes, to what depth (feet)?  Depth to water (feet)  18  Depth to water (feet)  To (ft.)  To (ft.)  No. Yards, Sacks Sealant or Volume (circle one)  Mix Ratio or Mud Weight  Surface  6. Comments	Total Well De	epth From Gi	oundsurface	(ft.)	Casing Dia	ameter (in.)		•	_			nped		
Was Well Annular Space Grouted?	Lower Drillhol	le Diameter	(in.)		Casing De	epth (ft.)	(Bentonite							
Was Well Annular Space Grouted? Yes No Unknown Sand Cement (concrete) Grout Concrete    Sand Cement (concrete) Grout Concrete   Sand Surry							Sealing Mater	ials		,				
Bentonite Chips Bentonite-Cement Grout Granular Bentonite  5. Material Used to Fill Well / Drillhole  Surface  Surface  Bentonite Chips Bentonite-Cement Grout Bentonite-Sand Slurry  Mix Ratio or Mud Weight  Surface  Comments						Unknow n	Sand Cent Concrete	nent (concre	~	Bentonite Bentonite	-Sand Slu Chips			
5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one) Mud Weight  Surface 20  6. Comments	If yes, to wha	t depth (feet	)?	Depth to v	ater (feet)		_		Monitoring W		<del>-</del>			
5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight  3/8" Bentonite Chips 20  6. Comments				40			_		-					
5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Mud Weight  3/8" Bentonite Chips Surface 20  6. Comments				18					de Sarke So			-		
6. Comments				е		From (ft.)			•					
	3/8" Bento	nite Chips				Surface	20							
	6. Comments	s									<u>l</u>			
7. Supervision of Work DNR Use Only	6. Comments													
7. Supervision of Work DNK USE Offly	7. Supervision of Work								DND Hee	Only.				
Name of Person or Firm Doing Sealing Work  Date of Abandonment  Date Received  Noted By	Name of Person or Firm Doing Sealing Work  Date of Abandonm					andonmant	Data Baasi	uod	חומע האום					
	NTS, Inc. 10/23/12				2	Date Recel	veu		inoted By					
Street or Route Telephone Number Comments P.O. Box 127 (715) 341-7974					Comments									
	City State ZIP Code					Signature of F	Person Doin	g Work		Date Sig	ned			

## Well / Drillhole / Borehole Abandonment

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Route To:									
☐ Drinking Water ☐ Watershed W	ater 🔲 V	Vaste Mana	Remediatio	n/Redevelo <sub>l</sub>	pment [	Other: _			
1. General Information				2. Facility / Owner Information					
Boring Number DNR Well ID	No.	County		Facility Name					
11		Portage		East Park (	Commerc	e Center			
Common Well Name		Gov't Lot #	f (if applic.)	Facility ID		License/Perm	it No.	City, Village, or Town	
			1_	153.66				Stevens Point	
1/4 / 1/4 Section		Township		Street Addres			_		
Crid Location	Τ-	N				ve & Hwy 1		Vall Owner	
Grid Location		Grid Origin		Present Well Owner Original Well Owner					
Feet N E	(estim		OR	Street Address or Pouto of Owner					
S W	Longitude:	Location		Street Address or Route of Owner					
Latitude: DEG MIN SEC	SEC	NE of Brilowski Rd & CTH 'HH' Intersection							
N	W								
Reason For Abandonment	placement Well	· ·							
				4. Pump, L	iner, Scree	n, Casing & S	ealing Ma	terial	
3. Well / Drillhole / Borehole Informa	tion			Pump and p	piping remov	ved?	☐ Yes	□ No ☑ N/A	
Monitoring Well	Original C	onstruction	Date	Liner(s) ren	noved?		☐ Yes	No    ✓ N/A	
	10/15/201			Screen rem	noved?		Yes	No ▼ N/A	
Water Well	If a Well C	Construction	Report is	Casing left	in place?		☐ Yes	□ No 🔽 N/A	
Borehole / Drillhole	available,	please atta	ch.	Casing cut	off below su	ırface?	☐ Yes	□ No    NA	
Construction Type:				Sealing material rise to surface?  Yes No NA					
✓ Drilled  □ Driven (sand	dpoint)	☐ Dug		Material set	ttle after 24	hrs?	Yes	No ₩ N/A	
Other (specify):				If yes, w	as hole reto	pped?	☐ Yes	□ No ☑ N/A	
Formation Type				If bentonite	chips were u	sed, were they			
✓ Unconsolidated Formation	☐ Bedre	nck			•	own safe source?	Yes	□ No 🔽 N/A	
Unconsolidated Formation	L Deur	UCK		Required Met	hod of Placi	ng Sealing Ma	terial		
Total Well Depth From Groundsurface	(ft.)	Casing Dia	ameter (in.)	_	r Pipe-Grav	_		Pipe-Pumped	
	()		,	_	and Poure		Other (exp		
Lower Drillhole Diameter (in.)		Casing De	enth (ft )	(Bentonite					
Zewei Ziminele Ziameter (iii.)		odomig Do	γμι (ια)						
				Sealing Materials  Neat Cement Grout  Clay Sand Slurry (11lb/gal wt.)					
Was Well Annular Space Grouted?	Yes	Г № Г	Unknow n	Sand Cement (concrete) Grout Bentonite-Sand Slurry					
·	100		Cinalowii	Concrete Grout Bentonite Carlo Carlo					
If yes, to what depth (feet)?	Depth to w	vater (feet)		For Monitorina Wells and Monitoring Well Boreholes Only:					
				☐ Bentonite Chips ☐ Bentonite-Cement Grout					
	14			Granular I	Bentonite		Bentonite-	Sand Slurry	
5. Material Used to Fill Well / Drillhol	е		From (ft.)	To (ft.)		ds, Sacks Sea ume (circle or		Mix Ratio or Mud Weight	
3/8" Bentonite Chips			Surface	20	10.	unic (on ole ol	10)	Widd Weight	
·									
6. Comments									
7. Supervision of Work						DNR Use C	Only		
Name of Person or Firm Doing Sealing	andonment	Date Recei	ved		Noted By				
NTS, Inc.	III Date Received INOted By								
Street or Route	Number	Comments							
P.O. Box 127	1-7974	1							
City	State	ZIP Code		Signature of F	Person Doin	g Work		Date Signed	
Stevens Point	WI	54481							

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page 1

Drinking V	Vater 🔲 \	Watershed W	ater 🔲 \	Vaste Mana	agement	Remediation/Redevelopment Other:							
1. General In	nformation					2. Facility / Owner Information							
Boring Numb	er	DNR Well ID	No.	County		Facility Name							
12				Portage		East Park (	Commerc	e Center					
Common We	ell Name			Gov't Lot #	f (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Villa Steven	age, or Town s Point		
1/4 / 1/4	1/4	Section		Township		Street Addres							
			<del>-</del>	N	□ E □ W			ve & Hwy 1					
Feet	Grid Location  N	E	(estin		OR	Present Well	Owner		Original v	Vell Owne	r		
1 11 1	□ S	W		_ocation		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersection							
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	NE OF BUILD	WSKI Ra 8	K C I H 'HH'	State	ZIP Code	Э		
Reason For A	Abandonmen		1	Vell No. of Re	placement Well	1							
						4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Dril	Ihole / Bore	hole Informa	tion		Pump and	oiping remo	ved?	☐ Yes	□ No	<b>V</b> N∕A			
Original Construction Date						Liner(s) rem	noved?		☐ Yes	☐ No	<b>V</b> N∕A		
Monitoring Well 10/15/2012						Screen rem	oved?		Yes	☐ No	<b>✓</b> N/A		
Water Well If a Well Construction Report is						Casing left in place?							
✓ Borehole	e / Drillhole		available,	please atta	ch.	Casing cut off below surface?							
Construction Type:						_ 163					□ N/A		
✓ Drilled ☐ Driven (sandpoint) ☐ Dug						I					<b>V</b> N∕A		
Other (specify):						If yes, w	as hole reto	pped?	Yes	□ No	<b>▼</b> N/A		
Formation Ty	/pe					If bentonite	chips were u	sed, were they					
✓ Unconso	olidated Forn	nation	☐ Bedr	ock			•	own safe source?	√ ☐ Yes	☐ No	<b>V</b> N∕A		
						Required Met	hod of Placi	ng Sealing Ma	aterial				
Total Well De	epth From Gi	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp		nped		
Lower Drillho	le Diameter	(in.)		Casing De	epth (ft.)	(Bentonite	e Chips)						
						Sealing Mater	ials		,				
Was Well An	-		☐ Yes		Unknow n	Concrete Bentonite Chips							
If yes, to wha	t depth (feet	)?	Depth to v	ater (feet)		_		Monitoring W		=			
						Bentonite		-	Bentonite-				
			14			Granular E		ds, Sacks Se	Bentonite-		Ratio or		
5. Material U			е		From (ft.)	To (ft.)		ume (circle o			d Weight		
3/8" Bento	nite Chips				Surface	20							
6. Comment	c									L			
o. Comment	3												
7. Supervision				1_				DNR Use					
Name of Person or Firm Doing Sealing Work NTS, Inc. Date of Abandonment 10/15/12 Street or Route Telephone Number					nt Date Received Noted By								
Street or Route Telephone Number P.O. Box 127 (715) 341-7974													
City Stevens Po			State WI	ZIP Code 54481		Signature of Person Doing Work Date Signed				ned			

