REPORT ON GROUNDWATER RESOURCES COHOCTON WIND POWER PROJECT COHOCTON, NEW YORK

by

Haley & Aldrich of New York Rochester, New York

for

UPC Wind Management, LLC Newton, Massachusetts

File No. 32788-000 20 March 2006



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20 March 2006 File No. 32788-000

UPC Wind Management, LLC 100 Wells Avenue Suite 201 Newton, MA 02459

Attention: Mr. David Cowan

Subject: Cohocton Wind Power Cohocton, New York

Ladies and Gentlemen:

This report presents the results of our evaluation of the hydrogeology and potential for impact to groundwater resources within the proposed Cohocton Wind Power Project area in Cohocton, New York. Our services have been performed in accordance with the Consulting Services Agreement dated 18 November 2005.

This investigation was primarily a "desktop" study, in accordance with our proposed work scope, and this report has been prepared to support your preparation of a Draft Environmental Impact Statement (DEIS) for the project.

In summary, this investigation has concluded that no significant impact to groundwater resources should occur as a result of proposed project. This is true not only for this project but for wind farm projects in general, since the construction of wind turbines and associated appurtenances employs standard, relatively simple and localized construction techniques that have no bearing on groundwater conditions. A more detailed discussion of this subject is included in the attached report.

Please contact the undersigned with any questions regarding the work performed or

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Washington District of Columbia UPC Wind Management, LLC 20 March 2006 Page 2

information provided herein.

Sincerely yours, HALEY & ALDRICH OF NEW YORK

Romahaney

Robert J. Mahoney Senior Environmental Geologist

Topole

Vincent B. Dick Vice President

Enclosures

c: John Hecklau, EDR PC



EXECUTIVE SUMMARY

Haley & Aldrich has performed an assessment of the potential for impact to groundwater resources by the proposed Cohocton Wind Power Project. The evaluation has been performed for UPC Wind Management, LLC of Newton, Massachusetts, the owner of the proposed project. The project will include installation of up to 48 wind turbines in upland areas, associated access roads to the turbine locations, electric power transmission lines (underground and overhead), structures and a substation. The resulting power generated by the project would be tied into an existing electrical grid power transmission line in the area.

The project is located in an area that is largely rural and land use is primarily agricultural. Private residences are located throughout the area and tend to be clustered along valley roadways; the turbines are located along the tops of several adjoining plateaus. Private water supply for the residences is primarily achieved through the use of drilled wells in both bedrock and overburden. Groundwater springs may also be used but to a much lesser degree.

Our evaluation has involved assembling and evaluating readily-available published information on geologic and hydrogeologic conditions in the project locale. The proposed construction elements of the project have been assessed in terms of the potential for adverse impact to existing hydrogeologic resources. The project will entail relatively routine construction that will primarily involve common building materials and methods such as formed concrete with steel reinforcing and utility trenching.

In summary, the proposed construction does not appear to have potential for significant impact to groundwater used for potable purposes in the project area. Wind Farm projects have been shown in general to have no appreciable impacts to groundwater. Wind farm projects typically do not have demonstrable impacts to groundwater resources. They do not utilize groundwater for generating energy. They do not require the use or storage of fuels or other chemicals for operation, thus the potential release of such materials and resulting negative impacts to groundwater quality are not an issue. In addition, the construction techniques employed for wind power project development are conventional methods that involve relatively shallow excavation that generally does not involve groundwater. As a result, the expected impacts from wind power projects on groundwater resources are inconsequential.

It does appear that the proposed overhead power line adjacent to an existing railroad may lie partly within existing wetlands and/or the 100-ft. buffer zone. Such construction is historically quite common and involves practices that pose little likelihood of impacting groundwater resources associated with wetland quality.



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1. INTRODUCTION AND BACKGROUND

1.1 Project Description

The project as it is currently proposed will consist of up to 48 wind turbines installed over an area of approximately 5,755 acres in the town of Cohocton in Steuben County, New York as shown on Figure 1. The majority of the project area lies to the east and northeast of the village of Cohocton, however a section of the wind project lies south of the village and west of the Cohocton River valley.

The turbines as currently planned may be up to approximately 400 ft. tall (285 ft. diameter rotor on a 256-ft high tower). Turbine foundation types will be dependent on subsurface conditions and may consist of relatively shallow concrete spread footings or deeper caissons. Power generated by the turbines will be transmitted to an existing overhead transmission line located at the southwest corner of the project area. The power will be transmitted via underground "gathering" lines located primarily along existing roads, and an overhead transmission line that will follow existing roads and a railroad right-of-way, as shown on Figures 2 and 3.

1.2 Wind Energy Projects and Groundwater Resources

Wind farm projects typically do not have demonstrable impacts to groundwater resources. They do not utilize groundwater for generating energy. They do not require the use or storage of fuels or other chemicals for operation, thus the potential release of such materials and resulting negative impacts to groundwater quality are not an issue. In addition, the construction techniques employed during wind power project development are conventional methods that involve relatively shallow excavation that does not involve groundwater. As a result, the expected impacts from wind power projects on groundwater resources are inconsequential. This is discussed further in Section 5.0.

1.3 Work Scope Summary

Haley & Aldrich's work scope for this phase of this project included:

- Obtaining readily-available published information on geology, hydrogeology and water resources, wetlands, etc. in the vicinity of the project;
- Obtaining information from public agencies or municipalities and private entities regarding existing residential water supply wells or other water supplies;
- Performing limited field reconnaissance of the project area to assess existing conditions with regard to area topography and land use, location and nature of streams, springs, groundwater divides, water bodies, wetlands, etc.;
- Depiction of the data obtained in Geographic Information System (GIS)-based drawings; and a written summary of findings provided in this report; and
- Assessment of anticipated construction features and construction methods for potential to affect hydrogeology in the project area.



Several requests for information were submitted to agencies, municipalities and other sources; some responses were received and additional information from some sources is pending.

1.4 Report Contents

Section 2 presents a summary of the project's geographic setting. Section 3 discusses overburden and bedrock conditions, respectively, and Section 4 addresses hydrogeologic conditions. Section 5 describes the proposed project's construction elements and assess each in terms of potential impacts to groundwater.



2. GEOGRAPHIC SETTING

This section briefly describes the geographic characteristics of project vicinity.

2.1 Topography and Drainage

The project area encompasses approximately twenty square miles of area in the southern tier of New York State. The project is located in the Appalachian Uplands physiographic province, which is typically characterized as an eroded plateau. Ground surface elevations in the project area range from approximately greater than el. 2000 atop the hills to el. 1210 in the major stream valleys.

Stream and glacial erosion have dissected the plateau and developed a generally dendritic drainage pattern, forming steep-sided valleys across most of this physiographic province. Topography in the area is generally rolling atop the hills, steep to very steep in the tributary stream valleys, and terraced to flat in the larger streams valleys such as those of Twelvemile Creek and the Cohocton River (see Figure 2). Slopes in the region generally range from 3 to 40 percent.

The project area is generally split by the Cohocton River which flows generally north to south and has incised the largest valley in the area. Several tributaries to the Cohocton River, including creeks classified by the New York State Department of Environmental Conservation (NYSDEC) are present in the study area. Table 1 provides a summary of the names rivers and streams in the project area and their NYSDEC classifications.

2.2 Land Use

The area encompassed by the project includes a mixture of land usage. The areas on or near the hilltops are largely used for agricultural purposes, and most areas with slopes gradual enough for farming are currently cultivated or recently fallow. The steeper hillsides are generally wooded. Photos of the project areas are included in Appendix A.

The area encompassed by the transmission line corridor has a mixture of land usage, including agricultural at the higher elevations, wooded steep slopes leading down to the Cohocton River valley, and additional agricultural, wooded and wetland areas in the valley. The corridor then follows the Livonia, Lakeville and Avon Railroad right-of-way (see Figure 2 and photos, Appendix A) for approximately two miles before turning west across the Cohocton valley and into an unnamed tributary valley to connect to the southernmost section of the project.

The entire area is traversed with a network of paved and gravel roads. The roads often follow the incised stream valleys, and develop generally rectangular configurations in the higher, agricultural areas. Several of the roads at higher elevations and in the more remote areas are "Limited Use" roads with no maintenance during winter months. Private residences exist at a relatively wide spacing along most of the roads, although several small clusters of homes are also present (Figure 2).



3. SITE AND VICINITY GEOLOGIC CONDITIONS

3.1 Overburden Geology

Overburden deposits at the site are largely the result of advance and retreat of the last of four continental glaciers to cover this region. The most recent glacier retreated from the area approximately 12,000 to 10,000 years ago. Several glacially-derived soil deposits are present within the project area, including the following:

•	Glacial Till	Variable mixture of clay, silt, sand, gravel and boulders. Generally poorly sorted and dense with low permeability. Most often deposited beneath glacial ice.
•	Kame and Kame Moraines	Variable mixture of sand, gravel and boulders, with some silt, deposited at ice margins. Often calcareous and may be cemented.
•	Glacial Outwash	Sand and gravel mixture with little silt deposited by meltwater streams flowing off of a glacier. Often stratified.
•	Recent Alluvial Deposits	Post-glacial deposits of sand, gravel and silt in stream valleys. Large stream valleys may have significant fine-grained flood-plain deposits overlying coarser channel deposits. Smaller tributary streams have developed coarse-grained alluvial fans that extend into the larger valleys.

The locations of these deposits are shown on Figure 4, Surficial Geology.

The project site is located immediately south of the Valley Heads moraine, a complex of iceterminus deposits at the southern extent of several Finger Lake valleys across Central New York State. This moraine is characterized by rolling, hummocky and terraced topography.

The overburden thickness in the project area can be expected to range from only a few feet in the upland areas to several hundred feet in the Cohocton River valley, which was deeply scoured by advancing ice before being filled with post-glacial deposits. The glacial till deposits in the uplands may be very thin to non-existent, as evidenced by bedrock outcrops in several areas (see photos, Appendix A) that are not readily reflected by the surficial geology mapping on Figure 4. Very shallow or outcropping rock appears to be more prevalent in the Lent Hill and Dutch Hill areas but may be present in other upland areas. The steep slopes on the north and west of these areas are also expected to be made up of exposed or very shallow bedrock.

Relatively thick deposits of glacial outwash are present in the project area in the form of sand and gravel terraces located adjacent to and at elevations above the larger stream valleys of the Cohocton River and Twelve Mile Creek (see Figures 2 and 4). Such deposits are the result of heavy sediment load being shed off a melting and slowly-retreating glacier. These deposits are often mined for aggregate materials; several commercial and private sand and gravel pits are active in the project area. The outwash deposits also extend to great depths beneath the



shallower recent alluvial deposits of Cohocton River and Twelve Mile Creek valleys. The alluvial deposits represent sediment load deposited by the recent streams that have established themselves in the post-glacial valleys. The larger tributaries to the Cohocton River have deposited alluvial fans at the points where they merge with the larger valley; this has resulted in deviation of the Cohocton River's course within the valley in several locations.

3.2 Bedrock Geology

The region is underlain by a series of sedimentary rock units of Upper Devonian age (380-370 million years BP). These bedrock layers generally dip very gradually to the south-southwest and appear essentially horizontal in outcrop. The following is a generalized description of rock units that have been mapped in the vicinity of the site, as shown on Figure 5, Bedrock Geology, in order of increasing age:

•	Machias Formation	Gray Shales and Siltstones
•	Wiscoy Formation	Gray Argillaceous Siltstones, Silty Mudstones and Fine Sandstones
•	West Hill Formation	Gray Siltstones and Gray Silty Shales with calcareous nodules
•	Gardeau Formation	Gray/Greenish-gray Shale, Gray Siltstones, Gray- black Shales with concretions
•	Beers Hill and related Formations	Several Shale, Siltstone and Mudstone units
•	Nunda Formation	Bluish-gray Siltstones, Gray silty Mudstones and Shales, with calcareous concretions

Bedrock outcrops were observed in several locations across the study area, most notably in the Lent Hill Road and Mattice Road areas. Bedrock was observed in several roadside drainage ditches. The depth to bedrock in the higher elevations can be expected to vary significantly but may often be only a few feet. Some of the rock units that exist in the site area (shales, siltstones and mudstones) may be extensively weathered and may no longer behave as competent rock.

The site area is relatively free of bedrock structure such as faulting or folding. No faults have been mapped in close proximity to the site. Topographic lineaments have been mapped from satellite imagery for some of the stream valleys in the area but these are not considered to be confirmed structural features. Bedrock joints (fractures) have also been mapped in the area. The primary joints sets have been mapped with strikes (directional bearings) that are generally northwest/southeast, northeast/southwest, and east-west (see Figure 6). These joints are generally vertical or nearly vertical. Other joint orientations have also been mapped at lesser frequency.

There are documented cases of ice-thrust bedrock blocks in the region that resulted when a southward-moving ice mass dislodged large blocks of bedrock as it encountered northward – facing rock slopes and displaced the blocks south of their original position. As a result, there could be locations where bedrock encountered beneath the ground surface may in turn be



underlain by layers of soil deposits (glacial till). It is not known if such conditions exist within the limits of the project area.

Natural gas deposits are known to exist at depth in the study area. Two gas wells were observed within the project limits during the site reconnaissance (see photos, Appendix A).



4. SITE AND VICINITY HYDROGEOLOGIC CONDITIONS

4.1 Introduction

An evaluation of the hydrogeologic conditions in the project area has been performed based on publicly-available, published literature, information obtained from municipalities and agencies, and our observations and experience.

Drilling logs for several water wells registered with NYSDEC were obtained; these logs have location data (latitude and longitude) but are not referenced to specific addresses. The approximate well locations are shown on Figure 7. Information obtained from these logs has been incorporated into this discussion, and summarized on Table 3. Copies of the well logs are included in Appendix B.

4.2 Water Bearing Units

Groundwater exists in all soil deposits and bedrock; however, significant recoverable quantities of potable groundwater are anticipated to exist only in bedrock and in the glacial outwash and recent alluvial deposits that occupy the stream and river valleys.

<u>Valley Fill Deposits</u>: The valley fill deposits underlying the Cohocton River, Twelvemile Creek, and the lower reaches of several unnamed tributaries to these water courses (see Figure 6) have collectively been designated a "Primary" Aquifer as defined by NYSDEC regulations. A Primary Aquifer is an underground soil or rock formation that yields enough groundwater to be, and is used as a major municipal water supply.

The Cohocton River aquifer is generally a surficial aquifer (also referred to as a water table aquifer). In some cases, the aquifer is under confined conditions due to the presence of lower-permeability soil units (e.g. silt and clay) overlying the water-bearing portion of the aquifer. Areas where this condition exists are the portion of the valley immediately east of Dutch Hill and the area just south of the study area where Twelvemile Creek joins the Cohocton River (see Figure 7).