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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☐ Drinking Water ☐ Watershed W	ater 🔲 \	Waste Mana	agement	Remediation/Redevelopment Other:							
1. General Information				2. Facility / Owner Information							
Boring Number DNR Well ID	No.	County		Facility Name	<b>!</b>						
13		Portage		East Park (	Commerc	e Center					
Common Well Name		Gov't Lot #	f (if applic.)	Facility ID 153.66		License/Perm	it No.	City, Village, or Town Stevens Point			
1/4 / 1/4 1/4 Section		Township		Street Addres							
		N	□ E □ W			ve & Hwy 1					
Grid Location  Feet N E	(estin		OR	Present Well	Owner		Original v	Vell Owner			
S W		Location		Street Address or Route of Owner  NE of Brilowski Rd & CTH 'HH' Intersection							
Latitude: DEG MIN SEC N	Longitude: DEG	MIN	SEC W	NE OF BUILD	WSKI Ra 8	k CTH THH	State	ZIP Code			
Reason For Abandonment		Vell No. of Re	placement Well	1							
				4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Drillhole / Borehole Informa	tion			Pump and	oiping remo	ved?	☐ Yes	□ No ☑ N/A			
- M 2 : M/II	Date	Liner(s) rem	noved?		☐ Yes	□ No ☑ N/A					
Monitoring Well		Screen rem	oved?		Yes	□ No 🔽 N/A					
Water Well	Report is	Casing left in place?									
Borehole / Drillhole	available,	please atta	ch.	Casing cut off below surface? ☐ Yes ☐ No ☑ NA							
Construction Type:		Sealing material rise to surface?    ✓ Yes    No    NA									
✓ Drilled ☐ Driven (sand		Material settle after 24 hrs?									
Other (specify):		If yes, w	as hole reto	pped?	Yes	□ No ☑ N/A					
Formation Type				If bentonite	chips were u	sed, were they					
✓ Unconsolidated Formation	☐ Bedr	ock			•	own safe source?	☐ Yes	□ No ☑ N/A			
				Required Met	hod of Placi	ng Sealing Ma	terial				
Total Well Depth From Groundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp	· Pipe-Pumped plain):			
Lower Drillhole Diameter (in.)		Casing De	pth (ft.)	(Bentonite	e Chips)						
				Sealing Mater	rials						
Was Well Annular Space Grouted?	☐ Yes		Unknow n	Concrete Bentonite Chips							
If yes, to what depth (feet)?	Depth to v	vater (feet)		_		Monitoring W		<del>-</del>			
	4.5			Bentonite	· ·			Cement Grout			
	15			Granular E		ds. Sacks Sea		Sand Slurry  Mix Ratio or			
5. Material Used to Fill Well / Drillhol	е		From (ft.)	To (ft.)	-	ume (circle o		Mud Weight			
3/8" Bentonite Chips			Surface	20							
6. Comments											
o. Comments											
7. Supervision of Work						DNR Use (					
Name of Person or Firm Doing Sealing NTS, Inc. Street or Route	nt Date Received Noted By										
Street or Route P.O. Box 127	Comments										
City Stevens Point	State WI	(715) 34 ZIP Code 54481		Signature of Person Doing Work Date Signed							

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Drinking V	Vater 🔲 \	Watershed W	ater 🔲 \	Vaste Mana	agement	Remediation/Redevelopment Other:							
1. General Ir	nformation					2. Facility / Owner Information							
Boring Numb	er	DNR Well ID	No.	County		Facility Name							
14				Portage		East Park (	Commerc	e Center					
Common We	ell Name			Gov't Lot #	f (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Village, or To Stevens Point	own		
1/4 / 1/4	1/4	Section		Township		Street Addres							
				N	□ E □ W	NE Corner		ve & Hwy 1					
Feet	Grid Location	E	(estin		OR	Present Well	Owner		Original v	Vell Owner			
1 11 1	□ S	W		_ocation		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersection							
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	INE OF BILLO	WSKI KO č	X CIH HH	State	ZIP Code			
Reason For A	Abandonmer			Vell No. of Re	placement Well	1							
						4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Dril	lhole / Bore	hole Informa	tion			Pump and	oiping remo	ved?	☐ Yes	□ No 🔽 N/A			
Original Construction Date						Liner(s) rem	noved?		Yes	□ No ☑ N/A			
Monitoring Well 10/23/2012						Screen rem	oved?		Yes	□ No 🔽 N/A			
Water Well  If a Well Construction Report is						Casing left in place? ☐ Yes ☐ No ▼ N/A							
✓ Borehole	e / Drillhole		available,	please atta	ch.	Casing cut off below surface? ☐ Yes ☐ No ▼ NA							
Construction Type:						Sealing material rise to surface?  Yes No NA							
✓ Drilled ☐ Driven (sandpoint) ☐ Dug						Material settle after 24 hrs?							
Other (specify):						If yes, w	as hole reto	opped?	Yes	□ No ☑ N/A			
Formation Ty	/pe					If bentonite	chips were u	sed, were they					
✓ Unconso	olidated Forn	nation	☐ Bedr	ock			•	own safe source?	□ ∨	□ No ☑ N/A	١		
						Required Met	hod of Placi	ing Sealing Ma	aterial				
Total Well De	epth From G	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp	Pipe-Pumped blain):			
Lower Drillho	le Diameter	(in.)		Casing De	epth (ft.)	(Bentonite	e Chips)						
						Sealing Mater	ials		,				
Was Well An			☐ Yes		Unknow n	Concrete Bentonite Chips					t.)		
If yes, to wha	t depth (feet	)?	Depth to v	ater (feet)		_		Monitoring W		<del>-</del>			
			47.5			Bentonite		-		Cement Grout Sand Slurry			
			17.5			Granular I		ds, Sacks Se		Mix Ratio or	,		
5. Material U			е		From (ft.)	To (ft.)		lume (circle o		Mud Weight			
3/8" Bento	nite Chips				Surface	20							
6. Comment	s												
								DND II.	01				
7. Supervision of Work  Name of Person or Firm Doing Sealing Work  Date of Abandonment						Dets Desi		DNR Use					
NTS, Inc. 10/23/12					Date Recei	vea		Noted By					
Street or Route Telephone Number P.O. Box 127 (715) 341-7974													
City Stevens P	oint		State WI	ZIP Code 54481		Signature of Person Doing Work Date Signed							