The Village of Cohocton extracts groundwater for its businesses and residents via two pumping wells installed within the village limits in the valley bottom sand and gravel deposits. Prior to 1949 the village water supply came from springs located west of the village. Wells were subsequently installed to supplement this supply. The village currently utilizes two wells, designated Wells Nos. 1 and 2, drilled in 1962 and 1978, respectively, and located approximately as shown on Figure 7. Well No. 1 is 83 ft deep and reportedly has sustained yield of 200 gallons per minute (gpm). Well No. 2 is 165 ft. deep and yields 300 gpm. Additional supply wells have been drilled just north of village to approximate depths of 90 to 100 ft., however it is our understanding these wells are not yet being utilized (Village of Cohocton Clerk).

The hamlets of North Cohocton and Atlanta, located approximately four to five miles north of Cohocton also operate a common municipal water supply system (North Cohocton Water District), supplied by one well located on River Street in the valley fill aquifer as shown on Figure 7. The depth of the well is estimated between 60 and 62 feet. Since 1999 the primary supply well has been sustaining a yield of approximately 400 gpm without a significant drop of the groundwater levels.



Two of the domestic well logs obtained from NYSDEC indicate they were drilled at locations in the lower reaches of tributary streams, in overburden soils. The wells are approximately 30 ft. deep and show yields between 15 and 30 gpm.

Based on the conditions in the valley fill deposits and the high yield reported for these municipal wells, the valley fill aquifers are anticipated to be very prolific and subject to significant ongoing recharge across most of the study area.

<u>Hillslopes and Upland Area Soil Deposits</u>: Based on relatively small thickness and the generally fine-grained nature of the glacial till this soil deposit is not considered significant water-bearing unit, however some relatively minor amounts of water may be available from the till. The gravelly alluvial deposits along the upper reaches of the tributary streams may also yield sufficient water for domestic use.

Haley & Aldrich has not confirmed usage of springs in these deposits as a supply of potable water, but apparent springs were observed on at least two residential properties during the field survey. It is likely that these springs fluctuate seasonally in terms of water production and yield and may only flow during wet seasons or only after significant rain or snowmelt events. The water from some of these springs may actually be sourced in the bedrock.

It is also likely that relatively shallow wells drilled or dug in recent alluvial gravel deposits along the lower reaches of the tributary streams flowing off the upland areas yield sufficient water for residential use. Such wells may also vary seasonally in terms of production and may be drought-sensitive.

<u>Bedrock</u>: It is expected that the majority of wells drilled on the hill slopes and in the upland areas are completed in and draw water from the bedrock aquifer. Most of the of the domestic well logs obtained from NYSDEC were located in upland areas and indicated well construction in bedrock. The bedrock wells ranged in depth from 160 ft. to 490 ft. bgs, with yields if 1 to 15 gpm.

Rock units such as the shales, siltstones and mudstone formation that typify the project area generally have low permeability and therefore low yields but can produce sufficient water for residential purposes if drilled deep enough to intersect water-bearing zones. The groundwater flow and yield within these units is generally controlled by fractures in the rock, which constitute the secondary porosity of the rock mass. It is anticipated that a generally downward gradient exists in the bedrock mass, and the rock aquifer may be hydraulically connected to the valley fill aquifer at depth.

4.3 Groundwater flow

Groundwater flow characteristics are expected to vary depending on the water-bearing units. Groundwater flow within the valley fill aquifer is reportedly from north to south, with local variation from subsurface depositional features and groundwater withdrawal.

Flow direction in the upland soil units is anticipated to be essentially radially off the hilltops into the tributary stream valleys, with some downward infiltration into the bedrock. Gradients are currently unknown. Flow in the tributary stream deposits is longitudinally along the axis of the streams at generally steep gradients, which decrease as the streams approach the base level of the Cohocton River Valley.



Flow within the bedrock is dependent on the locations and orientation of fractures. As discussed in Section 3.2, joints in the rock mass in the site vicinity are largely vertical, and follow varied strikes. This can result in localized variation in flow directions; the overall flow directions will also be influenced by the topography of the bedrock surface, as groundwater will seek outlets in lower, exposed rock units, or will travel into overburden deposits at lower elevations. The upland rock mass can serve as a recharge source for the valley fill aquifers.

4.4 Seasonal Variations in Water Levels

Based on data provided by the United States Geologic Survey, the Cohocton area receives over 34 in. of precipitation annually. Of this amount, roughly 19 in. on average is lost to evapotranspiration (defined as the combined effects of evaporation and plant transpiration), and the remainder represents the runoff and infiltration volumes.

Groundwater levels in all aquifers will vary seasonally. Typically, seasonal fluctuations result in the highest groundwater levels during the April/May timeframe and the lowest levels during September or October. Significant temporary "spikes" in groundwater levels also occur from heavy rain events. The site reconnaissance was performed on 30 November 2005 and followed a significant rain event the day before. Considerable runoff flow was observed in all roadside drainage channels at that time. In addition, numerous rivulets in the steeplysloped portions of the site were observed to have heavy flow; some of these were noted to be "emergent" flow from the ground surface (see photos, Appendix A.) This flow is presumed to be emanating from the glacial till and/or shallow bedrock units, and is generally a shortlived occurrence.

Another factor in short-term groundwater level variation is evapotranspiration. In areas of dense vegetative cover, groundwater levels can drop significantly in a short period of time due to transpiration of water by plants during the spring/early summer "leaf-out."

4.5 Groundwater Quality

The quality of the groundwater withdrawn by the Cohocton and North Cohocton water districts is such that the only treatment required is chlorination. Water at significant depth in the valley fills in central New York may also have elevated salt content due to the presence of subcropping halite and other evaporate bedrock units.

Groundwater withdrawn from Shale bedrock is often high in sulfates and iron. Hydrogen sulfide gas is often present, especially in darker shale units. One of the domestic bedrock well logs obtained indicated the well was drilled on Dutch Hill Road to a depth of 160 ft., however due to the strong odor and generally dirty nature of the water it was "not useable."

Response is pending to a request submitted to the New York State Department of Health for local groundwater quality data from domestic wells.

4.6 Wetlands

Several NYSDEC-designated wetlands exist in the vicinity of the project site. These wetlands are located as shown on Figures 2 and 6. The wetlands, primarily located in the flood plains of the Cohocton River and Twelvemile Creek, are characterized by emergent vegetation consisting of reeds, rushes and cattails.



Development or construction activities that may have an impact on wetlands may be regulated by NYSDEC and/or the U.S. Army Corps of Engineers.



5. POTENTIAL IMPACTS TO GROUNDWATER RESOURCES

This section provides an assessment of the potential for negative impact to groundwater resources from the proposed wind project construction.

5.1 Identification of Potential Impacts

In general, potentially-negative impacts to groundwater might include:

- lowering of the water table, thereby impacting yield nearby water supply wells;
- a modification to surface runoff or streamflow, thereby affecting groundwater recharge characteristics;
- a degradation in groundwater chemical quality; or
- impact to wetlands.

The following sections discuss the potential for the wind power project to produce negative impacts such as those listed above.

5.2 Description of Proposed Construction

The project will include the following constructed elements, as shown on Figure 2:

- Construction of up to approximately 48 wind turbines as shown on Figure 2. The structures will consist of a single tower constructed on a concrete foundation. The foundations will be one of the two following types, and will be dependent on the subsurface conditions (soil type, depth to bedrock, type and quality of bedrock, etc) and other factors:
 - A spread footing, octagonal in plan, up to 55 ft. in lateral dimension and constructed up to approximately 8 ft. below existing grade; or
 - A cylindrical caisson foundation 18 ft. in diameter constructed 20 ft. to 30 ft. below existing grade.
- Construction of gravel access roads connecting each turbine to existing roads. To the extent possible, the connector roads will utilize existing farm roads.
- Installation of powerlines connecting the various elements of the project (see Figure 2). The turbines will be connected via underground 34.5kv cables. These cables will be collected at a substation south of Lent Hill where the voltage will be increased to 115kv.

From the collection structure, an above-grade powerline will be installed on poles along Cayward and Ryan Hollow Roads down to the valley floor at State Route 415. The line will continue westward and partially across the Cohocton River Valley where it will turn south, following the existing Livonia, Avon and Lakeville Railroad rightof-way (see photo, Appendix A) to a point south of Wentworth Road. At that point the alignment will turn west again, cross over Interstate 390 and enter an unnamed creek valley along Brown Hill Road. A substation on Brown Hill will increase the voltage to 230kv and the lines will then connect to an existing 230kv overheard line.



The powerline from the Lent Hill substation to the Brown Hill substation will be primarily above-ground on poles; however, there are some areas where it may travel below ground. One such example may be the crossing of Interstate 390, where a directionally-drilled crossing will be considered. Any underground portions will be designed to minimize or avoid entirely any impact to wetlands.

• Construction of one additional power collection station and one substation.

5.3 Assessment of Potential For Impacts

Table 4 presents a matrix cross-referencing each of the potential groundwater impacts described in Section 5.1 with each individual project construction element described in Section 5.2. In general, the proposed construction elements of the project do not appear to present significant potential impacts to groundwater resources in the vicinity of the project. The majority of the construction would involve only shallow soil and/or bedrock excavation, generally within eight feet or less of existing ground surface. Turbine foundation construction could potentially involve deeper excavation, depending on the subsurface conditions. The construction would involve commonly-utilized construction methods such as placement of steel-reinforced concrete and shallow trenching. Such work can be designed and constructed in a controlled and safe fashion with little or no impact to groundwater.

<u>*Turbine Foundations*</u>: The project element involving the most substantive construction would be installation of the turbine foundations. The spread footing and caisson foundation types would require excavations up 8 ft and 30 ft. bgs, respectively. Such construction could involve bedrock removal. To the extent possible, bedrock removal would be done with conventional excavating equipment; however it is possible that deeper excavations could potentially require the use of explosives. It is also possible this blasting could be performed in part below the water table.

If required, blasting would be done in a controlled fashion using appropriately-sized charge weights and delays, to minimize the amount of ground vibration generated and to limit the bedrock fracturing to the proposed foundation area. Blasting technology has advanced in recent years and bedrock blasting is routinely performed in close proximity to existing structures without causing damage. Based on the anticipated distances between turbine locations and area residences, the potential for impact to the water level within or water yield from a residential well due to blasting is considered to be very low.

During excavation, groundwater infiltrating an excavation may require removal by pumping. This would be only a temporary practice and the water would return to the aquifer through infiltration, with the potential for only a small percentage of loss through evaporation. The volume of loss would not be sufficient to lower groundwater levels at distance from the excavation locations.

The turbine foundations will require placement of large volumes of concrete. During the concrete curing process, it is possible that the groundwater quality in close proximity to the concrete mass may experience a rise in pH value, however this affect would be very localized to the foundation and would be short-lived. Natural surface water infiltration would restore normal pH levels in a relative short period of time.



<u>Access Roads</u>: Construction of the access roads will entail relatively shallow grading and placement of gravel or crushed stone. Such construction will result in only minor redirection of runoff of precipitation to drainage ditches that might have otherwise infiltrated along the road locations. But this runoff will eventually infiltrate thus the overall impact to the groundwater flow regime is negligible.

<u>Overhead Transmission lines</u> - It is currently anticipated that the overhead portion of the powerlines will be installed on wood poles. The poles would generally be installed to depths above the water table, but in those cases where they may extend below the water table they would not be large enough to significantly impact groundwater flow.

It is possible that some of the poles installed along east-west oriented segment and along the LAL railroad right-of-way may require installation within the limits of a NYSDEC-designated wetland and/or the 100 ft. buffer zone. The current design calls for wooden poles to be used and it is assumed the poles will be treated with creosote, pentachlorophenol, copper naphthenate or other similar preservatives. These lumber preservatives are widely used in the utility, railroad and construction industries. Numerous studies by Brooks (2001; and several others) have extensively evaluated potential environmental impacts from the use of such preservatives in many environments, including aquatic environments such as streams and wetlands. In general, the presence of creosote-treated wooden poles results in some loss of polynuclear aromatic hydrocarbon (PAH) compounds to the subsurface; however this loss is confined to soils in the immediate vicinity (within several inches) of the wooden pole or structure, and the PAH compounds are not present in concentrations that compromise biological integrity. Further, the PAHs do not dissolve readily into groundwater and are generally not present at concentrations that are stressful to aquatic plants and animals. Characteristic loss of metals to soils from metals-bearing preservatives show similar results.

Based on these findings and the relatively wide spacing of poles anticipated for this project, the presence of the poles would not be expected to have an adverse impact to the overall wetland environment along the existing railroad right-of-way.

<u>Underground Transmission Lines</u> – The current planned configuration for powerlines involves primarily above-ground installations. One exception to this will be the cables connecting the turbines to collection points. These underground cables are anticipated to be installed to approximate depths of 3 to 4 ft. bgs in a narrow trench. Such construction is not anticipated to have significant impact on groundwater flow. It is possible that some groundwater migration could occur along granular trench bedding material (if utilized), however this will not represent a volume of water sufficient to have an impact at distance from the trench itself. This effect could also be minimized by the installation of low-permeability barriers at regular intervals in the trench bedding material along steeper sections of the alignment.

If the alignments of the proposed underground sections need to cross low-lying areas that could be considered to be wetlands, or if steep ravines need to be crossed, these sections would be avoided through the use of above-ground installations.

<u>Power Collection and Substation Structures</u> - The structures are limited in plan area and are anticipated to be constructed with conventional shallow foundations, thus they are not anticipated to have any measurable impact to groundwater resources.



REFERENCES

- 1. United States Geological Survey, Naples (1976), Avoca (1978), Wayland (1987) and Haskinville (1976) Topographic Quadrangle Maps, Scale 1:24,000,
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Proposed Cohocton Wind Power Project Cohocton, New York

Table 1

Summary of River and Stream Classifications

Water Body	Classification	DEC Fishery Stocking Code
Cohocton River	C,B	(L)
Salmon Creek	C	-
Reynolds Creek	C	-
Castle Creek	C	(SL)
Neils Creek	C	(LC)
Page Brook	C	-

Т

Notes:

- 1. NYSDEC Designated 701.8 Classes B and C Fresh Surface Waters
- 2. The water quality shall be suitable for primary and secondary contact
- recreation, although other factors may limit the use for these purposes. 3. The best usage of Classes B and C waters is fishing and waters shall be suitable for fish propagation and survival.
- 4. (TS) = Trout Spawn, (T) = Trout5. (T) and (TS) designations are protected and require permitting when performing construction

PARCEL ADDRESS	PARCEL CITY	PARCEL ZIP	PARCEL ACRES MAILING ADDRESS
BOX 4680 RT 21	ATLANTA NY	14808	1.82 STAR ROUTE ATLANTA NY 14808
4591 ST RTE 21	ATLANTA NY	14808	6.1 4591 ROUTE 21 ATLANTA NY 14808
4840 PINE HILL RD	ATLANTA NY	14808	2.5 4840 PINE HILL RD COHOCTON NY 14868
21 W MAIN ST	ATLANTA NY	14808	0.48 RD2 WAYLAND NY 14572
19 W MAIN ST	ATLANTA NY	14808	0.8 19 W MAIN STREET COHOCTON NY 14826
17 W MAIN ST	ATLANTA NY	14808	0.39 17 W MAIN ST ATLANTA NY 14808
15 W MAIN ST	ATLANTA NY	14808	0.66 15 W MAIN ST ATLANTA NY 14808
13 W MAIN ST	ATLANTA NY	14808	0.46 13 W MAIN ST - CR036 ATLANTA NY 14808
0 W MAIN ST	ATLANTA NY	14808	0.9 9 W MAIN ST ATLANTA NY 14808
7 W MAIN ST	ATLANTA NY	14808	0.29 ATLANTA NY 14808
3 W MAIN ST	ATLANTA NY	14808	0.31 ATLANTA NY 14808
3 MILL ST	ATLANTA NY	14808	0.3 MAPLE AVE ATLANTA NY 14808
12 MAIN ST	ATLANTA NY	14808	1.15 12 MAIN ST ATLANTA NY 14808
	ATLANTA NY	14808	0.66 PO BOX 85 ATLANTA NY 14808
38 WEST AVE	ATLANTA NY	14808	0.48 38 WEST AVE ATLANTA NY 14808
14 W MAIN ST	ATLANTA NY	14808	1.16 14 W MAIN ST ATLANTA NY 14808
12 W MAIN ST	ATLANTA NY	14808	0.38 ATLANTA NY 14808
10 W MAIN ST	ATLANTA NY	14808	0.38 10 W MAIN ST ATLANTA NY 14808
8 W MAIN ST	ATLANTA NY	14809	0.32 8 WEST MAIN ST ATLANTA NY 14808
6 W MAIN ST	ATLANTA NY	14808	0.57 BOX 31 ATLANTA NY 14808
36 WEST AVE	ATLANTA NY	14808	0.39 36 WEST AVENUE ATLANTA NY 14808-0014
13 MAIN ST	ATLANTA NY	14808	0.25 13 MAIN ST ATLANTA NY 14808-0064
	ATLANTA NY	14808	0.76 482 HALEY ROAD ONTARIO NY 14519
15 WEST AVE	ATLANTA NY	14808	0.25 BOX 1693 ANDOVER NY 14806
13 WEST AVE	ATLANTA NY	14808	0.43 13 WEST AVE COHOCTON NY 14826
9 WEST AVE	ATLANTA NY	14808	0.74]9 WEST AVENUE ATLANTA NY 14808-0015
10 MAIN ST	ATLANTA NY	14808	2.5 10 MAIN ST PO BOX 191 ATLANTA NY 14808
5 WEST AVE	ATLANTA NY	14808	0.22 5 WEST AVE ATLANTA NY 14808
	ATLANTA NY	14808	1.12 MAIN STREET ATLANTA NY 14808
12 MAIN ST	ATLANTA NY	14808	0 12 MAIN ST ATLANTA NY 14808
14 MAIN ST	ATLANTA NY	14808	0.61 20 BANK ST HORNELL NY 14843
16 MAIN ST	ATLANTA NY	14808	0 16 MAIN STREET ATLANTA NY 14808
20 MAIN ST	ATLANTA NY	14808	0.28 20 MAIN ST ATLANTA NY 14808
18 MAIN ST	ATLANTA NY	14808	0.22 18 MAIN ST ATLANTA NY 14808

Cohocton, New York Table 2 Listing of Project Area Residential Addresses **Cohocton Wind Power Project**

PARCEL ADDRESS	PARCEL CITY	PARCEL ZIP	PARCEL ACRES MAILING ADDRESS
32 WEST AVE	ATLANTA NY	14808	0.83 32 WEST AVENUE ATLANTA NY 14808
30 WEST AVE	ATLANTA NY	14808	0.23 30 WEST AVENUE ATLANTA NY 14808
22 WEST AVE	ATLANTA NY	14808	0.51 22 WEST AVE ATLANTA NY 14808
16 WEST AVE	ATLANTA NY	14808	0.69 8015 THORP ROAD WAYLAND NY 14572
14 WEST AVE	ATLANTA NY	14808	0.92 14 WEST AVE ATLANTA NY 14808
24 ERIE ST	ATLANTA NY	14808	0.2 24 ERIE AVE ATLANTA NY 14808
22 ERIE ST	ATLANTA NY	14808	0.5 22 ERIE STREET ATLANTA NY 14808
7 BOGGS ST	ATLANTA NY	14808	0.9 110 LINCOLN ST WAYLAND NY 14572
26 WEST AVE	ATLANTA NY	14808	1.63 26 WEST AVE BOX 243 ATLANTA NY 14808
8 WEST AVE	ATLANTA NY	14808	0.42 8 WEST AVE ATLANTA NY 14808-0152
3810 CR 36	ATLANTA NY	14808	1.6 1126 RT 21 WAYLAND NY 14572
18 ERIE ST	ATLANTA NY	14808	0.42 PO BOX 215 ATLANTA NY 14808
5 WEST AVE	ATLANTA NY	14808	0.42 6 WEST AVENUE ATLANTA NY 14808
	ATLANTA NY	14808	28 ATLANTA-WAYLAND RD WAYLAND NY 14572
14 ERIE ST	ATLANTA NY	14808	0.24 14 ERIE ST ATLANTA NY 14808
3 BOGGS ST	ATLANTA NY	14808	1.78]3 BOGGS ST ATLANTA NY 14808
12 ERIE ST	ATLANTA NY	14808	0.23 12 ERIE ST ATLANTA NY 14808
10 ERIE ST	ATLANTA NY	14808	0.17 10 ERIE ST PO BOX 174 ATLANTA NY 14808
5 ERIE ST	ATLANTA NY	14808	0.22 PO BOX 186 ATLANTA NY 14808
4 ERIE ST	ATLANTA NY	14808	0.32 PO BOX 19 ATLANTA NY 14808
4757 KIRKWOOD RD	ATLANTA NY	14808	16.6 4757 KIRKWOOD RD COHOCTON NY 14826
10890 DIDAS RD	ATLANTA NY	14808	24.05 STAFFORD NY 14143
	ATLANTA NY	14808	100 10743 ATLANTA BACK ROAD ATLANTA NY 14808
4701 CO RD 35 SO	ATLANTA NY	14808	2.88 PO BOX 102 ATLANTA NY 14512
8121 BAUTER RD	AVOCA NY	14809	0.77 8961 ATLANTA-GARLINGHOUSE RD NAPLES NY
10331 RYAN HOLLOW RD	AVOCA NY	14809	9.94 10331 RYAN HOLLOW RD COHOCTON NY 14826
	AVOCA NY	14809	5 PO BOX 236 COHOCTON NY 14826
9212 SR 415	AVOCA NY	14809	72.6 921 SR415 AVOCA NY 14809
3925 BROWN HILL RD	AVOCA NY	14808	106.8 28 EAST HILL DRIVE SMITHTOWN NY 11787
9170 FAIRBROTHER RD	AVOCA NY	14809	3 9170 FAIRBROTHER ROAD AVOCA NY 14809
3889 BROWN HILL RD	AVOCA NY	14809	0.9 3889 BROWN HILL RD AVOCA NY 14809
3900 BROWN HILL RD	AVOCA NY	14809	0.9 3900 BROWN HILL ROAD AVOCA NY 14809
3889B BROWN HILL RD	AVOCA NY	14809	190.9 BROWN HILL RD AVOCA NY 14809
44 LIBERTY ST	BATH NY	14810	0.45 6880 HACKBERRY RD NAPLES NY 14512
3233 CAMERON PL	CALEDONIA NY	14223	20.49 3233 CAMERON PL CALEDONIA NY 14423
	CANANDAIGUA N	14424	0.73 10757 NYS RTE 371 COHOCTON NY 14826

12.4 4478 MCLEAN HOLLOW RD COHOCTON NY 14826 91.4 RD DUTCH HOLLOW RD COHOCTON NY 14826 26.2 4853 KIRKWOOD ROAD COHOCTON NY 14826 4931 KIRKWOOD ROAD COHOCTON NY 14826 231.62 11395 PINE HILL ROAD COHOCTON NY 14826 52.46 11118 DUTCH HILL RD COHOCTON NY 14826 6.28 52 SENECA DRIVE CANANDAIGUA NY 14424 18.89 52 SENECA DRIVE CANANDAIGUA NY 14424 1.7 4505 PINE HILL ROAD COHOCTON NY 14826 4660 KIRKWOOD RD COHOCTON NY 14826 32.34 3941 FLEISHMAN RD COHOCTON NY 14826 .74 3942 FLEISHMAN RD COHOCTON NY 14826 5.6 KIRKWOOD ROAD COHOCTON NY 14826 20.5 5135 KIRKWOOD RD COHOCTON NY 14826 11.21 4940 KIRKWOOD RD COHOCTON NY 14826 11020 PINE HILL RD COHOCTON NY 14826 4769 KIRKWOOD RD COHOCTON NY 14826 22.9 4660 KIRKWOOD RD COHOCTON NY 14826 4.6 4658 KIRKWOOD RD COHOCTON NY 14826 6 4407 KIRKWOOD RD COHOCTON NY 14826 2.4 4475 PINE HILL RD COHOCTON NY 14826 30 11190 DUTCH HILL COHOCTON NY 14826 0.84 PINE HILL ROAD COHOCTON NY 14826 2.49 PO BOX 1032 CANANDAIGUA NY 14424 [86.3] PO BOX 245 COHOCTON NY 14826-0245 382.1 11 WHEELER ST COHOCTON NY 14826 0.68 15 S MAIN ST COHOCTON NY 14826 12 HILL ST COHOCTON NY 14826 7.56 PO BOX 343 COHOCTON NY 14826 8.28 3518 CR121 COHOCTON NY 14826 4781 CR035 COHOCTON NY 14826 0.6 RD2 COHOCTON NY 14826 143.75 RD2 COHOCTON NY 14826 8.3 RD2 COHOCTON NY 14826 1 N COHOCTON NY 14826 2.7 COHOCTON NY 14826 MAILING ADDRESS 23.71 L.S PARCEL ZIP PARCEL ACRES 14826 14826 14424 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14424 20733 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14826 14424 CANANDAIGUA NY **CANANDAIGUA** NY CANANDAIGUA NY CHURCHTON MD COHOCTON NY **COHOCTON NY** COHOCTON NY PARCEL CITY **1219 DUTCH HILL RD** 0860 DUTCH HILL RD **1118 DUTCH HILL RD** 1190 DUTCH HILL RD 3941 FLEISHMAN RD **3942 FLEISHMAN RD** 853 KIRKWOOD RD **1940 KIRKWOOD RD 1931 KIRKWOOD RD** 4699 KIRKWOOD RD 781 KIRKWOOD RD 769 KIRKWOOD RD 810 KIRKWOOD RD 660 KIRKWOOD RD 4690 KIRKWOOD RD 4658 KIRKWOOD RD 1407 KIRKWOOD RD 5135 KIRKWOOD RD 699 KIRKWOOD RD 4636 KIRKWOOD RD **1020 PINE HILL RD** ARCEL ADDRESS **4510 PINE HILL RD 475 PINE HILL RD** 1505 PINE HILL RD 1416 ST RT 371 52 SENECA DR 52 SENECA DR 1457 PINE HL **5 S MAIN ST** PO BOX 176 2 HILL ST

10601 ATLANTA BACK ROAD COHOCTON NY 14826 10749 BLACK CRK HLW RD COHOCTON NY 14826 2.7|10882 COUNTY ROUTE 371 COHOCTON NY 14826 1.64 10651 ATLANTA BACK RD COHOCTON NY 14826 2.86 10988 DUTCH HILL ROAD COHOCTON NY 14826 10799 DAVIS HOLLOW RD COHOCTON NY 14826 1.09 4950 DEUSENBERRY RD COHOCTON NY 14826 112.25 10799 EDMOND RD COHOCTON NY 14826-9657 10965 DUTCH HILL RD COHOCTON NY 14826 25 5019 DEUSENBERY RD COHOCTON NY 14826 3.5 PO BOX 208 COHOCTON NY 14826 0.85 5019 DEUSENBERY RD COHOCTON NY 14826 44.8 11219 DUTCH HILL RD COHOCTON NY 14826 59.44 4716 LENT HILL ROAD COHOCTON NY 14826 44.8 11219 DUTCH HILL RD COHOCTON NY 14826 10470 NYS ROUTE 371 COHOCTON NY 14826 3.4 9195 GARLINGHOUSE RD NAPLES NY 14512 10 4400 KIRKWOOD RD COHOCTON NY 14826 4758 LENT HILL RD COHOCTON NY 14826 4539 LENT HILL RD COHOCTON NY 14826 5.84 4610 LENT HILL RD COHOCTON NY 14826 55.13 10799 EDMOND RD COHOCTON NY 14826 55.13 10799 EDMOND RD COHOCTON NY 14826 10799 EDMOND RD COHOCTON NY 14826 0.83 RD2 BOX 349A COHOCTON NY 14826 3.2 10852 ST RD 371 COHOCTON NY 14826 3960 DRUM RD COHOCTON NY 14826 0|BEALS ROAD COHOCTON NY 14826 17.45 362 HUFFER RD HILTON NY 14468 10.75 11871 RT15N WAYLAND NY 14572 111118 SR371 COHOCTON NY 14826 16.7 ROUTE 2 COHOCTON NY 14826 11.7 12 CEDAR ST BATH NY 14810 3 RD2 COHOCTON NY 14826 108 RD1 COHOCTON NY 14826 14826 MAILING ADDRESS 12.2 COHOCTON NY 20 101.7 1.2 6.28 1.02 100.05 101.77 PARCEL ZIP PARCEL ACRES 14826COHOCTON NY COHOCTON NY PARCEL CITY **10651 ATLANTA BACK RD** 0601 ATLANTA BACK RD RD 0799 DAVIS HOLLOW RD 0821 DAVIS HOLLOW RD 0803 DUTCH HILL RD 0860 DUTCH HILL RD 0803 DUTCH HILL RD 5019 DEUSENBERY RD 0988 DUTCH HILL RD 950 DEUSENBERY RD 0650 DAVIS HOLLOW 0965 DUTCH HIL RD 400 KIRKWOOD RD **1480 KIRKWOOD RD** 0978 WHEATON RD 4699 KIRKWOOD RD 0929 STANTON RD **758 LENT HILL RD** 539 LENT HILL RD 716 LENT HILL RD **4610 LENT HILL RD** 0799 EDMOND RD 0799 EDMOND RD PARCEL ADDRESS 0799 EDMOND RD 0799 EDMOND RD 0882 ST RTE 371 0862 ST RTE 371 0852 ST RTE 371 0920 BEALS RD 0925 DIDAS RD 1118 ST RTE 37 0740 ST RTE 37] 0689 ST RTE 37 850 CO RD 35 S **3960 DRUM RD** 20 N MAIN ST