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☐ Drinking Water ☐ Watershed Water ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other:	Remediation/Redevelopment Other:							
1. General Information 2. Facility / Owner Information	2. Facility / Owner Information							
Boring Number DNR Well ID No. County Facility Name								
15 Portage East Park Commerce Center								
	age, or Town s Point							
1/4 / 1/4 Section Township Range Street Address of Well								
N ☐ E ☐ W NE Corner Badger Ave & Hwy 10								
Grid Location  Feet N E (estimated) OR  Present Well Owner Original Well Owner	r							
Street Address or Route of Owner								
Latitude:  DEG MIN SEC DEG MIN SEC  N W N N N N N N N N N N N N N N N N N	e							
Reason For Abandonment WI Unique Well No. of Replacement Well								
4. Pump, Liner, Screen, Casing & Sealing Material	4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Drillhole / Borehole Information Pump and piping removed?	<b>V</b> N∕A							
Original Construction Date Liner(s) removed?	<b>V</b> N∕A							
Monitoring Well  10/15/2012  Screen removed?  Yes No	<b>✓</b> N/A							
☐ Water Well  If a Well Construction Report is  Casing left in place?  ☐ Yes ☐ No	<b>✓</b> N/A							
Borehole / Drillhole available, please attach. Casing cut off below surface?	<b>V</b> N∕A							
Construction Type: Sealing material rise to surface?   ▼ Yes  No	□ N/A							
✓ Drilled □ Driven (sandpoint) □ Dug Material settle after 24 hrs? □ Yes □ No	<b>✓</b> N/A							
Other (specify): If yes, was hole retopped? Yes No	<b>▼</b> N/A							
Formation Type  If bentonite chips were used, were they								
✓ Unconsolidated Formation ☐ Bedrock	<b>▼</b> N/A							
Required Method of Placing Sealing Material								
Total Well Depth From Groundsurface (ft.)  Casing Diameter (in.)  Conductor Pipe-Gravity  Conductor Pipe-Pun  Screened and Poured  Other (explain):	nped							
Lower Drillhole Diameter (in.)  Casing Depth (ft.)  (Bentonite Chips)								
Sealing Materials								
Was Well Annular Space Grouted? Yes No Unknown Sand Cement Grout Cay Sand Slurry (* Dentonite-Sand Slurry (* Dentonite-Sand Slurry (* Dentonite Sand Cement (concrete) Grout Bentonite Sand Slurry (* Dentonite Sand Slurry (								
If yes, to what depth (feet)?  Depth to water (feet)  For Monitoring Wells and Monitoring Well Boreholes Only:								
Bentonite Chips Rentonite-Cement C								
14 Granular Bentonite Bentonite-Sand Slui	Ratio or							
5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Mu	d Weight							
3/8" Bentonite Chips Surface 20								
6. Comments								
U. Comments								
7. Supervision of Work DNR Use Only								
Name of Person or Firm Doing Sealing Work NTS, Inc. Date of Abandonment 10/15/12 Street or Route Date Received Comments								
Street or Route Telephone Number Comments P.O. Box 127 (715) 341-7974								
City State ZIP Code Signature of Person Doing Work Date Sig Stevens Point WI 54481	ned							

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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☐ Drinking Water ☐ Watershed Water ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other:	Remediation/Redevelopment Other:							
1. General Information 2. Facility / Owner Information	2. Facility / Owner Information							
Boring Number DNR Well ID No. County Facility Name								
16 Portage East Park Commerce Center								
Common Well Name Gov't Lot # (if applic.) Facility ID License/Permit No. City, Village 153.66 Stevens	ge, or Town Point							
1/4 / 1/4 Section Township Range Street Address of Well								
N □ E □ W NE Corner Badger Ave & Hwy 10								
Grid Location  Feet N E (estimated) OR  Present Well Owner Original Well Owner	Oliginal Well Owner							
Street Address or Route of Owner								
Latitude:  DEG MIN SEC DEG MIN SEC N State ZIP Code  N SEC N State ZIP Code								
Reason For Abandonment WI Unique Well No. of Replacement Well								
4. Pump, Liner, Screen, Casing & Sealing Material	4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Drillhole / Borehole Information Pump and piping removed?	<b>V</b> N∕A							
Original Construction Date Liner(s) removed?	<b>V</b> N∕A							
Monitoring Well  10/15/2012  Screen removed?  Yes No	<b>✓</b> N⁄A							
☐ Water Well  If a Well Construction Report is  Casing left in place?  ☐ Yes ☐ No	<b>✓</b> N⁄A							
✓ Borehole / Drillhole       available, please attach.         Casing cut off below surface?       ☐ Yes	<b>V</b> N∕A							
Construction Type: Sealing material rise to surface?   ▼ Yes No	□ N/A							
✓ Drilled □ Driven (sandpoint) □ Dug Material settle after 24 hrs? □ Yes □ No	<b>V</b> N∕A							
☐ Other (specify): If yes, was hole retopped? ☐ Yes ☐ No	<b>V</b> N∕A							
Formation Type  If bentonite chips were used, were they								
✓ Unconsolidated Formation ☐ Bedrock  hydrated with water from a known safe source? ☐ Yes ☐ No	<b>▼</b> N/A							
Required Method of Placing Sealing Material								
Total Well Depth From Groundsurface (ft.)  Casing Diameter (in.)  Conductor Pipe-Gravity  Conductor Pipe-Pump  Screened and Poured  Other (explain):	ped							
Lower Drillhole Diameter (in.)  Casing Depth (ft.)  (Bentonite Chips)								
Sealing Materials								
Was Well Annular Space Grouted?								
If yes, to what depth (feet)? Depth to water (feet) For Monitoring Wells and Monitoring Well Boreholes Only:								
Bentonite Chips Bentonite-Cement Gro								
14 Granular Bentonite Bentonite-Sand Slurry No. Yards, Sacks Sealant or Mix F	y Ratio or							
5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Mud	Weight							
3/8" Bentonite Chips Surface 20								
6. Comments								
6. Comments								
7. Supervision of Work DNR Use Only								
Name of Person or Firm Doing Sealing Work NTS, Inc. Date of Abandonment 10/15/12  Street or Route Date Received Noted By Comments								
Street or Route Telephone Number Comments P.O. Box 127 (715) 341-7974								
City State ZIP Code Signature of Person Doing Work Date Signature Stevens Point WI 54481	ed							

Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Drinking V	Vater 🔲 V	Watershed W	ater $ abla$ \	Vaste Mana	agement	Remediation/Redevelopment Other:							
1. General Ir	nformation					2. Facility / Owner Information							
Boring Numb	er	DNR Well ID	No.	County		Facility Name							
17				Portage		East Park (	Commerc	1					
Common We	ell Name			Gov't Lot #	f (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Villa Stevens	ige, or Town s Point		
1/4 / 1/4	1/4	Section		Township		Street Addres							
			<del>-</del>	N	□ E □ W			ve & Hwy 1					
Feet	Grid Location	<u> </u>	(estin		OR	Present Well	Owner		Original v	Vell Owne	r 		
	S	W		_ocation		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersection							
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	INE OF BILLO	WSKI KO 8	K C I H 'HH'	State	ZIP Code	)		
Reason For A	Abandonmer		1	Vell No. of Re	placement Well	1							
						4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Dril	lhole / Bore	hole Informa	tion		Pump and	oiping remo	ved?	☐ Yes	□ No	<b>✓</b> N/A			
Original Construction Date						Liner(s) ren	noved?		☐ Yes	☐ No	<b>✓</b> N⁄A		
Monitoring Well 10/16/2012						Screen rem	oved?		Yes	☐ No	<b>✓</b> N⁄A		
Water Well If a Well Construction Report is					Report is	Casing left	in place?		Yes	☐ No	<b>✓</b> N⁄A		
Borehole / Drillhole available, please attach.						Casing cut off below surface? ☐ Yes ☐ No ☑ N/A							
Construction Type:						Sealing material rise to surface? Yes No							
✓ Drilled ☐ Driven (sandpoint) ☐ Dug						Material settle after 24 hrs?					<b>✓</b> N/A		
Othe	r (specify):					If yes, w	as hole reto	pped?	Yes	□ No	<b>✓</b> N/A		
Formation Ty	/pe					If bentonite	chips were u	sed, were they	_				
✓ Unconso	olidated Forn	nation	☐ Bedr	ock		hydrated with wa	ater from a kno	own safe source?	Yes	☐ No	<b>▼</b> N/A		
						Required Met	hod of Placi	ng Sealing Ma	aterial				
Total Well De	epth From G	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp		ped		
Lower Drillho	le Diameter	(in.)		Casing De	epth (ft.)	(Bentonite	e Chips)						
		. ,				Sealing Mater	ials						
Was Well An			☐ Yes		Unknow n	Neat Cem Sand Cem Concrete	ent Grout nent (concre	~	Bentonite Bentonite	-Sand Slu Chips	1lb/gal w t.) rry		
If yes, to wha	it depth (feet	)?	Depth to v	vater (feet)		_		Monitoring W		=			
			14.5			☐ Bentonite ☐ Granular B			Bentonite- Bentonite-				
5. Material U	Ised to Fill V	Vell / Drillhol	•		From (ft.)	To (ft.)	No. Yar	ds, Sacks Sea	alant or	Mix	Ratio or		
3/8" Bento	nite Chins				Surface	20			,	ivide	a vveigiit		
3/8" Bentonite Chips Surface													
6. Comment	s												
7. Supervisi	on of Work							DNR Use	Only				
Name of Person or Firm Doing Sealing Work Date of Abandonment						Date Recei	ved		Noted By				
NTS, Inc. 10/16/12								<u></u>					
P.O. Box 127 (715) 341-7974													
City Stevens P	oint	_	State WI	ZIP Code 54481	_	Signature of Person Doing Work Date Signed							

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## Well / Drillhole / Borehole Abandonment