4443 MCLEAN HOLLOW ROAD COHOCTON NY 14826 15 4580 MCLEAN HOLLOW ROAD COHOCTON NY 14826 10259 AVERY HOLLOW ROAD COHOCTON NY 14826 3 10609 DAVIS HOLLOW ROAD COHOCTON NY 14826 63.29 10551 ATLANTA BACK ROAD COHOCTON NY 14826 17.53 3535 OIL WELL HOLLOW RD COHOCTON NY 14826 41.2 4443 MCLEAN HOLLOW RD COHOCTON NY 14826 8.7 4485 LENT HILL RD COHOCTON NY 14826 12.6 10580 ATLNTA BK RD COHOCTON NY 14826-9633 6.29 3334 HENKLE HOLLOW RD COHOCTON NY 14826 5|10049 AVERY HOLLOW RD COHOCTON NY 14826 6.6 10445 AVERY HLL RD COHOCTON NY 14826-9442 0.9 10634 DAVIS HOLLOW RD COHOCTON NY 14826 4561 NEWCOMB HLW RD COHOCTON NY 14826 3.4 4231 LENT HILL RD COHOCTON NY 14826-9667 6.59 4390 LENT HILL ROAD COHOCTON NY 14826 0.13 4385 LENT HILL RD COHOCTON NY 14826 0.94 4385 LENT HILL ROAD COHOCTON NY 14826 65 10285 AVERY HLW RD COHOCTON NY 14826 15 5003 BLANK HILL RD DANSVILLE NY 14437 0.99 RD2 LOON LAKE RD COHOCTON NY 14826 56 MAPLE AVENUE COHOCTON NY 14826 2.76 10645 RIVER ROAD COHOCTON NY 14826 1.45 91 ASTOR DRIVE ROCHESTER NY 14610 139 4 MAPLE STREET DANSVILLE NY 14437 9.7|4 MAPLE STREET DANSVILLE NY 14437 2.2 10570 ROUTE 371 COHOCTON NY 14826 14.16 8101 CONLON ROAD LEROY NY 14482 92.4 3397 CO RD 121 COHOCTON NY 14826 1.36 S MAIN ST COHOCTON NY 14826 105.24 226 MAIN ST DANSVILLE NY 14437 .05.24 226 MAIN ST DANSVILLE NY 14437 2.12 WISE ROAD COHOCTON NY 14826 2.6 24 SAILFIRSH DRIVE GROTON CT 101 RT 21 WAYLAND NY 14572 14.21 RD 1 COHOCTON NY 14826 MAILING ADDRESS 73 22.61 40 8.7 PARCEL ZIP PARCEL ACRES 14826COHOCTON NY COHOCTON NY PARCEL CITY 561 NEWCOMB HOLLOW RD 535 OIL WELL HOLLOW RD 255 REYNOLDS CREEK RD 4674 MCLEAN HOLLOW RD 1478 MCLEAN HOLLOW RD 1443 MCLEAN HOLLOW RD 443 MCLEAN HOLLOW RD **333 HENKLE HOLLOW RD** 10049 AVERY HOLLOW RD 0445 AVERY HOLLOW RD 0285 AVERY HOLLOW RD 0251 RYAN HOLLLOW RD 0259 AVERY HOLLOW RD 0580 ATLANTA BACK RD 0634 DAVIS HOLLOW RD 0541 ATLANTA BACK RD 0609 DAVIS HOLLOW RD 0398 RYAN HOLLOW RD 0139 WAGNER GULLEY **1381 LENT HILL RD** 231 LENT HILL RD ARCEL ADDRESS 580 MCLEAN RD 1390 CO RD 35 SO 385 CO RD 35 SO 1485 CTY RTE 35 3619 CTY RD 121 521 CO RTE 121 8619 CTY RD 121 521 CO RTE 121 0645 ST RT 371 56 MAPLE AVE 397 CO RD 121 397 CO RD 121 0533 WISE RD 0260 ST RTE 21

2.95 10005 LAKE HOLLOW ROAD COHOCTON NY 14826 18.72 6427 VICTOR MANCHESTER RD VICTOR NY 14564 3251 REYNOLDS CREEK RD COHOCTON NY 14826 2.5 10019 LAKE HOLLOW RD COHOCTON NY 14826 5754 LENT HILL RD COHOCTON NY 14826-9657 **10 8 NORTH DANSVILLE STREET COHOCTON NY** 5.37 5121 DEUSENBERRY RD COHOCTON NY 14826 10|5188 DEUSENBERY COHOCTON NY 14826-9652 0.39 5310 DEUSENBURY RD COHOCTON NY 14826 17 5100 DEUSENBERY RD COHOCTON NY 14826 126 3520 POTTER HILL RD COHOCTON NY 14826 7.9 5019 DUESENBERY RD COHOCTON NY 14826 82.85 111 SEMINOLE WAY ROCHESTER NY 14618 42.88 71 HARWOOD RD SPENCERPORT NY 14559 98.5 5855 LENT HILL RD COHOCTON NY 14826 [2.12]10126 MATTICE RD COHOCTON NY 14826 18.5|810 WEST WOOD TRL WEBSTER NY 14580 68.24 10799 EDMOND RD COHOCTON NY 14826 10343 NARROWS RD WAYLAND NY 14572 3409 OIL-WELL RD COHOCTON NY 14826 22.3 3682 JONES ROAD COHOCTON NY 14826 3.89 LENT HILL RD COHOCTON NY 14826 5.28 9345 WAGER RD COHOCTON NY 14826 4.5 5551 C0 RD 35 C0H0CT0N NY 14826 1.25 3064 MAIN ST CALEDONIA NY 14423 5 87 BIG TREE ST LIVONIA NY 14487 2.5 PO BOX 96 N COHOCTON NY 14826 1 PARK AVE COHOCTON NY 14826 2.16 PO BOX 255 COHOCTON NY 14826 85 RD2 COHOCTON NY 14826 170 RD2 COHOCTON NY 14826 61.3 RD1 COHOCTON NY 14826 28.44 RD COHOCTON NY 14826 1.4 COHOCTON NY 14826-9651 27.7 COHOCTON NY 14826-9657 SPRINGWATER NY 14560 MAILING ADDRESS 167.9 8.97 5.22 4 Ś PARCEL ZIP PARCEL ACRES 14826COHOCTON NY COHOCTON NY PARCEL CITY 3414 OIL WELL HOLLOW RD 3409 OILWELL HOLLOW RD RD 3520 OFF POTTER HILL RD 0650 DAVIS HOLLOW RD 0005 LAKE HOLLOW RD 0019 LAKE HOLLOW RD **251 REYNOLDS CREEK** 5100 DEUSENBERY RD 5310 DEUSENBERY RD 5188 DEUSENBERY RD 5048 DEUSENBERY RD 3460 POTTER HILL RD 5121 DEUSENBERY RD **1035 WHEATON RD** 1269 WHEATON RD 0978 WHEATON RD 5855 LENT HILL RD 5834 LENT HILL RD 5754 LENT HILL RD 5754 LENT HILL RD 5648 LENT HILL RD **5609 LENT HILL RD** 5551 LENT HILL RD 0011 COSGRIFF RD 0799 EDMOND RD 0126 MATTICE RD 0799 EDMOND RD 0617 MATTICE RD 0483 MATTICE RD 0126 MATTICE RD 0013 MATTICE RD PARCEL ADDRESS **3713 SLAYTON RD)345 WAGER RD** 5164 CO RD 35 S **3682 JONES RD** HILL S

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PARCEL ADDRESS	PARCEL CITY	PARCEL ZIP	PARCEL ACRES MAILING ADDRESS
3959 NOBLE RD	COHOCTON NY	14826	145.45 3959 NOBLE ROAD COHOCTON NY 14826
9625 FLINT RD	COHOCTON NY	14826	38.03 35 SYNDENHAM RD ROCHESTER NY 14609
3717 GRUBER RD	COHOCTON NY	14826	75 RD COHOCTON NY 14826
3771 GRUBER RD	COHOCTON NY	14826	1.8 3771 GRUBER RD COHOCTON NY 14826
3189 BROWN HILL RD	COHOCTON NY	14826	3 3 3 3 189 BROWN HILL ROAD COHOCTON NY 14826
3200 BROWN HILL RD	COHOCTON NY	14826	116.36 3200 BROWN HILL RD COHOCTON NY 14826
3200 BROWN HILL RD	COHOCTON NY	14826	5 3200 BROWN HILL RD COHOCTON NY 14826
3 CRESTWOOD RD	CORNING NY	14830	31.87]3 CRESTWOOD CRIVE CORNING NY 14830
11801 HARRINGTON DR	CORNING NY	14830	5.37 11801 HARRINGTON DR CORNING NY 14830
29 LIBERTY ST	DANSVILLE NY	14437	1.8 29 LIBERTY ST DANSVILLE NY 14437
522 E CENTER ST	DOUGLAS WY	82633	4.34 3883 WEST MAIN ST WILLIAMSON NY 14589
57 PARK CIR	FAIRPORT NY	14450	84 57 PARK CIRCLE FAIRPORT NY 14450-2534
57 PARK CIR	FAIRPORT NY	14450	45.3 57 PARK CIRCLE DR FAIRPORT NY 14450
162 N MAIN ST	FAIRPORT NY	14450	66 162 N MAIN ST FAIRPORT NY 14450
5728 DOBSON DR	FAYETTEVILLE NC	28311	8.5/74 ROXBOROUGH ROAD ROCHESTER NY 14619
77 ROSS AVE	HACKENSACK NJ	7601	6.58 77 ROSS AVE HACKENSACK NJ 07601
	HENRIETTA NY	14467	4.3 PO BOX 448 HENRIETTA NY 14467
6 MAPLEWOOD AVE	HONEOYE FALLS N	14472	4.56 4825 PINE HILL RD HONEOYE FALLS NY 14472
7479 COUNTY LINE RD	NAPLES NY	14512	3 7479 COUNTY LINE RD NAPELS NY 14512
7347 COUNTY LINE RD	NAPLES NY	14512	4.4 133 HILLVIEW DRIVE ROCHESTER NY 14622
150 S MAIN ST	NAPLES NY	14512	88.06 150 S MAIN ST NAPLES NY 14512
11750 LYON RD	NAPLES NY	14512	7.53 11750 LYON RD NAPLES NY 14512
11761 LYON RD	NAPLES NY	14512	16.72 11761 LYON ROAD COHOCTON NY 14826
11743 LYON RD	NAPLES NY	14512	2 PO BOX 464 NAPLES NY 14512
	NAPLES NY	14512	0.16 PO BOX 832 NAPLES NY 14512
120 MARTIN RD	NAPLES NY	14512	9.9 120 MARTIN RD NAPLES NY 14512
30 REED ST	NAPLES NY	14512	6.1 30 REED ST NAPLES NY 14512
10 MECHANIC ST	NAPLES NY	14512	3 3361 BROWN HILL RD COHOCTON NY 14826
11799 LEWIS RD	NAPLES NY	14512	8.03 11811 LEWIS ROAD NAPLES NY 14512
11763 LEWIS RD	NAPLES NY	14512	15.2 11763 LEWIS RD NAPLES NY 14512
11767 LEWIS RD	NAPLES NY	14512	1.7 11767 LEWIS RD NAPLES NY 14512
11745 LEWIS RD	NAPLES NY	14512	14.08 11145 LEWIS ROAD NAPLES NY 14512
11723 PECK RD	NAPLES NY	14512	19.5 11723 PECK RD NAPLES NY 14512
5029 MOORE RD	NAPLES NY	14512	35.58 6947 CO RD 34 NAPLES NY 14512
3200 FLINT HILL RD	NAPLES NY	14512	107.68 3200 FLINT HILL ROAD NAPLES NY 14512
16 WAYLAND ST	NO COHOCTON NY	14808	1.11]16 WAYLAND STREET ATLANTA NY 14808

PARCEL ADDRESS	PARCEL CITY	PARCEL ZIP P	ARCEL ACRES	MAILING ADDRESS
6587 SLOCUM RD	ONTARIO NY	14519	21.54	6587 SLOCUM ROAD ONTARIO NY 14519
1910 PENFIELD RD	PENFIELD NY	14526	100	1910 PENFIELD RD PENFIELD NY 14526
2007 DUBLIN RD	PENFIELD NY	14526	9.37	2007 DUBLIN RD PENFIELD NY 14526
100 PENN SQ E	PHILADELPHIA PA	19107	0.33	5 WEST MAIN ST ATLANTA NY 14826
5425 CHAPMAN RD	PRATTSBURG NY	14873	60.94	5425 CHAPMAN ROAD PRATTSBURGH NY 14873
180 SOUTH CLINTON AVE	ROCHESTER NY	14646	0.18	180 SOUTH CLINTON AVE ROCHESTER NY 14646
83 SCHOLFIELD RD WEST	ROCHESTER NY	14617	57.2	83 SCHOLFIELD ROAD ROCHESTER NY 14614
5090 ST PAUL BLVD	ROCHESTER NY	14617	22.4	206 RYE ROAD ROCHESTER NY 14626
1095 LAKESHORE BLVD	ROCHESTER NY	14617	63	950 BROWN RD ROCHESTER NY 14622
	ROCHESTER NY	14692	62.77	31 HARVEST DR ROCHESTER NY 14626
25 AUSTIN ST	ROCHESTER NY	14606	46.2	23 FULTON AVENUE ROCHESTER NY 14608
170 BAY VIEW RD	ROCHESTER NY	14609	4	170 BAYVIEW ROAD ROCHESTER NY 14609
2387 OAKVIEW DR	ROCHESTER NY	14617	17.55	115 RESOLUTE ST ROCHESTER NY 14621
710 ROCK BEACH RD	ROCHESTER NY	14617	48.5	710 ROCK BEACH RD ROCHESTER NY 14617
172 OAK BRIDGE WAY	ROCHESTER NY	14612	7.13	172 OAKBRIDGE WAY ROCHESTER NY 14612
374 WELLINGTON AVE	ROCHESTER NY	14619	105	374 WELLINGTON AVE ROCHESTER NY 14619
54 ELMORE DR	ROCHESTER NY	14606	45.97	54 ELMORE DR ROCHESTER NY 14606
99 PELHAM RD	ROCHESTER NY	14610	211.9	99 PELHAM ROAD ROCHESTER NY 14610
33 RYANS RUNNE	ROCHESTER NY	14624	13.14	33 RYANS RUN ROCHESTER NY 14624-1160
23 JENNIFER CIR	ROCHESTER NY	14606	13.51	23 JENNIFER CIRCLE ROCHESTER NY 14606
	ROCHESTER NY	14618	11	PO BOX 18939 ROCHESTER NY 14618-8939
710 ROCK BEACH RD	ROCHESTER NY	14617	152.32	1125 WEST SIDE DR CHILI NY 14624
1218 RUSH HENRIETTA TL RD	RUSH NY	14543	9.03	RUSH NY 14543
5674 EAST SWAMP RD	SCOTTSBURG NY	14545	7.21	ATLANTA BACK RD COHOCTON NY 14826
4516 ALTON-LYONS RD	SODUS NY	14551	46.8	4516 ALTON-LYONS RD SODUS NY 14551
9295 HOLMES RD	SPRINGWATER NY	14560	70.3	9295 HOLMES RD SPRINGWATER NY 14560
1863 LEXINGTON PL	TARPON SPRINGS I	34688	0.31	ATLANTA NY 14808
555 MORGAN ST	TONAWANDA NY	14150	1.94	DEUSENBERRY RD COHOCTON NY 14826
2754 S BROAD ST	TRENTON NJ	8610	10	2754 S BROAD ST TRENTON NJ 08610
10343 NARROWS RD	WAYLAND NY	14572	110	10343 NARROWS RD WAYLAND NY 14572
111 LINCOLN ST	WAYLAND NY	14572	68.14	111 LINCOLN STREET WAYLAND NY 14572
3525 CO RD 36	WAYLAND NY	14572	97.8	10 MACKAY ST ATLANTA NY 14808
3689 CTY RTE 36	WAYLAND NY	14572	27.55	3689 CR036 WAYLAND NY 14572
3720 ST RTE 21 NO	WAYLAND NY	14572	0.3	WAYLAND NY 14572
10782 RTE 21 S	WAYLAND NY	14572	2	10782 ROUTE 21S WAYLAND NY 14572
3788 CTY RD 36	WAYLAND NY	14572	1.6	201 HAMILTON ST WAYLAND NY 14572

PARCEL ADDRESS	PARCEL CITY	PARCEL ZIP	PARCEL ACRES	MAILING ADDRESS
11210 BLACK CREEK RD	WAYLAND NY	14572	0	11210 BLACK CREEK RD WAYLAND NY 14572
117 LACKAWANNA ST	WAYLAND NY	14572	5.9	117 LACKAWANNA ST WAYLAND NY 14572
11845 SCHRADER RD	WAYLAND NY	14572	411.8	11845 SCHRADER RD WAYLAND NY 14572
11845 SCHRADER RD	WAYLAND NY	14572	411.8	11845 SCHRADER RD WAYLAND NY 14572
954 FIVE MILE LINE RD	WEBSTER NY	14580	0.44	954 FIVE MILE LINE RD WEBSTER NY 14580
706 MARINER CIR	WEBSTER NY	14580	23.68	PO BOX 520 NAPLES NY 14512
15 PERRIWINKLE WAY	WEBSTER NY	14580	89	26 CITRUS DR ROCHESTER NY 14606
852 SHOEMAKER RD	WEBSTER NY	14580	63.3	852 SHOEMAKER ROAD WEBSTER NY 14580
5105 SUMMERHILL RD	ZEPHYRHILLS FL	33542	0.38	3 BOGGS STREET ATLANTA NY 14808

Proposed Cohocton Wind Power Project Cohocton, New York

Table 3 Summary of NYSDEC-Registered Wells

					Ground		Depth to				
		_			Surface	Depth of	Groundwater	Depth to Top	Depth to Bottom	Casing Length	Yield
Well ID	Address	Well Type	Latitude	Longitude	Elevation	well (ft.)	(ft)	of Screen (ft.)	of Screen (ft.)	(ft.)	(mdg)
Bedrock Wells											
SB1628	Dutch Hill Rd.	Domestic	42' 32' 27.72"	77' 29' 55.74"	1750	160	NA	NA	NA	64	NA
SB1655	Dutch Hill Rd.	Domestic	42' 22' 26.02"	77' 29' 52.90"	1780	260	VN	NA	NA	120	4
SB1840	Dutch Hill Rd.	Domestic	42' 32' 38.20"	77' 29' 47.05"	1846	300	٧N	NA	NA	80	7
SB1207	Lake Hollow Rd.	Domestic	42' 27.776'	77' 31.657'	2050	255	195	NA	NA	55	15
SB1324	Potter Hill Rd.	Domestic	42' 28' 23.87"	77' 31' 7.80"	1846	490	VN	NA	NA	37.5	1
SB1506	Wagner Gully Rd.	Domestic	42' 29' 13.04"	77' 26' 35.24"	1929	380	VN	NA	NA	241	8
SB 1448		Domestic	42' 33.945"	77' 29.242"	1208	42	NA	NA	NA	42	NA
SB1515	Potter Hill Rd.	Domestic	NA	NA	1764	220	09	NA	NA	125	6
Overburden W	<i>l</i> ells										
SB1411	River Rd.	Domestic	42' 30.820'	77' 28.617'	1221	28	8	NA	NA	28	20
SB1451	Neils Creek Rd.	Domestic	42' 25' 48.53"	77' 29' 37.29"	1333	30	NA	NA	NA	32	15
SB1737	NYS Rt. 371	Municipal Supply	42' 31.29'	77' 28' 39"	1301	94	NA	84	94	84	NA
SB1580	NYS Rt. 371	Municipal Supply	42' 31.307'	77' 28.330'	1304	100	16.3	90	100'	30	421

Notes:

See Figure 2 for approximate well locations.
 "NA" indicates "Not Available" or "Not Applicable."

G: Projects/32788/000/Report/FINAL/Revisions March 06/Groundwater Resources Report 3-06/Text, Tables & Appendices/[Table 3 Well Summary, xk]Sheetl

Proposed Cohocton Wind Power Project Cohocton, New York

Table 4Potential Groundwater Impact Summary

		Potent	ial Impacts		
	Water Table		Chonao in Croundwator		
Project Element	Change	Runoff Modification	Chemical Quality	Wetland Impact	Remarks
			Temporary localized		
			increase in pH from		
Turbine Spread-footing Foundation	None	None	concrete	None	Potential for bedrock blasting
			Temporary localized		
			increase in pH from		
Turbine Caisson Foundation	None	None	concrete	None	Potential for bedrock blasting
		Minor channeling of			
		runoff to drainage			
Access Roads	None	ditches	None	None	
		Minor potential for			
		shallow groundwater			
		migration in trench			From turbine areas down to main
Belowgrade Transmission Lines	None	backfill	None	None	valley
Power Collection Structure	None	None	None	None	Shallow foundation
				Potential for	
				installation at edge of	
Overhead Transmission Lines	None	None	None	wetland	Wood Poles
Substation	None	None	None	Shallow foundation	Shallow foundation

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APPENDIX A

Selected Site Photographs





Possible Turbine Location Avery Hollow Rd, Facing North



Emergent Stream at Possible Turbine Location Avery Hollow Rd



Creek Flowing Over Bedrock Near Possible Turbine Site Mattice Rd.



Bedrock Outcrop - Mattice Rd.



Kirkwood Creek at Kirkwood Road



Stream Along Stanton Rd.



Typical Drainage Ditch, Excavated in Glacial Till, Lent Hill Rd.



Bedrock outcrop, Lent Hill, Facing North



Potential Turbine location on Pine Hill Rd.



Typical Landscape, Pine Hill Area



View Southwest of Twelvemile Creek Valley From Wagner Gully Rd.



Lakeville and Livonia RR, Looking North From Wentworth Rd.



Apparent Spring on Private Property, Stanton Rd. (white pipe in center of photo)



Typical Hillside Stream, Beecher Rd.



Emergent Stream, Rynders Rd., Looking East



Pond at Corner of Stanton and Lent Hill Roads

APPENDIX B

Logs of NYSDEC-Registered Water Wells



New York State Department of Environmental Conservation Division of Water

Bureau of Water Resource Management, 4th Floor 625 Broadway, Albany, New York 12233-3508 Toll Free: (877) 472-2619 • Ph: (518) 402-8291 • FAX: (518) 402-8290 Website: www.dec.state.ny.us/website/dow Email: NYSWells@gw.dec.state.ny.us



December 6, 2005

Bob Mahoney c/o Haley & Aldrich 200 Town Centre Dr., Suite 2 Rochester, NY 14623

> **Re**: Foil No. 05-2076 Town Water Well Records

Dear Mr. Mahoney:

The Bureau of Water Resource Management, within the Division of Water (DOW), has received your Freedom of Information Request dated November 29, 2005. This bureau has program responsibilities for the registration of water well drillers and the collection of water well records. The records we maintain are well completion reports which contain information pertaining to the construction of water wells (depth, yield, materials encountered, and it's location). Your information request may have been sent to other units of this Department who are responsible for responding to you separately.

We have located 50 (fifty) records to be responsive to your request. There is a \$0.25 charge per page for reproduction costs associated with this request.

Please remit, with this letter or a copy, thereof, a check or money order, made payable to the New York State Department of Environmental Conservation, in the amount of \$12.50; that is, \$.25 cents per photocopy. Enclosed are the copies you requested.

Future communications relative to this request may be sent to: NYSDEC, Div. of Water Bureau of Water Resource Management, Water Well Program 625 Broadway, 4th Floor Albany, NY 12233-3508 (Telephone # 518 402-8291)