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1. General Information  Boring Number 18 DNR Well ID No. County Portage East Park Commerce Center  Common Well Name Gov't Lot # (if applic.) Facility ID License/Permit No. City, Village, or Stevens Portage Street Address of Well								
18 Portage East Park Commerce Center  Common Well Name Gov't Lot # (if applic.) Facility ID License/Permit No. City, Village, or Stevens Po								
Common Well Name Gov't Lot # (if applic.) Facility ID License/Permit No. City, Village, 0 Stevens Po								
153.66 Stevens Po								
1/4 Section Township Range Street Address of Well								
N □ E □ W NE Corner Badger Ave & Hwy 10								
Grid Location  Feet N E (estimated) OR  Present Well Owner Original Well Owner								
Street Address or Route of Owner								
Latitude:  DEG MIN SEC DEG MIN SEC N State ZIP Code								
Reason For Abandonment WI Unique Well No. of Replacement Well								
4. Pump, Liner, Screen, Casing & Sealing Material	4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Drillhole / Borehole Information Pump and piping removed?	N/A							
Original Construction Date Liner(s) removed?	N/A							
	N/A							
	N/A							
Borehole / Drillhole available, please attach. Casing cut off below surface?	N/A							
Construction Type: Sealing material rise to surface?   ▼ Yes No □	N/A							
E-m.	N/A							
Other (and its)	N/A							
Formation Type								
✓ Unconsolidated Formation ☐ Bedrock	N/A							
Required Method of Placing Sealing Material								
Total Well Depth From Groundsurface (ft.)  Casing Diameter (in.)  Conductor Pipe-Gravity  Conductor Pipe-Pumped  Screened and Poured  Other (explain):								
Lower Drillhole Diameter (in.)  Casing Depth (ft.)  (Bentonite Chips)								
Sealing Materials								
Was Well Annular Space Grouted? Yes No Unknown Sand Cement Grout Sand Slurry (11lb/g Sand Cement (concrete) Grout Sentonite-Sand Slurry Concrete	alwt.)							
If yes, to what depth (feet)? Depth to water (feet) For Monitoring Wells and Monitoring Well Boreholes Only:								
Bentonite Chips Bentonite-Cement Grout								
14 Granular Bentonite Bentonite-Sand Slurry  No. Yards, Sacks Sealant or Mix Rati	o or							
5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Mud We								
3/8" Bentonite Chips Surface 20								
6. Comments								
u. Comments								
7. Supervision of Work DNR Use Only								
Name of Person or Firm Doing Sealing Work NTS, Inc. Date of Abandonment 10/16/12  Street or Route Date Received Comments								
Street or Route Telephone Number Comments P.O. Box 127 (715) 341-7974								
City State ZIP Code Signature of Person Doing Work Date Signed Stevens Point WI 54481								

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## Well / Drillhole / Borehole Abandonment

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Drinking V	Vater 🔲 \	Watershed W	ater 🔲 \	Vaste Mana	agement	Remediation/Redevelopment Other:							
1. General Ir	formation					2. Facility / Owner Information							
Boring Numb	er	DNR Well ID	No.	County		Facility Name							
19				Portage		East Park (	Commerc	e Center					
Common We	ell Name			Gov't Lot #	f (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Village, or Stevens Poi			
1/4 / 1/4	1/4	Section		Township		Street Addres							
			<del>-</del>	N	□ E □ W	NE Corner		ve & Hwy 1					
Feet	Grid Location  N	<u> </u>	(estin		OR	Present Well	Owner		Original v	Vell Owner			
1 22 1	S	W		_ocation		Street Address or Route of Owner NE of Brilowski Rd & CTH 'HH' Intersection							
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	NE OF BUILD	WSKI Ra 8	K CTH THH	State	ZIP Code			
Reason For A	Abandonmen		1	Vell No. of Re	placement Well	1							
						4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Dril	lhole / Bore	hole Informa	tion			Pump and	oiping remo	ved?	☐ Yes	□ No □ N	VΑ		
Original Construction Date						Liner(s) rem	noved?		Yes	□ No ☑ N			
Monitoring Well 10/23/2012						Screen rem	oved?		Yes	□ No 🔽 N	٧A		
Water Well  If a Well Construction Report is						Casing left in place? ☐ Yes ☐ No ☑ N/A							
✓ Borehole	e / Drillhole		available,	please atta	ch.	Casing cut off below surface?							
Construction Type:						_ 1es _ 100 _ 110					VA		
✓ Drilled ☐ Driven (sandpoint) ☐ Dug											VA		
Other (specify):						If yes, w	as hole reto	opped?	Yes	□ No ☑ 1	\/Δ		
Formation Ty	rpe					If bentonite	chips were u	sed, were they					
✓ Unconso	olidated Forn	nation	☐ Bedr	ock			•	own safe source?	U Vaa	□ No 🔽	NA		
						Required Met	hod of Placi	ing Sealing Ma	aterial				
Total Well De	epth From Gi	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp	· Pipe-Pumped blain):			
Lower Drillho	le Diameter	(in.)		Casing De	epth (ft.)	(Bentonite	e Chips)						
						Sealing Mater	ials						
Was Well An			☐ Yes		Unknow n	Neat Cement Grout  Sand Cement (concrete) Grout  Concrete  Concrete  For Monitoring Wells and Monitoring Well Boreholes Only:  Cay Sand Slurry (11lb/gal w t  Bentonite-Sand Slurry  Bentonite Chips					ıl w t.)		
If yes, to wha	t depth (feet)	)?	Depth to v	vater (feet)		_		Monitoring W		=			
			175			☐ Bentonite ☐ Granular B		-		Cement Grout Sand Slurry			
			17.5					ds, Sacks Se		Mix Ratio	or		
5. Material U			е		From (ft.)	To (ft.)	Vol	lume (circle o	ne)	Mud Weig	ght		
3/8" Bento	nite Chips				Surface	20							
6. Comment	s												
								DND II.	01				
7. Supervision		Daile at C !!	\A/I	lpara tre	andan :	D-1: D :		DNR Use					
Name of Person or Firm Doing Sealing Work NTS, Inc.  Date of Abandonment 10/23/12					Date Recei	vea		Noted By					
Street or Route Telephone Number P.O. Box 127 (715) 341-7974													
City Stevens P	oint		State WI	ZIP Code 54481		Signature of Person Doing Work Date Signed							

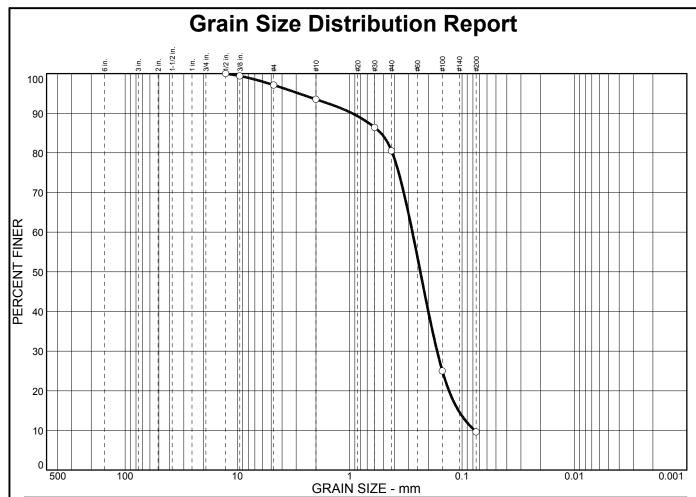
Route To:

## Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page 1

Drinking V	Vater 🔲 \	Watershed W	ater 🔲 \	Waste Mana	agement	Remediation/Redevelopment Other:							
1. General In	formation					2. Facility / Owner Information							
Boring Numb	er	DNR Well ID	No.	County		Facility Name							
20				Portage		East Park (	Commerc	e Center		_			
Common We	ell Name			Gov't Lot #	f (if applic.)	Facility ID 153.66		License/Perm	nit No.	City, Villa Steven	age, or Town s Point		
1/4 / 1/4	1/4	Section		Township		Street Addres							
			<del>-</del>	N	□ E □ W			ve & Hwy 1					
Feet	Grid Location  N	<u> </u>	(estin		OR	Present Well	Owner		Original v	Vell Owne	r		
1 11 1	□ S	W		Location		Street Address or Route of Owner  NE of Brilowski Rd & CTH 'HH' Intersection							
Latitude: DEG	MIN	SEC N	Longitude: DEG	MIN	SEC W	INE OF BILLO	WSKI KO č	K C I H HH	State	ZIP Code	e		
Reason For A	Abandonmen		1	Vell No. of Re	placement Well	1							
						4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Drill	lhole / Bore	hole Informa	tion		Pump and	oiping remo	ved?	☐ Yes	□ No	<b>V</b> N∕A			
Original Construction Date						Liner(s) rem	noved?		Yes	☐ No	<b>V</b> N∕A		
Monitoring Well 10/23/2012						Screen rem	oved?		Yes	☐ No	<b>✓</b> N/A		
Water Well  If a Well Construction Report is						Casing left in place?							
✓ Borehole	e / Drillhole		available,	please atta	ch.	Casing cut off below surface? ☐ Yes ☐ No ▼ NA							
Construction	Type:		•			Sealing material rise to surface?    ✓ Yes    No    NA							
✓ Drilled  □ Driven (sandpoint) □ Dug						Material settle after 24 hrs?							
Other (specify):						If yes, w	as hole reto	pped?	Yes	□ No	<b>▼</b> N/A		
Formation Ty	rpe					If bentonite	chips were u	sed, were they					
✓ Unconsc	olidated Forn	nation	☐ Bedr	ock			•	own safe source?	Yes	☐ No	<b>V</b> N∕A		
								ng Sealing Ma	aterial				
Total Well De	epth From Gi	roundsurface	(ft.)	Casing Dia	ameter (in.)		r Pipe-Grav I and Poure	_	Conductor Other (exp		nped		
Lower Drillho	le Diameter	(in.)		Casing De	pth (ft.)	(Bentonite	e Chips)						
						Sealing Mater	ials		101 0		40.7.1.4		
Was Well An			☐ Yes	□ No □	Unknow n	Concrete Bentonite Chips							
If yes, to wha	t depth (feet	)?	Depth to v	vater (feet)		_		Monitoring W		=			
						☐ Bentonite			Bentonite-				
			17			Granular E		ds. Sacks Sea	Bentonite-		Ratio or		
5. Material U			е		From (ft.)	To (ft.)		ume (circle o			d Weight		
3/8" Bento	nite Chips				Surface	20							
6. Comments	e												
o. comment													
7 Companyisi	an of Monte							DNR Use	Only				
7. Supervision of Work  Name of Person or Firm Doing Sealing Work  Date of Abandonment						Date Recei	ved	DIAIL 026 (	Noted By				
NTS, Inc. 10/23/12					Date Recei	veu		Noted By					
Street or Route Telephone Number P.O. Box 127 (715) 341-7974													
City Stevens Po			State WI	ZIP Code 54481		Signature of Person Doing Work Date Signed				ned			



% COBBLES	% GR	AVEL		% SAN	D	% FINES		
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY	
0.0	0.0	2.9	3.6	13.0	70.9	9.6		

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.5 in. .375 in. #4 #10 #30 #40 #100 #200	100.0 99.4 97.1 93.5 86.4 80.5 25.0 9.6		

SAND, Brown, F-M, Little Silt, Trace Gravel							
PL=	Atterberg Limits LL=	PI=					
D <sub>85</sub> = 0.529 D <sub>30</sub> = 0.167 C <sub>u</sub> = 3.58	Coefficients $D_{60} = 0.277$ $D_{15} = 0.108$ $C_c = 1.30$	D <sub>50</sub> = 0.236 D <sub>10</sub> = 0.0775					
USCS= SP-SM	Classification AASHTO	=					
	<u>Remarks</u>						

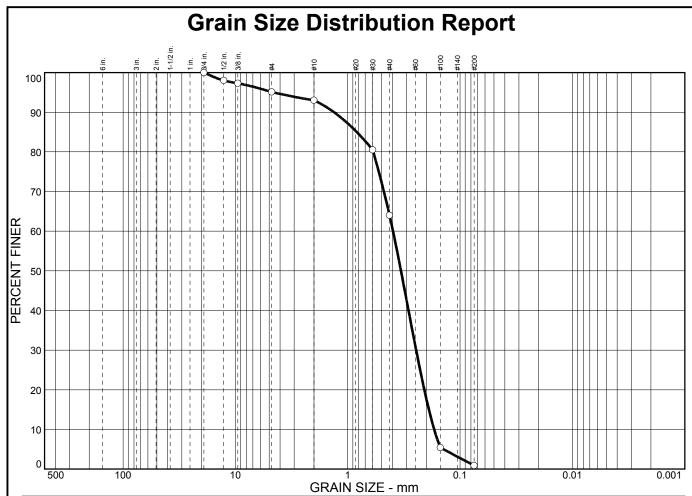
Sample No.: B1, S1 Location: Source of Sample: B1, S1

Date: Elev./Depth: 0'-2'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



% CORRIES	% GRAVEL		% SAND		% FINES		
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	4.9	2.1	29.0	63.1	0.9	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.75 in. .5 in. .375 in. #4 #10 #30 #40 #100 #200	100.0 98.0 97.3 95.1 93.0 80.5 64.0 5.4 0.9		

SAND, Light Brown, F-M, Trace Gravel							
PL=	Atterberg Limits	PI=					
D <sub>85</sub> = 0.832 D <sub>30</sub> = 0.246 C <sub>u</sub> = 2.33	$\begin{array}{c} \underline{\text{Coefficients}} \\ \text{D}_{60} = 0.396 \\ \text{D}_{15} = 0.190 \\ \text{C}_{\text{C}} = 0.90 \end{array}$	D <sub>50</sub> = 0.336 D <sub>10</sub> = 0.170					
USCS= SP	Classification AASHT	-O=					
	<u>Remarks</u>						

Sample No.: B2, S5 Location: Source of Sample: B2, S5

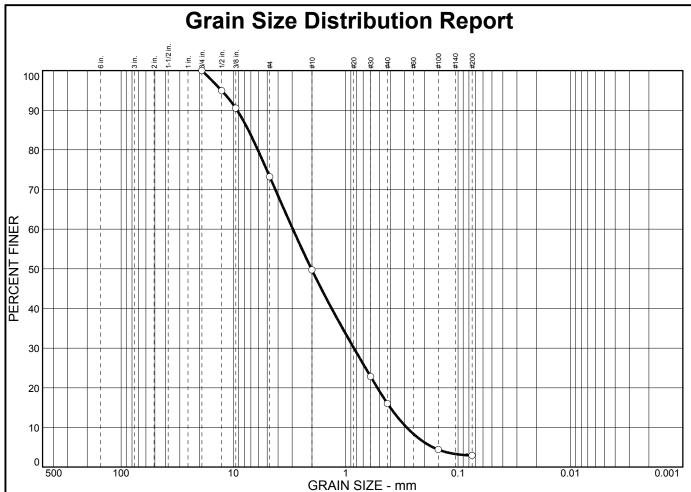
Date:

**Elev./Depth:** 14'-15.5'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



% CORRIES	% GR	AVEL	% SAND		% FINES		
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	26.8	23.5	33.7	13.1	2.9	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.75 in. .5 in. .375 in. #4 #10 #30 #40 #100 #200	100.0 94.9 90.5 73.2 49.7 22.8 16.0 4.4 2.9		

Soil Description SAND, Light Brown, F-C, Some Gravel							
PL=	Atterberg Limits	PI=					
D <sub>85</sub> = 7.37 D <sub>30</sub> = 0.847 C <sub>u</sub> = 10.29	$\begin{array}{c} \underline{\text{Coefficients}} \\ \text{D}_{60} = 2.96 \\ \text{D}_{15} = 0.402 \\ \text{C}_{\text{c}} = 0.84 \end{array}$	D <sub>50</sub> = 2.02 D <sub>10</sub> = 0.287					
USCS= SP	Classification AASH1	ГО=					
	<u>Remarks</u>						

Sample No.: B5, S4 Location:

Source of Sample: B5, S4

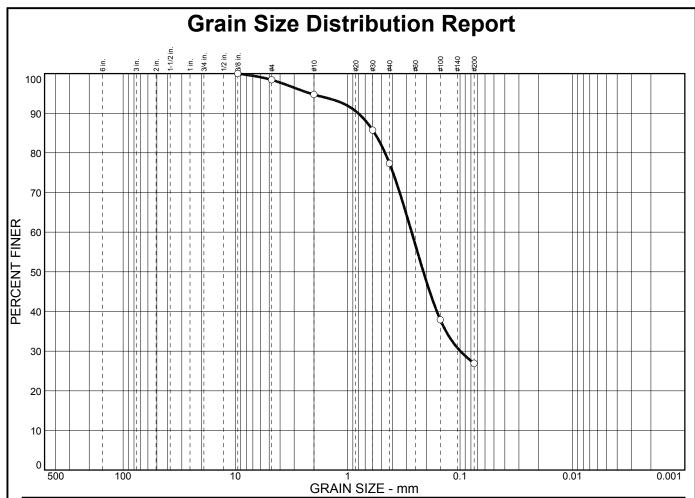
Date:

**Elev./Depth:** 9'-10.5'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



% COBBLES	% GRAVEL		% SAND			% FINES	
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	1.6	3.7	17.4	50.4	26.9	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.375 in. #4 #10 #30 #40 #100 #200	100.0 98.4 94.7 85.7 77.3 37.9 26.9	PERCENT	(X-NO)

Soil Description SAND, Brown, F-M, Some Silt							
PL=	Atterberg Limit	<u>s</u> PI=					
D <sub>85</sub> = 0.578 D <sub>30</sub> = 0.0996 C <sub>u</sub> =	$\begin{array}{c} \underline{\text{Coefficients}} \\ \text{D}_{60} = 0.270 \\ \text{D}_{15} = \\ \text{C}_{\text{C}} = \end{array}$	D <sub>50</sub> = 0.212 D <sub>10</sub> =					
USCS= SM	Classification AASH	TO=					
	<u>Remarks</u>						

Sample No.: B7, S2 Location:

Source of Sample: B7, S2

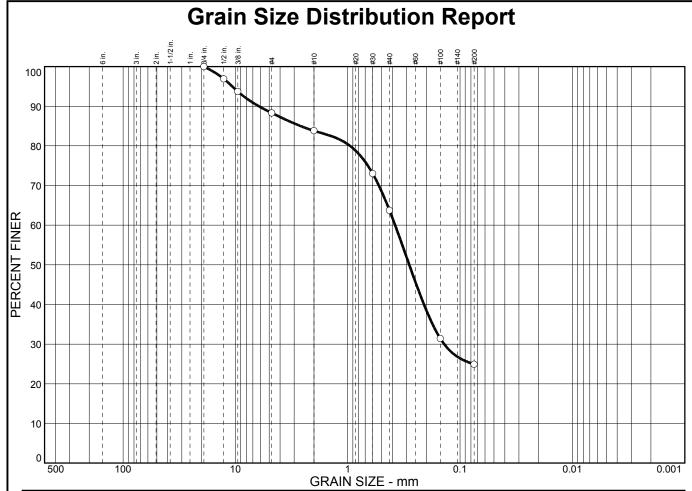
Date:

**Elev./Depth:** 3.5'-5'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



	% CORPLES	% GR	RAVEL	% SAND		% FINES		
% CC	% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
	0.0	0.0	11.7	4.5	20.1	38.8	24.9	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.75 in. .5 in. .375 in. #4 #10 #30 #40 #100 #200	100.0 96.9 93.7 88.3 83.8 73.0 63.7 31.4 24.9		

SAND, Brown, F-M, Clayey, Little Gravel					
PL=	Atterberg Limits LL=	PI=			
D <sub>85</sub> = 2.63 D <sub>30</sub> = 0.139 C <sub>u</sub> =	$\begin{array}{c} \underline{\text{Coefficients}} \\ \text{D}_{60} = \ 0.379 \\ \text{D}_{15} = \\ \text{C}_{\text{C}} = \end{array}$	D <sub>50</sub> = 0.284 D <sub>10</sub> =			
USCS= SC	Classification AASHTO	)=			
	<u>Remarks</u>				

Sample No.: B8, S1 Location:

Source of Sample: B8, S1

Date: Elev./Depth: 0'-2'

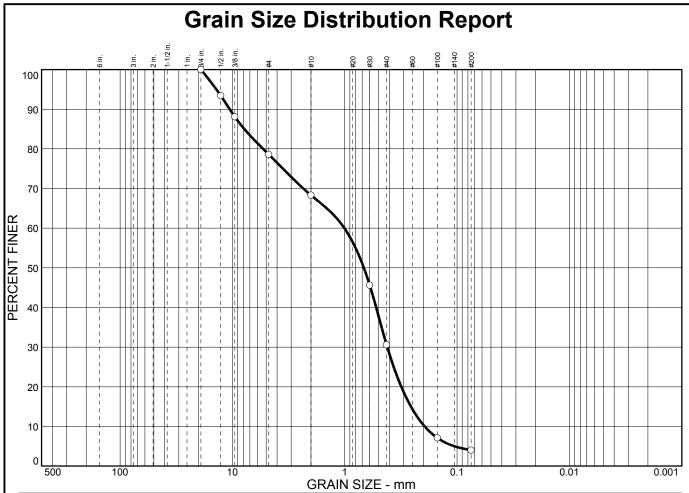
**Figure** 

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project

Project No: 153.66



% COBBLES	% GRAVEL			% SAN	ס	% FINES	
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	21.4	10.3	37.7	26.6	4.0	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.75 in. .5 in. .375 in. .375 in. #40 #30 #40 #100 #200	100.0 93.4 88.1 78.6 68.3 45.6 30.6 7.1 4.0		

Soil Description SAND, Brown, F-M, Some Gravel				
PL=	Atterberg Limits	PI=		
D <sub>85</sub> = 7.84 D <sub>30</sub> = 0.419 C <sub>u</sub> = 5.19	Coefficients D <sub>60</sub> = 1.01 D <sub>15</sub> = 0.258 C <sub>c</sub> = 0.89	D <sub>50</sub> = 0.677 D <sub>10</sub> = 0.195		
USCS= SP	Classification AASHT	ГО=		
	<u>Remarks</u>			

Sample No.: B9, S2 Location:

Source of Sample: B9, S2

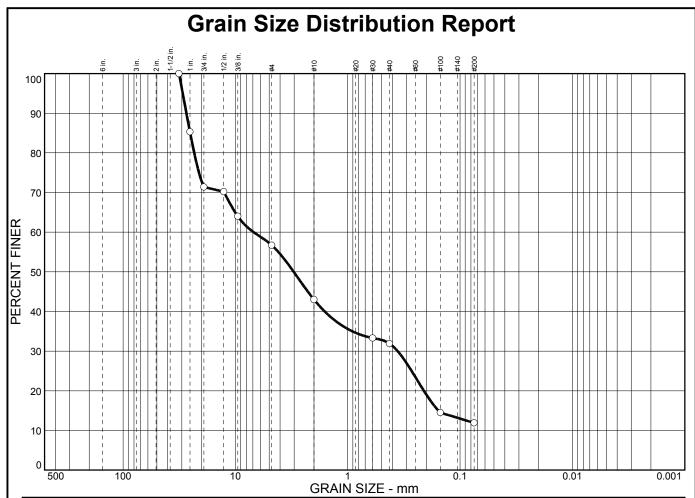
Date:

**Elev./Depth:** 3.5'-5'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



% CORRIES	% GRAVEL			% SAN	ס	% FINES	
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	28.6	14.7	13.7	11.1	20.0	11.9	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
1.25 in. 1 in. .75 in. .5 in. .375 in. #40 #100 #200	100.0 85.3 71.4 70.2 64.0 56.7 43.0 33.3 31.9 14.5 11.9		

Soil Description SAND & GRAVEL, Brown, Clayey				
PL=	Atterberg Limits	PI=		
D <sub>85</sub> = 25.3 D <sub>30</sub> = 0.360 C <sub>u</sub> =	$\begin{array}{c} \underline{\text{Coefficients}} \\ D_{60} = 6.89 \\ D_{15} = 0.156 \\ C_{\text{C}} = \end{array}$	D <sub>50</sub> = 3.03 D <sub>10</sub> =		
USCS= SP-SC	Classification AASHT	-O=		
	<u>Remarks</u>			

Sample No.: B10, S1 Location:

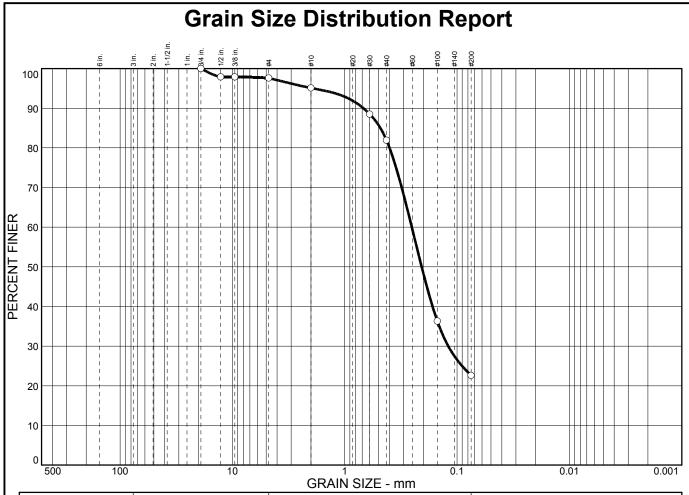
Source of Sample: B10, S1

Date: Elev./Depth: 0'-2'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



% CORRIES	% GRAVEL		% COBBLES % GRAVEL % SAND		% FINES		
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	2.4	2.5	13.2	59.3	22.6	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.75 in. .5 in. .375 in. #44 #10 #40 #100 #200	100.0 97.9 97.9 97.6 95.1 88.5 81.9 36.3 22.6		