Sincerely,

Camille Bright Environmental Analyst

(1) County STEUBEN			(3) DEC Well N	lumber 5	B1411
(2) Township_ <u>CONOCTON</u>		PLETION RE	PORT		
(4) OWNER ,				L	DG *
(5) ADDRESS	R. R.D. Coboc	Text	Gro Sur		6ft. above sea level
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(38) DATE REPORT FILED	(39) DRILLER & COMPANY	ON HAI/ (40)D	EC REGISTRATION NO.		
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CO	ONSERVATION
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(2) Township AVOCA			—	(3) DEC V	Vell Number		<u>>DI401</u>
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(2) Township Cohocton	14/5					301620
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(a) DomADTICLE DOTT WELL COMPLETION REPORT (a) DOMADTS (b) DUT_CALLETTING LOG * (a) DOMADTS DUT_CALLETTING CANOCTON VIEL (B) Intercented in Reverse) DUT_CALLETTING (b) DUT_CALLETTING DUT_CALLETTING Top Of Cashing is located Stratement LIGHt (A). (b) DUT_CALLETTING DUT_CALLETTING Top Of Cashing is located Top Of Cashing is located (b) DUALITY (B) STRATES CASHINGS Data MEASURED Top Of Cashing is located (c) DUALITY (B) STRATES CASHINGS Data MEASURED Top Of Cashing is located (c) DUALITY (B) STRATES CASHINGS Top Of Cashing is located Top Of Cashing is located (c) DUALITY (B) STRATES N N N N Top Of Cashing is located (c) DUALITY (B) STRATES N N N N N N (c) DUALITY (B) STRATES N N N N N N N (c) DUALITY (B) STRATES N N N N N N N N N N N N N N N N N N N <td< th=""><th>1) county <u>Steuben</u></th><th></th><th>•</th><th>(3) DEC Well Number</th><th>SB1840</th></td<>	1) county <u>Steuben</u>		•	(3) DEC Well Number	SB1840
(a) ALODESS UNTERNET LIGHT ALL HELMING (b) ALODESS Ground Light failuations on Reverse) Dutt AL (b) Failuations on Reverse) Failuations on Reverse Pailons on Reverse Pailons on Reverse Pailons on Reverse Pailon Reverse Pailon Reverse Pailon Reverse Pailon R	(2) Town () () () () () () () () () () () () ()	WELL CON	PLETION REPOR	<u> </u>	
BOUNDERS Brownell Brownell <td< th=""><th>(4) OWNER</th><th></th><th></th><th></th><th>LOG *</th></td<>	(4) OWNER				LOG *
IDECATOR OF WELL (BE converse) Dutter M Hill Rd. Top 01 Cealing is coaled IDECATOR OF WELL (BE converse) Q2 32' 38' 20' M 77' 29' 447.05' W IDECATOR OF WELL (BE converse) Q00 / (BE CONVERSE) Date MEASURED IDECATOR OF WELL (BE converse) 300 / (BE CONVERSE) Date MEASURED IDECATOR OF WELL (BE converse) 300 / (BE CONVERSE) Date MEASURED IDECATOR OF WELL (BE converse) 300 / (BE CONVERSE) Date MEASURED IDECATOR OF WELL (BE converse) 300 / (BE CONVERSE) Date MEASURED IDECATOR OF WELL (BE converse) 300 / (BE CONVERSE) Date MEASURED IDECATOR OF WELL (BE converse) 300 / (BE CONVERSE) Date MEASURED IDECATOR OF WELL (CONVERSE) (CONVERSE) TOP OF WELL IDECATOR OF WELL (CONVERSE) (CONVERSE) (CONVERSE) IDECATOR OF WELL (CONVERSE) (CONVERSE) </td <td>(5) ADDRESS</td> <td>-i11 Rd, (</td> <td>ohocton N</td> <td>Ground Surface EL</td> <td></td>	(5) ADDRESS	-i11 Rd, (ohocton N	Ground Surface EL	
C GPS ID DEC Website SQMep Interpolation (12.0.32.1.38.20'N) 77° 39.147.05'W TOP OF WELL (r) Detring to well below 300' (8) DEPT to GROUP ANTER Products DATE MEASURED (r) Detring to well below 300' (8) DEPT to GROUP ANTER Products DATE MEASURED TOP OF WELL (r) Detring to well below 300' (8) DEPT to GROUP ANTER Products In In (r) Detring to well below 1 In In In In (r) Detring to well below 1 In In In In (r) Detring to well below 1 In In In In (r) DEPT to the formation In In In In In (r) DEPT to to for Soletin, FROM TOP OF CASING (Feed) In In In In In (r) DEPT to to for Soletin, FROM TOP OF CASING (Feed) (20) DEATER In Domestice <	(6) LOCATION OF WELL (See Instructions On Re Show Lat/Long if available and method used:	everse) Dutch	Hill Rd,	Top Of Cas ft.above (+	sing is located) or below (-) ground surface
PTDEPTHOR VELL BELOW 300 / (P) DEPTH TO SCHUDWATER DATE MEASURED TOP OF WELL VELLAD SUBJEACE (Feed) 300 / (P) DEPTH TO SCHUDWATER DATE MEASURED TOP OF WELL (P) DAMETER IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	GPS DEC Website Map Interpolatio	"42°.32' 38	3.20'N 77° 2914	17.05 W	<u> </u>
(i) DUMMETER (ii) (iii) (iiii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) ((7) DEPTH OF WELL BELOW LAND SURFACE (Feet) 300	C (8) DEPTH TO GI BELOW LAND	ROUNDWATER DATE D SURFACE (Feet)	MEASURED	
(10) LENGTH n n n n (11) GROUT TYPE JEALING (12) GROUT / SEALING HTERVAL (FeBU n n (11) GROUT TYPE JEALING (12) GROUT / SEALING HTERVAL (FeBU n n (12) GROUT TYPE JEALING (12) GROUT / SEALING HTERVAL (FeBU n n (13) ORANET AMATERIAL (14) OPENINGS n n (14) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (FeBU n n n (15) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (FeBU TO TO NELD TEST (16) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (FeBU TO TO TO (16) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (FeBU TO TO TO (16) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (FeBU TO TO TO (16) DATE 9/LAG TLH Bail (13) STABLEZED DISCHARGE (GFM) TO (16) DATE DATE 9/LAG TLH Bail (13) STABLEZED DISCHARGE (GFM) TO TO (12) OLIVET METHOD GP LIP TALKIND DAVOONN (Stabledat) TO TO SCREEN (GFM) (14) DEPTH TO TOP OF CASING (FeBU (15) MARE HERDING (16) MARE HERDING TO TO	(9) DIAMETER	in 1	in.	in.	cucial
Construction Constructions Constructions </td <td>(10) LENGTH</td> <td></td> <td>• </td> <td>in de</td> <td>Glaci</td>	(10) LENGTH		•	in de	Glaci
SCREENS The SCREENS FROM TOP OF CASING (Feet) The SCREENS FROM TOP OF CASING (Feet) The SCREENS FROM TOP OF CASING (Feet) The SCREEN FROM TOP OF CASING (Feet) Colspan= 2 The SCREEN FROM TOP OF CASING (Feet)	(11) GROUT TYPE / SEALING	(12) GROUT / SE (Feel)	ALING INTERVAL FROM TO	<u> </u>	40'
(16) DIAMETER In.	(13) MAKE & MATERIAL	SCREENS (14) OPENINGS		ruit 1951	Broken
(16) LENGTH n. n. <td>(15) DIAMETER in.</td> <td>in.</td> <td>in. </td> <td>in. 1</td> <td>widay</td>	(15) DIAMETER in.	in.	in.	in. 1	widay
(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feed) The Lot TF BT (18) DATE 9 / 29 / 04 (19) DURATION OF TEST 6.0 m.i n (20) LIFT METHOD Pump (Air Lift or Bail) (21) STABILIZED DISCHARGE (GPM) 7 (22) STATIC LEVEL PRIOR TO TEST (23) MAXIMUM DRAWDOWN (Stabilized) 7 (24) RECOVERY (Time in hoursminutes) (25) WAX the water produced during test discharged away from immediate area? Yes_ No_ (24) PLIMP INSTALLED? (27) DATE (20) PUMP INSTALLER No_ (29) PUMP INSTALLED? (20) MAKE (31) MODEL No_ (29) PUMP INSTALLED? (20) DATE ORILLING (30) USE OF WATER No No (21) STALLED? (32) DATE ORILLING WORK STARTED (37) DATE DRILLING WORK COMPLETED No No No (39) DATE DRILLING WORK STARTED (39) DRILER & COMPANY No racy of (40) DEC REGISTRATION NO NS No NS No NG NO (39) DATE DRILLING WORK STARTED (39) DRILER & COMPANY <t< td=""><td>(16) LENGTH n. </td><td>ñ. </td><td>ft. </td><td>in.</td><td>stream</td></t<>	(16) LENGTH n.	ñ.	ft.	in.	stream
WELD TEST (18) DATE 9/29/04 (19) DURATION OF TEST 60 m.in (20) LIFT METHOD Pump Xair Lift 0 Ball (21) STABILIZED DISCHARGE (GPM) 7 (22) STATIC LEVEL PRICE TO TEST (23) MAXIMUM DRAWDOWN (Stabilized) 7 7 (24) RECOVERY (Time in hours/minutes) (23) MAXIMUM DRAWDOWN (Stabilized) 7 7 (24) RECOVERY (Time in hours/minutes) (27) DATE (20) PUMP INSTALLED No 7 (26) PUMP INSTALLED? YES NO (27) DATE (28) PUMP INSTALLED? No 7 (28) PUMP INSTALLED? YES NO (27) DATE (28) PUMP INSTALLER 7 7 (28) MAXIMUM CAPACITY (GPM) (23) PUMP INSTALLED IN LEVEL 7 7 7 7 (28) DATE DRILLING WORK STATED (37) DATE DRILLING WORK COMPLETED 0 7 7 7 (30) DATE DRILLING WORK STATED (37) DATE DRILLING WORK STATED (37) DATE DRILLING WORK COMPLETED 7 7 7 (30) DATE DRILLING WORK STATED (37) DATE REPORT FILED (37) DATE ACCOMPANY 0 7 7 7 (30) DATE DRILLING WORK STATED (37	(17) DEPTH TO TOP OF SCREEN, FROM TOP (OF CASING (Feet)		- Coc	-18
(18) DATE 9/29/04 (19) DURATION OF TEST 60 m.in 30 (20) LIFT METHOD Pump QAIr Lift Bail (21) STABILIZED DISCHARGE (GPM) 7 (22) STATIC LEVEL PRIOR TO TEST (23) MAXIMUM DRAWDOWN (Stabilized) (feel/inches below top of casing) (23) MAXIMUM DRAWDOWN (Stabilized) (feel/inches below top of casing) 5 SAAAStol (24) RECOVERY (Time in hours/minutes) (25) Was the water produced during test (23) MAXIMUM CAPACITY (GPM) (27) DATE No 9 (28) PUMP INSTALLED? (29) TYPE (30) MAKE (31) MODEL 9 9 (29) TYPE (30) MAKE (31) MODEL 9				47	
(20) LIFT METHOD □ Pump QAir Lift □ Bail (21) STABILIZED DISCHARGE (GPM) 7	(18) DATE 9/29/04	(19) DURATION (DFTEST 60 min	s s	chate.
(22) STATIC LEVEL PRIOR TO TEST (feed/inches below top of casing) (23) MAXINUM ORAMDOWN (stabilized) (feed/inches below top of casing) Image: Comparison of casing) (24) RECOVERY (Time in hours/minutes) (25) Was the water produced during test discharged away from immediate area? Yes No No (26) PUMP INSTALLED? YES (27) DATE (28) PUMP INSTALLER S (29) TYPE (30) MAKE (31) MODEL S (32) MAXIMUM CAPACITY (GPM) (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet) The statute of	(20) LIFT METHOD	D Bail (21) STABILIZED	DISCHARGE (GPM)	22	Jeto
(24) RECOVERY (Time in hours/minutes) (25) Was the water produced during test discharged away from immediate area? YesNo/ No/ (26) PUMP INSTALLED? YESYESNO (27) DATE (28) PUMP INSTALLER No/ (26) PUMP INSTALLED? YESYESNO (27) DATE (28) PUMP INSTALLER No/ (27) TYPE (30) MAKE (31) MODEL No/ No/ (32) MAXIMUM CAPACITY (GPM) (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet) No/ No/ (34) METHOD OF DRILLING (36) DATE DRILLING (35) USE OF WATER (see instructions for choices) No method for the feet) No method for the feet) (36) DATE DRILLING (37) DATE DRILLING WORK STARTED (37) DATE DRILLING WORK COMPLETED No mathod for the for	(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(23) MAXIMUM D (feet/inches b	RAWDOWN (Stabilized) below top of casing)	1 d	Sanas
PUMP INSTALLATION (28) PUMP INSTALLED? (28) PUMP INSTALLED? (29) TYPE (30) MAKE (31) MODEL (32) MAXIMUM CAPACITY (GPM) (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet) (34) METHOD OF DRILLING KRotary □ Cable Tool □ Other (35) DATE DRILLING KRotary □ Cable Tool □ Other (36) DATE DRILLING WORK STARTED (39) DATE DRILLING WORK STARTED (37) DATE DRILLING WORK STARTED (38) DATE REPORT FILED (30) DRILLER & COMPANY NOT A Vector (40) DEC REGISTRATION NO. 10/11/04 * Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casing; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary. See further instructions for New York State Well Completion Report".	(24) RECOVERY (Time in hours/minutes)	(25) Was the wate discharged av	er produced during test way from immediate area? Yes	, 3	
TESNU	(26) PUMP INSTALLED?	27) DATE	(26) PUMP INSTALLER	. ú	
(32) MAXIMUM CAPACITY (GPM) (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet) (34) METHOD OF DRILLING (A4) METHOD OF DRILLING (See instructions for choices) Do me Stic (See instructions for New York State Well Completion Report". The struction for those (See instructions for New York State Well Completion Report".	(29) TYPE ((30) MAKE	(31) MODEL	<u>م بر</u>	
(34) METHOD OF DRILLING (35) USE OF WATER (see instructions for choices) Do MeStic 37 (34) METHOD OF DRILLING (35) USE OF WATER (see instructions for choices) Do MeStic 37 (38) DATE DRILLING WORK STARTED (37) DATE DRILLING WORK COMPLETED 38 9/28/04 9/29/04 9/29/04 (38) DATE REPORT FILED (39) DRILLER & COMPANY Moravec 10/11/04 Will(iam A. Moravec 100a4 * Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary. BOTTOM OF HOLE See further instructions titled "Instructions for New York State Well Completion Report". NYSDEC COPY	(32) MAXIMUM CAPACITY (GPM)	(33) PUMP INSTA FROM TOP C	ALLATION LEVEL DF CASING (Feet)	re at	
(34) METHOD OF DRILLING (35) USE OF WATER (Rotary © Cable Tool © Other (35) USE OF WATER (36) DATE DRILLING WORK STARTED (37) DATE DRILLING WORK COMPLETED (38) DATE REPORT FILED (39) DRILLER & COMPANY (39) DATE REPORT FILED (39) DRILLER & COMPANY MOTAVEC Int 100034 * Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary. See further instructions titled "Instructions for New York State Well Completion Report".		l The content of the content of the second		ž ,	
(38) DATE DRILLING WORK STARTED (37) DATE DRILLING WORK COMPLETED 3 3 (38) DATE REPORT FILED (39) DRILLER & COMPANY 9 29 04 3 </td <td>(34) METHOD OF DRILLING (Rotary Cable Tool Other</td> <td>(35) USE OF WAT (see instruction</td> <td>rer ons for choices) Do Mest</td> <td>i C to to</td> <td></td>	(34) METHOD OF DRILLING (Rotary Cable Tool Other	(35) USE OF WAT (see instruction	rer ons for choices) Do Mest	i C to to	
(38) DATE REPORT FILED (39) DRILLER & COMPANY Moraved (40) DEC REGISTRATION NO. # # # # # # # # # # # # # # # # # # #	(38) DATE DRILLING WORK STARTED	(37) DATE DRILLI	92904	ite .	-
 Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary. See further instructions titled "Instructions for New York State Well Completion Report". 	(38) DATE REPORT FILED (3	Dilliam A. (Dilliam A. (Moravector 10	TRATION NO. KR	
See further instructions titled "Instructions for New York State Well Completion Report".	 Show log of geologic materials en beds and water levels in each; cas matters of interest, e.g., water qua separate sheet if necessary 	countered with depth t sings; screens; pump; lity (sulphur, salt, meth	below ground surface, water additional pumping tests and hane). Describe repair work	bearing I other	I L 300'
•	See further instructions titled "Instructions	ructions for New York	State Well Completion Repo	n". NY	SDEC COPY

1) County StEUBEN	((3) DEC We		BI207
(2) Township LONDCIDN	WELL COMPI		RT	20	
(4) OWNER		<u></u>		Ĺ	.OG *
(5) ADDRESS	Hollow RD. Col	OCTON NY		Ground Surface EL. 20	50 ft. above sea level
(6) LOCATION OF WELL (See Instructions On Show Lat/Long if available and method used: GPS II DEC Website II Map Interpola	Neversely 42°27,7 No W H077°31	76' 1.657'		Top Of Casing is it.above 🔂 or bel	located ow (-) ground surface
(7) DEPTH OF WELL BELOW LAND SURFACE (Feet)	(8) DEPTH TO GROUN BELOW LAND SUR	DWATER FACE (Feel) 795 DA	TE MEASURED	TOF	OF WELL
(9) DIAMETER in.	in.	(n.	in.	0-10'	LARGEFLAT CHUNKS
(10) LENGTH 55 ' tt.		ft.	in.		BROWN SAND STONE
(11) GROUT TYPE / SEALING BENTON IT	E (12) GROUT / SEALING (Feel)	FROM 0 T	° <u>20</u>	10-35'	BROWN
(15) DIAMETER				35-50'	BROWN +
(16) LENGTH ft.	ft.	ft.	in.		FREY CLAY + GRAVEL
(17) DEPTH TO TOP OF SCREEN, FROM TO	P OF CASING (Feet)		116 ST 18 YAA		RODWN
(18) DATE 6/1/01	(19) DURATION OF TE	st 45'		50-255	SANDSton
(20) LIFT METHOD	(21) STABILIZED DISC	HARGE (GPM) 15			
(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	25' (23) MAXIMUM DRAWD (feet/inches below to	DOWN (Stabilized)	0'		
(24) RECOVERY (Time in hours/minutes)	25) Was the water prod discharged away fro	uced during test m immediate area? Yes 🛃	No		
(26) PUMP INSTALLED? YES YO	(27) DATE	28) PUMP INSTALLER	· (((((((((((((((((((
(29) TYPE JUB	(30) MAKE GOULDS	31) MODEL 76-51042	2		
	(33) PUMP INSTALLATI FROM TOP OF CAS				
O → → → → → → → → → → → → → → → → →	(35) USE OF WATER (see instructions for	choices) Dome (Tic	-	-255'
(36) DATE DRILLING WORK STARTED	(37) DATE DRIVLING W				Do Irom
(38) DATE REPORT FILED	(39) DRILLER & COMPANY RONHALL DANSVILLE WAY	(40) DEC REG	294 294		
Show log of geologic materials e beds and water levels in each; c matters of interest, e.g., water qu	encountered with depth below asings; screens; pump; addit uality (sulphur, salt, methane	v ground surface, wate tional pumping tests a). Describe repair wo	er bearing nd other rk. Attach	вотто	M OF HOLE
separate sheet if necessary. See further instructions titled "In:	structions for New York State	Well Completion Rep	ort".	NYSDE	CCOPY

					LOG *
					200
East Ave	Rochest	2 NY 146	<i>•</i> 04	Ground Surface EL. 18	$\underline{H_{6}}$ ft. above sea lev
(6) LOCATION OF WELL (See instructions On Re Show Lat/Long if available and method used: 042928 GPS DEC Website XMap Interpolation	everse) Potter 123.87°N 10	Hin Rd 077°31'7.80	ťω	Top Of Casing i ft.above (+) or b	s located elow (-) ground surfac
(7) DEPTH OF WELL BELOW LAND SURFACE (Feet) 4.90	(8) DEPTH TO BELOW LA	GROUNDWATER ND SURFACE (Feet)	DATE MEASURED	тс	OF WELL
人。但是時代至今後11年代,後代以上國際國家的分支	CASINGS	C to a fight produce the	Aldrew K. Brun		
(9) DIAMETER	in.	in.	in.		
(10) LENGTH					
37'5'2*1	ft.	ft.	in.	1	Glacia
(11) GROUT TYPE / SEALING	(12) GROUT / S (Feet)	SEALING INTERVAL FROM	_ то		+11
	SCREENS				
(13) MAKE & MATERIAL	(14) OPENING	\$			24'
(15) DIAMETER	J				
in,	in.	in.	in.		
(15) LENGTH ft.	ft.	ft.	io.		
(18) DATE		I OF TEST	<u>د ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ،</u>		Shale o
11/12/01		60 min			Sands
ר Pump KAirLift נעריין (20) בוריז אפוראסט Pump KAirLift נעריין	Bail	D DISCHARGE (GPM)			
(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(23) MAXIMUM (feet/inches	DRAWDOWN (Stabilized) below top of casing)			
(24) RECOVERY (Time in hours/minutes)	(25) Was the wa discharged	ater produced during test away from immediate area? Ye	s No		
。」。「ALL #114月19日),社民的联系和中国	PUMP INSTALLAT		的时候又为我们		
(26) POMP INSTALLED? (2 YES NO (2)	27) DATE				
(29) TYPE (1	30) MAKE	(31) MODEL			
、	(33) PUMP INS	TALLATION LEVEL			
(32) MAXIMUM CAPACITY (GPM)	FROM TOP	OF CASING (Feel)			
(32) MAXIMUM CAPACITY (GPM)	FROM TOP	OF CASING (Feet)	14111-132、新闻和思考。		
(32) MAXIMUM CAPACITY (GPM) (34) METHOD OF DRILLING W Rotary El Cable Tool El Other	FROM TOP (35) USE OF W. (see instruc	OF CASING (Feet)	A AND MARKED		
(32) MAXIMUM CAPACITY (GPM) (34) METHOD OF DRILLING (34) METHOD OF DRILLING (36) DATE DRILLING WORK STARTED	(37) DATE DRIL	OF CASING (Feel)	stic		
(32) MAXIMUM CAPACITY (GPM) (34) METHOD OF DRILLING XRotary Cable Tool Other (36) DATE DRILLING WORK STARTED 1170 (38) DATE REPORT FILED	(35) USE OF W. (35) USE OF W. (see instruc (37) DATE DRIL 39) DRILLER & COMPANY	OF CASING (Feel) ATER tions for choices) Do MC S LING WORK COMPLETED 11/12/0) 1400 DEC	SHC		
(32) MAXIMUM CAPACITY (GPM) (34) METHOD OF DRILLING (34) METHOD OF DRILLING (36) DATE DRILLING WORK STARTED (36) DATE REPORT FILED (37) DATE REPORT FILED	(35) USE OF W. (35) USE OF W. (see instruc (37) DATE DRIL (37) DATE DRIL (37) DATE DRIL (37) DATE DRIL (37) DATE DRIL (37) DATE DRIL (37) DATE DRIL	OF CASING (Feel) ATER tions for choices) Do mes LING WORK COMPLETED 11/12/01 NO ravec (40) DEC	REGISTRATION NO.		
(32) MAXIMUM CAPACITY (GPM) (34) METHOD OF DRILLING (34) METHOD OF DRILLING (36) DATE DRILLING WORK STARTED (36) DATE DRILLING WORK STARTED (38) DATE REPORT FILED (38) DATE REPORT FILED	(35) USE OF W. (35) USE OF W. (see instruc (37) DATE DRIL (37) DAT	OF CASING (Feel) ATER tions for choices) Do mes LING WORK COMPLETED 11/12/01 NO ravec vec. Inc.	REGISTRATION NO.		

(1) County Steuben

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(3) DEC Well Number

SB1448

(2) TownshipCohocton	WE		LETI	ON RE	PORT	L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(4) OWNER					۵۵، _۱ ۰۰ - ۵۵۵ - ۵۵۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹۹ - ۵۹		LOG *
(5) ADDRESS State_Rte-2-1	P	Wayland, N	I <u>Y</u> 1	4572		Ground Surface EL120	8ft. above sea level
(6) LOCATION OF WELL (See Instructions On F Show Lat/Long if available and method used: 42 [●] 3 ⊈GPS □ DEC Website □ Map Interpolat	Reverse) 3,9451 ion	a 7	7 29	.242W		Top Of Casing is ft.above (+) or be	located <u>2 approx</u> elow (-) ground surface
(7) DEPTH OF WELL BELOW LAND SURFACE (Feet) 4.2		(8) DEPTH TO GROU BELOW LAND SU	NDWATER	t eet)	DATE MEASURED	то	
	C C	ASINGS		t spinster sore			1 1 21
(9) DIAMETER <u>6</u> in.	in.	<u> </u>	in.	<u> </u>	in.	-	Brown
	**	1	8	1	in		1 Clam
		(12) GROUT / SEALIN	IG INTER	AL			
,,,		(Feet)	FR	ОМ	то		
(13) MAKE & MATERIAL	<u></u> 80	REENS (14) OPENINGS	-16-9- <u>7</u> 8				
(15) DIAMETER in.	ín.		in.		in.		
(16) LENGTH ft.	ft.		ft.	1	in.		1112-42.
(17) DEPTH TO TOP OF SCREEN, FROM TOP	OF CASING	(Feet)					Brown
	-		Call Color Barry	uno di inte		with	
(18) DATE		(19) DURATION OF T	EST				11 Savel
(20) LIFT METHOD D Pump D Air Lift	🗆 Bail	(21) STABILIZED DIS	CHARGE	GPM)			
(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)		(23) MAXIMUM DRAV (feet/inches below	VDOWN (S v top of cas	tabilized) ing)			
(24) RECOVERY (Time in hours/minutes)		(25) Was the water pro discharged away	oduced dui from imme	ing test diate area?	Yes No		
(26) PUMP INSTALLED? YES NOX	(27) DATE	NSTALLATION	(28) PUN	PINSTALLER			
(29) TYPE	(30) MAKE		(31) MOE	DEL			
(32) MAXIMUM CAPACITY (GPM)		(33) PUMP INSTALLA FROM TOP OF C	TION LEV ASING (Fe	EL eet)			
(34) METHOD OF DRILLING Q Rotary Cable Tool Other		(35) USE OF WATER (see instructions f	or choices	farm	/domestic		
(36) DATE DRILLING WORK STARTED 6/21/02		(37) DATE DRILLING	WORK CC	MPLETED	· · · · · · · · · · · · · · · · · · ·	1	
(38) DATE REPORT FILED	(39) DRILLER	R& COMPANY		(40) DI	EC REGISTRATION NO.]]
6/21/02	Updi) Milt	ke Water W ton E. Upd	Vell like	Drille NY	rs RD10070	42'of	
* Show log of geologic materials e beds and water levels in each; c matters of interest, e.g., water qu separate sheet if necessary.	encountere asings; sc Jality (sulp	ed with depth bek reens; pump; add hur, salt, methar	ow grou ditional 1e). De	nd surface pumping te scribe rep	e, water bearing ests and other air work. Attach	Casing	TOM OF HOLE

See further instructions titled "Instructions for New York State Well Completion Report".

(1	county Steuben					ioll Number	CR	1506	
(2) Township Cohoctor								
ſ	(4) OWNER	AAT					LOG	*	1
	(5) ADDRESS				14826	Ground			
	Wagner	< 60	rly Rd	Cohoc	ton NY	Surface EL.	<u>929</u> ft.;	above sea level	
	(6) LOCATION OF WELL (See Instructions On Show Lat/Long if available	Reverse)	W	agner 1	Sully Rd	Top Of Casin ft.above (+) o	g is located r below (-)	d ground surface	
	GPS □ DEC Website	13.04 lion	4"N 07	7°26'3.	5.24"W				
	(7) DEPTH OF WELL BELOW LAND SURFACE (Feet) 380	/	(8) DEPTH TO GROU BELOW LAND SU	NDWATER IRFACE (Feet)	DATE MEASURED			VELL	ļ
			ASINGS	國的政治和中心教育的思想				Glacial	
	(5) DRIVETER (6 in.	jn,		in.	in.			+111	
	(10) LENGTH つはし # 1	6	1	- ft	in.			- L.	
	(11) GROUT TYPE / SEALING		(12) GROUT / SEALIN	IG INTERVAL FROM	то то			Shan	
		S	REENS				D	ronetor	he
	(13) MAKE & MATERIAL		(14) OPENINGS	<u> </u>				sana	
	(15) DIAMETER		. <u> </u>	- <u> </u>					
	in.	in.		in.	in.				
	fi.	ft,	<u> </u>	ft.]	ìn.				
	(17) DEPTH TO TOP OF SCREEN, FROM TO	P OF CASING	(Feet)						
		N. S. YI	LDITEST	aaMetrophay New 1973 th					
	(18) DATE 9602		(19) DURATION OF T	^{EST} 90 M	in				
	(20) LIFT METHOD	🗅 Bail	(21) STABILIZED DIS		-10				
	(22) STATIC LEVEL PRIOR TO TEST (feeVinches below top of casing)		(23) MAXIMUM DRAV (feet/inches below	VDOWN (Stabilized) (top of casing)				-190	
Ì	(24) RECOVERY (Time in hours/minutes)		(25) Was the water produced discharged away	oduced during test from immediate area?	Yes No			110	
Į			NSTALLATION	(28) PUMP INSTAL	Real and the second			chale	
Ą	YES NO							ul astor	he
	(29) TYPE	(30) MAKE		(31) MODEL				"Banu "	
	(32) MAXIMUM CAPACITY (GPM)	I	(33) PUMP INSTALLA FROM TOP OF C	TION LEVEL ASING (Feet)				streun	
			alad Michigan State	用加速调整地					
	(34) METHOD OF DRILLING XRotary Cable Tool Other		(35) USE OF WATER (see instructions f	ior choices) bo r	nestic				ł
ļ	(36) DATE DRILLING WORK STARTED		(37) DATE DRILLING	WORK COMPLETED					
	(38) DATE REPORT FILED	(39) DRILLE		2×CQ VQ C (40) DEC REGISTRATION NO.				
	10/15/02	Barn	ey Mora	vector	10024			- 6	
ſ	* Show log of geologic materials e		d with depth bel	ow ground surfa	ice, water bearing			- 380	ĺ
	matters of interest, e.g., water qu	uality (sulp	hur, salt, methar	ne). Describe r	epair work. Attach	BC			
	separate sheet if necessary.					NYS	SDEC	COPY	
	See further instructions titled "In	structions	for New York Sta	ite Well Comple	tion Report".				

r Se

(5) ADDRESS					Ground	.0G *
POTTER Hill 1	PD (chocton	19826	a	Surface EL./ /0	7 ft. above sea leve
(6) LOCATION OF WELL (See Instructions On I Show Lat/Long if available and method used: GPS DEC Website D Map Interpolat	Reverse) ion				Top Of Casing is ft.above (+) or bel	located low (-) ground surface
(7) DEPTH OF WELL BELOW LAND SURFACE (Feet)		(8) DEPTH TO GRO BELOW LAND S	UNDWATER URFACE (Feet) 60	DATE MEASURED	TOF	OF WELL
	C	ASINGS		的同种词作品的现在分词	0-18'	BROWN
(9) DIAMETER	in.	ļ	in.)	in.	0 /0	GRAVEL
(10) LENGTH			r 1	in		SANO MI
(11) GROUT TYPE / SEALING	-	(12) GROUT / SEAL (Feet)	ING INTERVAL FROM	TO	18-45'	BROWN
WATUKAG-DAIN CAI	////// S(REENS			1	CLAYN
(13) MAKE & MATERIAL		(14) OPENINGS	<u>na an an Anna Anna Anna Anna Anna Anna </u>	, · · · · · · · · · · · · · · · · · · ·		Jomeonno
(15) DIAMETER				in	45-85'	BROWN
(16) LENGTH		I		41.		SANO-
ft.	ft.		ft.	in.		DIRTY
(17) DEPTH TO TOP OF SCREEN, FROM TOP	P OF CASING	(Feet)				WATER ISE.
	YIE	LD TEST		的關鍵。其他目的目的目的		
(18) DATE 8/25/02		30 m	IN ISI		85-118	BROWN
(20) LIFT METHOD	Bail	(21) STABILIZED DI	SCHARGE (GPM)			CLAY
(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	0'	(23) MAXIMUM DRA (leet/inches belo	WDOWN (Stabilized)	12	_	GRAVE / M
(24) RECOVERY (Time in hours/minutes)	min	(25) Was the water p discharged away	produced during test y from immediate area?	res No	118'-150'	BROWN
		NSTALLATION	(28) PUMP INSTALLER	a den de manifesta de la dela		Stowe
YES NO	(21) 0010		(
(29) TYPE	(30) MAKE		(31) MODEL		150-220	GREY SAN
(32) MAXIMUM CAPACITY (GPM)		(33) PUMP INSTALL FROM TOP OF	ATION LEVEL CASING (Feet)			JATER
		Western States of the				BEARIN
(34) METHOD OF DRILLING		(35) USE OF WATER (see instructions	R (for choices)	5770		-1.22.0'
(36) DATE DRILLING WORK STARTED		(37) DATE DRILLING	G WORK COMPLETED	<u></u>	-	BOTTON
38) DATE REPORT FILED	(39) DRILLEF	E COMPANY A	16 11 (49) DF	C REGISTRATION NO		
ulul an	DANS	VILLE WA	TERWELLS 10	0294		
4/4/03					7 I	I
* Show log of geologic materials e	encountere	d with depth be	elow ground surface	, water bearing		

	¥¥	ELL COMPLET	ION REPOR	<u>r</u>		
Villege	of Con	8cton				
P.O. B .x	, Cah	octon, NI	(1 4 826	Groun		Tit. above sea lew
(6) LOCATION OF WELL (See Instru Show Letting V avelable	ations On Reverse)	07 77-2	***	Top O	(Cauling is to: re (+) or below	cated 🔶 👱
(7) DEPTH OF WELL BELOW LAND SURFACE (Feet)	100'	IN DEPTH TO GROUNDWATT BELOW LAND SURFACE	# 46.3' DATEN	LASURED	TOP	OF WELL
					N	3
16 11	10 " n	(16 num	oned)		N	
30 • 1	1001.	190-10 "6	eft in pla	eae	E	3
(11) GROUT TYPE/SEAUNO		(12) GROUT / BEALING INTER	TO TO		24	2
(13) MANCE & MATERIAL		(14) OPENINGS			E	
(15) DIALETER	- 210H	(a The in	rewrap 0.	Jao S.	Ē	E
	Scope ch	12-78" 1.2	<u> メノ</u>	ð	300	P
12.60	p 2'-0	2.000 Ty	ht wrap			
PROPERTY AND TOP OF SCREEN, I	90	(Faet)		÷		
(14) CATE OF -L / 21	- <u>-</u>	(19) DURATION OF TEST	9 4			
(20) LIFT METHOD		(21) STABILIZED DISCHARGE	I MOUTS			
(22) STATIC LEVEL PRIOR TO TES		(23) MAXIMUM DRAMDOWN		1		
(24) RECOVERY (Time in hourstnin		(25) Was the water produced d	ring test	800/		
3 hro	anda <u>113. (Pingto</u> i					
24) PLANP INSTALLED? YES	NOX CET DATE	(28) 81	MP WEYALLER	8		
(29) TYPE	(30) MARE	(31) MC	DEL			
(22) MAXIMUM CAPACITY (CPM)	L	(20) PUMP INSTALLATION LE PROM TOP OF CASING (1	VEL.	e	90'-	
er e rekont	法 報告 麗 深心		222-04-24-3		F	10' 5
	er	(vest lentralization for the	UNICIPH S	my a		0.100
		(37) DATE DRILLING WORK C		3		Screen
		R & CONIDANY	(40) DEC REGISTI	RATION NO.	ļ	- AF
(M) DATE DRILLING WORK START	(39) DRLLE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
(30) DATE DROLLING WORK START 11-1-03 (30) DATE REPORT FRED 2-27-03 (30) DATE REPORT FRED	Mee de	A ASSOCIAL	tas 1018	73	00' E	
(a) DATE DRALLING WORK START H = I - C 3 (a) DATE REPORT FILED 2 - 27 - 03 * Show log of geologic me bedd end water levels in mathematical intervels in mathematical intervels in	iterials encounter Bach; casings; si	ed with depth below gro preens; pump; additional	tes /0/2	73 icenting other	воттом	ADFHOLE
(so) DATE DRELING WORK START I = I - I - 2 (so) DATE DRELING WORK START I = 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	tariels encounter bach; casings; si water quality (suj ary,	ed with depth below gro preent; pump; additional phur, sail, methane). D	tes 1018 und surface, water b pumping tasts and escribe repair work.	73 obter Attach		