SAND, Brown, F-M, Some Silt, Trace Gravel					
PL=	Atterberg Limits LL=	PI=			
D <sub>85</sub> = 0.482 D <sub>30</sub> = 0.120 C <sub>u</sub> =	<u>Coefficients</u> D <sub>60</sub> = 0.253 D <sub>15</sub> = C <sub>c</sub> =	D <sub>50</sub> = 0.207 D <sub>10</sub> =			
USCS= SM	Classification AASHT	O=			
	<u>Remarks</u>				

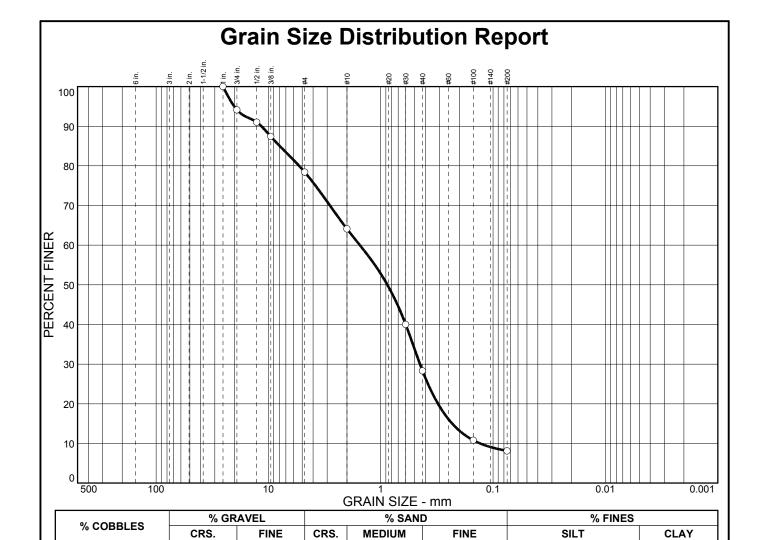
Sample No.: B11, S1 Location: Source of Sample: B11, S1

Date: Elev./Depth: 0'-2'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
1 in. .75 in. .5 in. .375 in. #4 #10 #30 #40 #100 #200	100.0 94.1 91.0 87.4 78.4 64.1 40.0 28.3 10.8 8.1		

5.9

15.7

14.3

35.8

20.2

SAND, Brown, F-C, Some Gravel, Little Silt						
	Atterberg Limits					
PL=	LL=	PI=				
D <sub>85</sub> = 7.93 D <sub>30</sub> = 0.448 C <sub>u</sub> = 11.77	$\begin{array}{c} \underline{\text{Coefficients}} \\ \text{D}_{60} = 1.54 \\ \text{D}_{15} = 0.231 \\ \text{C}_{\text{C}} = 1.00 \end{array}$	D <sub>50</sub> = 0.874 D <sub>10</sub> = 0.131				
USCS= SP-SM	Classification AASHTO	)=				
	<u>Remarks</u>					

(no specification provided)

Sample No.: B12, S2

Source of Sample: B12, S2

Date: Elev./Depth: 3.5'-5'

8.1

Location:

0.0

Client: AECOM

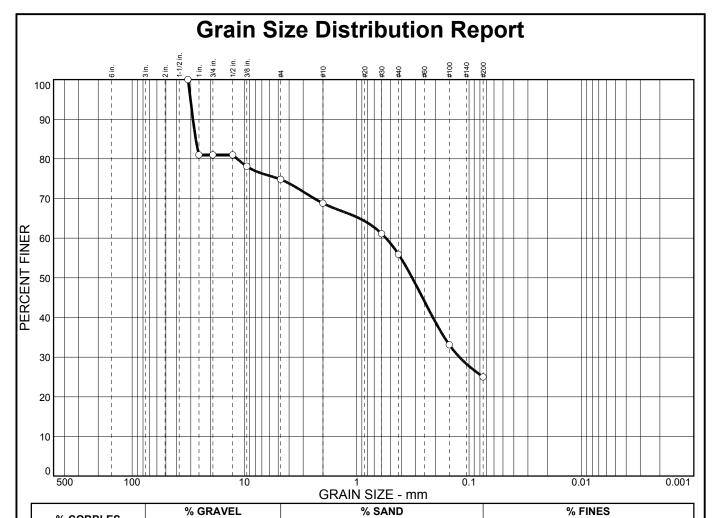
**Project:** Annexation Project

SERVICES, INC.

**NUMMELIN TESTING** 

**Project No:** 153.66

Figure



I % COBBLES													
	% СОВ	DLES	С	RS.	FIN	ΙE	CRS.	MEDIUM	FINE	SILT	CLAY		
	0.0	)	1:	9.0	6.	2	6.0	12.9	30.9	25.0	•		
	SIEVE	PERCE	ENT	SPE	EC.*	PAS	SS?	Soil Description					
	SIZE	FINE	R	PER	CENT	(X=NO)		(X=NO)		SANI	D, Brown, F-M, (	Clayey, Some Gravel	
Ī	1.25 in. 1 in.	100.0 81.0											
	.75 in.	81.0	)										

SIZE	FINER	PERCENT	(X=NO)
1.25 in.	100.0		
1 in.	81.0		
.75 in.	81.0		
.5 in.	81.0		
.375 in.	78.1		
#4 #10	74.8 68.8		
#30	61.1		
#40	55.9		
#100	33.1		
#200	25.0		

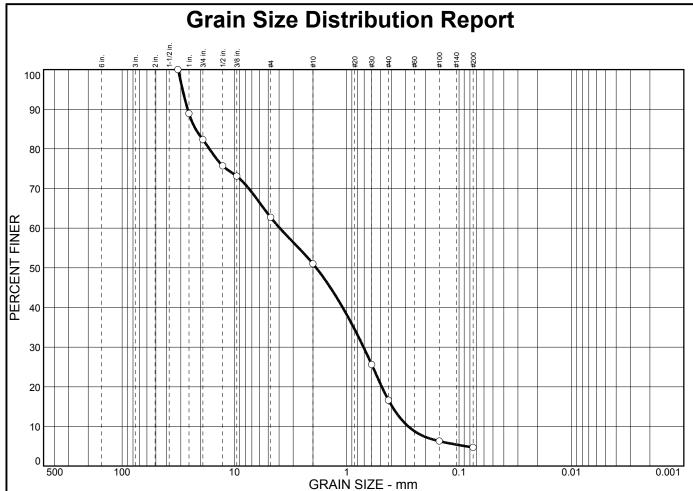
PL=	Atterberg Limits	PI=
D <sub>85</sub> = 27.1 D <sub>30</sub> = 0.122 C <sub>u</sub> =	Coefficients D <sub>60</sub> = 0.550 D <sub>15</sub> = C <sub>c</sub> =	D <sub>50</sub> = 0.321 D <sub>10</sub> =
USCS= SC	Classification AASHTO	=
	Remarks	

Sample No.: B13, S1 Source of Sample: B13, S1 Date: Location: Elev./Depth: 0'-2'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



Γ	% CORPLES	% GRAVEL		% SAND			% FINES	
	% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
	0.0	17.7	19.6	11.7	34.4	11.9	4.7	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
1.25 in. 1 in. .75 in. .5 in. .375 in. #4 #10 #30 #40 #100 #200	100.0 88.9 82.3 75.7 73.1 62.7 51.0 25.6 16.6 6.3 4.7		

SAND & GRAV	Soil Description EL, Brown	
PL=	Atterberg Limits LL=	PI=
D <sub>85</sub> = 22.2 D <sub>30</sub> = 0.710 C <sub>u</sub> = 13.91	Coefficients D60= 3.94 D15= 0.394 C <sub>C</sub> = 0.45	D <sub>50</sub> = 1.87 D <sub>10</sub> = 0.283
USCS= SP	Classification AASHT	-O=
	<u>Remarks</u>	

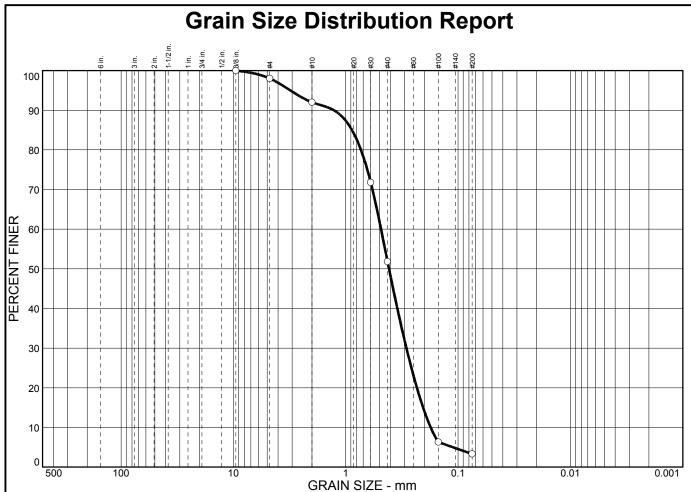
Sample No.: B14, S3 Location: Source of Sample: B14, S3

**Date: Elev./Depth:** 6'-7.5'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



% CORPLES	% GRAVEL		% SAND			% FINES	
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	2.0	6.0	40.2	48.5	3.3	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.375 in. #4 #10 #30 #40 #100 #200	100.0 98.0 92.0 71.8 51.8 6.3 3.3		

SAND, Light Bi	Soil Description rown, F-M	1
PL=	Atterberg Limits	PI=
D <sub>85</sub> = 0.881 D <sub>30</sub> = 0.289 C <sub>u</sub> = 2.77	$\begin{array}{c} \underline{\text{Coefficients}} \\ \text{D}_{60} = \ 0.486 \\ \text{D}_{15} = \ 0.205 \\ \text{C}_{\text{C}} = \ 0.98 \end{array}$	D <sub>50</sub> = 0.413 D <sub>10</sub> = 0.176
USCS= SP	Classification AASHT	ГО=
	<u>Remarks</u>	

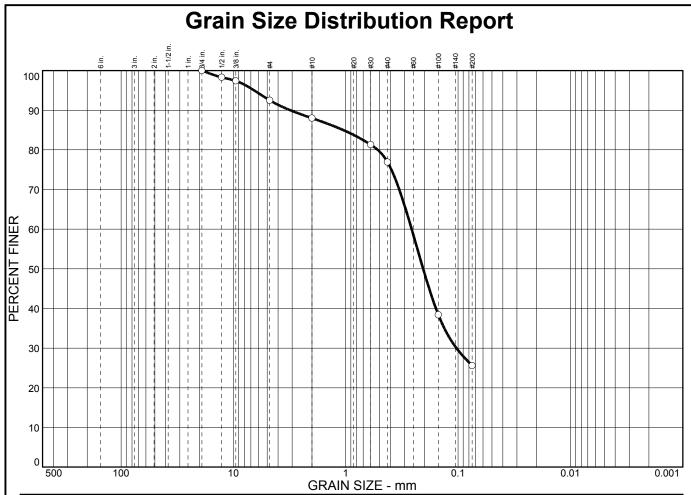
Sample No.: B15, S4 Location: Source of Sample: B15, S4

Date: Elev./Depth: 9'-10.5'

NUMMELIN TESTING SERVICES, INC.

Client: AECOM

**Project:** Annexation Project



% CORPLES	% GRAVEL		% SAND			% FINES	
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	7.5	4.5	11.1	51.3	25.6	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.75 in. .5 in. .375 in. #44 #10 #40 #100 #200	100.0 98.3 97.4 92.5 88.0 81.3 76.9 38.4 25.6		

SAND, Brown, F-M, Some Silt, Little Gravel							
PL=	Atterberg Limits	PI=					
D <sub>85</sub> = 1.05 D <sub>30</sub> = 0.104 C <sub>u</sub> =	$\begin{array}{c} \underline{\text{Coefficients}} \\ \text{D}_{60} = 0.259 \\ \text{D}_{15} = \\ \text{C}_{\text{c}} = \end{array}$	D <sub>50</sub> = 0.205 D <sub>10</sub> =					
USCS= SM	Classification AASHT	-O=					
	<u>Remarks</u>						

Sample No.: B18, S2 Location:

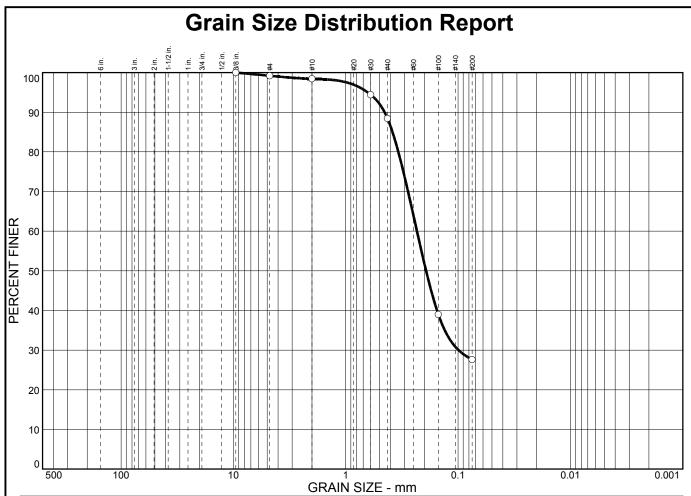
Source of Sample: B18, S2

Date: Elev./Depth: 3.5'-5'

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% COBBLES	% GRAVEL		% SAND		% FINES		
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.8	0.8	10.0	60.8	27.6	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.375 in. #4 #10 #30 #40 #100 #200	100.0 99.2 98.4 94.4 88.4 39.0 27.6	FERGENT	(X-NO)

SAND, Brown, F-M, Some Silt					
PL=	Atterberg Limit	<u>s</u> PI=			
D <sub>85</sub> = 0.384 D <sub>30</sub> = 0.0993 C <sub>u</sub> =	Coefficients D <sub>60</sub> = 0.233 D <sub>15</sub> = C <sub>c</sub> =	D <sub>50</sub> = 0.193 D <sub>10</sub> =			
USCS= SM	Classification AASH	TO=			
<u>Remarks</u>					

Sample No.: B19, S1 Location:

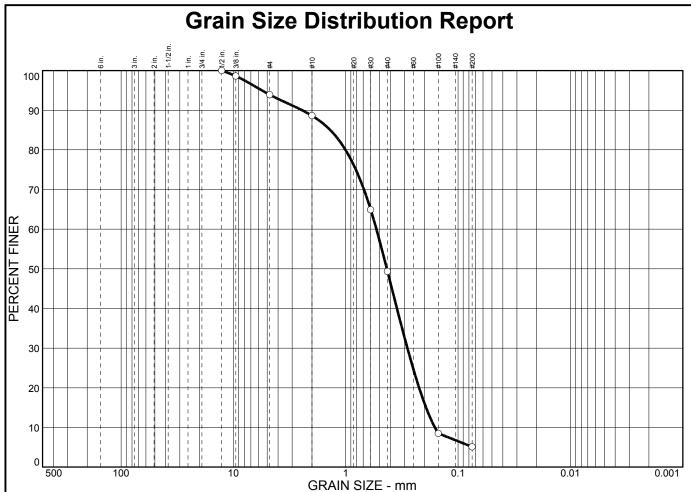
Source of Sample: B19, S1

Date: Elev./Depth: 0'-2'

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% CORRIES	% GRAVEL		% SAND			% FINES	
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	6.1	5.3	39.3	44.2	5.1	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
.5 in. .375 in. #44 #10 #30 #40 #100 #200	100.0 98.6 93.9 88.6 64.9 49.3 8.5 5.1		

Soil Description SAND, Brown, F-M, Little Silt, Little Gravel						
PL=	Atterberg Limits	PI=				
D <sub>85</sub> = 1.38 D <sub>30</sub> = 0.283 C <sub>u</sub> = 3.31	$\begin{array}{c} \underline{\text{Coefficients}} \\ \text{D}_{60} = 0.534 \\ \text{D}_{15} = 0.193 \\ \text{C}_{\text{C}} = 0.93 \end{array}$	D <sub>50</sub> = 0.431 D <sub>10</sub> = 0.161				
USCS= SP	Classification AASHT	·O=				
<u>Remarks</u>						

Sample No.: B20, S2 Location: Source of Sample: B20, S2

**Date: Elev./Depth:** 3.5'-5'

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