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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•	4/12/5	~~~			
(7)County Keubers	S) (2)DEC Well I	tumber 3K	-1137
	WELL COMP	LETION REPOR	<u>π</u>	· .	
IOWNER Village of Con	sctar			Grund Sulice * LOG	
15 South Main P.O.	Bax, Coho	ton NY 19	1826	1301	1. above and
(1) LOCANGLOE WELL N 42º 3/, 29"	N 71°28	39+			2 2
(5) DEPTH OF WELL BELOW SURFACE	(7) DEPTH TO GROUNDW	NIER		TOPOTH	D BT
	CHANNE			·	Same Clay
(0) DAME TER / //	<u>£</u> 1	h.	<u> </u>	andy a	Comot
MLENGTH 34-1 84	R	£ [n [2	rate //	ant
(10) SEALING	(11) CASINGS REMOVED	16 "remo	nal	Brown Sand	
(12) MAKE & MAYERIAL	(13) OPENINGS			Starol 1	10.00
Johnan Wise Whap &	timber tel	0.060 "	t	-22 Grev	
10" tobacque (9	1-100 × 878	-IO)	h	fint Silly	1
(15) LEWETH (841-941)).	•	- 1	formell jo	
(16) DEPTH TO TOP FROM TOP OF CASING		······		cabbles	
-577 DATE			12-12-22	61035	
	Moo dy - 3			sand up	Some
(rej Durachiov Ci- (ES) Inser, anim			lens per min.	anel	streets
(21) STATIC LEVEL PRIOR TO TEST In. below 1. top of contra	(22) LIIVIE. DURING MAX	ing in Public in C	h. tuter eff cashig	Cabb les	
(25) MAXIMUM DRAINDOWN	normalisate time of ration to normal Norma	land after consultan of pumple	19 19 1 -	Stowin Spanie	
		CIENCER NUMBER		Svaneluy Clark	
				Streaks	· ·
(27) MOTIVE POWER ((28) MARE				Hearing	
(30) CAPACITY Sp.m. 10		t. d ástary	sheet	o co bola	
(31) HUMBER OF BOWLS OR STAGES	······································	È. el t			
CIZ) DIANETER & CIS) LENGTH		NETH LAN	<u></u>	CHARSE ARC	
		1		med.	
(38) METHOD OF DRILLING	(ST) USE OF WATER	1 Secalit	-	Cobbles, +	
(SHIMORIK STARTED	(M) WORK COMPLETED	- All		Duilders AL	K-PACKER
(40) DATE (41) DRULER, COMPANY	Davis Con	(+2) MEGISTIN	ATTOM NO.	Med. %	N'H
2/19/04 6 Manda 0	Associates.	to 101.	83	araval Monters	Sister School
"See additional institutions on back. Show by	of gaslagic materials encount	ared, with depth holow get		Grave I	The sand
matters of interest, e.g. water quality (subplue, an	it, moliticaj. Describe reptir v	rent. See Instructions as t	o Well	Duolicate	- Retain

YILlage Alom	octan		Ī		LOG*
1580, Main St, Y	20.20	, Cokotton ,	NY	Ground Surface EL	
LOCATION OF WELL (In a base state of the Rev or Laft and 2 methods a particle avect GPS CI DEC Website CI Map Marpolation	42-31.	289' W 77. 2	8-380	Top Of Casing i Labove (+) or b	s localisd alow (-) ground surface
UNION WELL BELOW 591	HI OBITO	TO GROUNDWATER	-28-0	π	IP OF WELL
	na (10 010) (10 010) and 18 (10 010) (10 010) (10 010)		-*** ***: <u></u>		
6-1	· • • •	h.	N .	ļ	
59 -1	<u> </u>	•]	ia,		
a) GROUT TYPE/ SISAUNG	(17) GROU (Fault	TT / SIGNLING INTERNAL FROM TO		8	
NO	(H)CHEN			N	
1) OMMETER 41.		a. j	b.		
R I	e /	£ /			
7) DEPTH TO TOP OF SCHEEN, INDM TOP O	P CASENG FreeD	<u></u>		3	
<u></u>	tradicità data	ten og grænderige			
AD AD		mon of test		l Ni	11
	1] : X	
DISTINETION CIPUID D'AILUR D	Seli (21) STAB	EIZED DISCHARGE (GPI-2		a	
DI SFT METRICO D Pump D Alr Lin D 20 STATIC LEVEL PRIOR TO TEST (anticulari tative tap of cantag)	Stali (21) STAB	LDED CISCHANGE (CP4) IIIIII CIRANOCHPI (Sublicul) Iclas Tahur Isp of calaity)		Sian	
9) LIFTMETHOD C Pump D Air Lift D 2) STATIC LIEVEL PRIOR TO TEST (Restitution below top of coning) 4) RECOMENT (Time.in tourstationists)	Sell (21) STABI (23) MAXIM (23) MAXIM (20) West In dischool	EDED DISCHARGE (DP4) upta DRAINCOMP (Dublical) chan taker kp: of charge he water produced daring test gold drain force forced daring test		Gran	
IN LIFT METHOD C Pump D Air Lift D 20 STATIC LIBYEL PROOF TO TEST (Restitution before to discussion) 4) RECOVERY (Time in transforming) 4) RECOVERY (Time in transforming) 5) SUMP REFINITION (The second seco	Suit (21) STAR	EDED ORSCHWIGE (GPA) ADM DRAWCHIN (Smithen) chan taker ke of charte) he water produced daring test ged daring for familia and? Ver		um Gran	
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Village	1 Cohoct	an		L	DG *
5 S. Main, P.C.	D. Box	Condition	M	Ground Surface EL 30	2 R. above sea level
GPS D DEC Website D Map transposed	#2·3/ _* 29/	, / / //. 2	81300	ft.above (*)'or bek	w {-} ground surface
	ALLOW LAN		1-28-0		
Connertor 6 -1	· • •	m.	b.		
	• 1	• 1	*-		
II) GROUT TYPE/ SEALING	(12) (000)(011/SE (Ford)	ALING INTERVAL FROM			
CONTRACTORAL	Interesting				
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al) (HECOVERY (There in January)	(20) Wiss the vest discharged a	er producent during best way fröch kommetligte prost? 74 	·····	U V	
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<u></u>		10-03		2	
2~1.7-03		CQX (10)08	CREDISTINATION NO. N/SP 2		
Show log of geologic materials a	nousiered with depth	below ground surface,	water bearing	マレ	1001
bads and water levels in each; ca metters of interest, e.g., water qu	Minge; screens; jump; ality (sulphur, sait, mei	additional pumping tes hume). Describe repe	ilsand ofher Irwork, Atlach	оттов	N OF HOLE
Sectors ansat a necessary.		Carlo Minth Co	the second	NYSDE	C COPY
LOCATION SKETCH - Indicate nor	т а				
	ATTACHEL	7			

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(1) County Steuben		!		(3) DEC W	ieli Numbar	5B-1517
(2) Township <u>Cohoc</u> 70.	17 VAR			POPT	E.	
(4) OWNER	VV (SPORT		106*
Village	of (o hout	on			2003
15 5. Main St	. , P.	0,80x	, Co,	hacton	Surface E	An above sea level
(5) LOCATION OF WILL (See instructions On Show LettLong If available	Reference)	21.281	1-W 72	79 270	Top Of Casing (Labove (+) or t	is located <u>+2</u> selowr (-) ground surface
GPS DEC Webshe D Map Interpola	tion	511700		~~~,>~		
(7) DEPTH OF WELL BELOW LAND SURFACE (Feel)	1	(8) DEPTH TO GROU BELOW LAND 3D	NDWLATER	DATE MEASURED	Ť	OP OF WELL
	- E	A Selfander Hasta	E 19 2.5.12.12	in it it in this		-
(B) DAAMETER 6 4	tr.	<u> </u>	in j	in.	•	
(10) LENGTH	ħ	1	e	in.	f	
(11) GROUT TYPE / SEALING		(12) GROUT / SEALH	PROM		5	
		1.2011 (SE 4200119	n on the month		*	
(13) MAKE & MATERIAL	6	(14) OPENINGS			10	
(16) DIAMETER	ks.	1	h.]	in.	٤	
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(17) DEPTH TO TOP OF SCREEN, FROM TO	P OF CASHO	(Feel)			- Au	
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(ISI DATE	6	(19) OURATION OF T	est .		0	
(20) LIFT METHOD	⊂ 8∎1	(21) STABILIZED DIS	CHARGE (GPM)			
(22) STATIC LEVEL PRIOR TO TEST Resilicities before top of casing)		(23) MAXIMUM DRAY	DOWN (Stabilized)		6 X	
(24) RECOVERY (Time in hourstminutes)		(25) Wea the weter pr	aduced during lest		1.5	
The state of the state of the					4. 8	
(28) PUMP INSTALLED?	(27) DATE		(25) PULL HETALLE	R	88	
(29) TYPE	(30) MAUCE		(31) MODEL		EE	
(12) MAXIMUM CAPACITY (QPM)		(33) PUMP INSTALLA	TION LEVEL		, É	
	38 22	PROMITOP OF C		21° - 2118° - 22 - 23 - 23		
(34) VETHOD OF DRULLING	1961 - 2 - 62 -	(35) USE OF WATER	EXPLORA	TORY +	VA N	
Del Rotary Cette Tool C Citter		CASE AV	HUNK COMPLETED	NELL	S	
8.1.02		8.	30.02		<u>Q</u>	
(M) DATE REPORT FILED 2-27-27-23	(30) DANE	RECONDENCE	- 60× (40)	XEC REGISTRATION NO.		
* Show log of genlopic materials	MOO	DV YT		a water bearing	100'	
bods and water levels in each; matters of intercet, e.g., water c	casings; so justity (cut	neens; pump; ad ahur, sait, methar	ditional pumping le). Describe rej	lests and other Dair work. Attach	801	TOM OF HOLE
See further instructions tilled "ir	structions	for New York Su	to Well Completi	an Report".	NYSE	DEC COPY
LOCATION SKETCH - Indicate a	arth					
A.	TTACI	4ED				
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1)County <u>St</u>	euben	-		7		Number	SB	726
			WELL COMP	ETION RE	PORT			
TOWNER /		11		Ladas I Forth Philad			*LOG	
	age of C	<u>AM</u>	tar	··· ·				-
15 Senti	Marin 1	Obg	c , Con	nton NY	14826	R. 130	<u> </u>	
PLOCADOLO VELL	31'29"	W	77-28'3	qu'			12	R
(0) DEPTH OF MED. 88	LOWSURFACE		(7) DEPTH TO GROUND	IN JER		1	IOP OF WEL	
8	5			<u>4'</u>			1 1	T Lock
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2"	1 5ch.4	OP	<u>'C.</u>	k	b.	Sandy		
GST L	1	a.]	۰ •	■ Î	in.	Clay		
10) SEALING	1 31	Ī	(11) CASINGS REMOVED)		2 Roy Idan		-
<u>Concrete</u>	<u>-790 5</u>							
12) MARE & MATERIAL			(I) OFEINIOS	2011				
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		e de la composition de la comp			 International 	Grey		•
(19) DURATION OF TES	T					Sand+6-		-
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(23) MAXIMUM DRAWD		and Version	uie time of suburn to assume Assume 1	i instalator consultan a	ipunying site	Brown		- /
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(M) TYPE	(25) MME	•		(20) MODEL MUM		Strekt	<u>ا</u> ا	-60!
(Z) MOTIVE POWER	(JU) MORE			(20)H.P.		Gray		
	<u> </u>					Sand		-
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(51) NUMBER OF BOW	SORSTAGES			· · · · ·	· · · · · · · · · · · · · · · · · · ·	Canl		-65'
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*Şee addilleral laste	tions on back. Se	wing of an	stagic metadate enclar	in the second	im grand		Ballan af Pa	82-+
surface, water bearing stations of interest, a	y hada and water had 9. water quality (mipi	is in each, c m, sait, an	anlage, acrosse, promp. Imme). Describe repair	unit. See Instruction	tests and other no: as to Wall		ionio 1	
Dellor's Recitization	and Research						- : -	

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	www			(4)ULU 1108	110410/01 <u>28</u>	<u>4170</u>
CI CHANGER .		WELL COMP	LETION REPO	KI		
	cal of Cons	tar _			Grand Suffree	
15 Start	Main POD	x , Coh	aton NY 1	4826	<u>= 1301</u>	f. above sea
ALCONTONIC 20	31'22" W	1770281	-37"			<u>e</u>
(DEPTH OFMELL DE	LOWSDAFACE	ODEPTH TO CROWN	MERER -	**************************************		Monitoring Well
-30		191		. .		Moody & Associates Cohocton, New York
(I) DUALETER	15ch.40 A	R	h.	•	<u>OB-6</u>	ND JOD #2035
MILENGIH	1	1	- 1	•		9
(10) SEALING	10-63'	(TO CASINGS REMOVE	<u>- 1</u>	+2.6		4" Locking Steel Protective Casing 2" PVC Sin Can
				-		
2" Sh	40 PYC	0.010"	•			Ground Surface
(H) LONE ICC.	1 · · · · ·	1	Ľ]	30		- Concrete
(15)LENGTH	1 19 10 	1	R. 1			
	IN TOP OF CASING					Native Backel
OTDATE						
L <u></u>		2	· · · · · · · · · · · · · · · · · · ·	12.0		
A) DURATION OF TES Insta	i einstes		1925. 			Bentonite Seal
(21) STANCLEVEL PRO	RTO TEST in tology in tology	(22) LEVEL DIFUNG MA	onian pularang: [15.0		
(23) MAXIMIM DRAMD	25) Appen	nizanija ikana di sebuan ini manaza Jaram 1	Liona) allor consultan of part			2" PVC Riser Pipe
المريد المعلقة موجد والمريد المرتجع		COLUMN STATE				
(29)TYPE	(25) MAKE					
(27) MOTIVE POWER	(28) MAKE		(39) H.P.	20.0		
(30) CAPACITY	gpm.spini	. <u>1</u>	î ci derte			2" PVC 0.010 Screen
(31) MUNIDER OF BOWR	S OR STAGES	·	Q _			
				30.0		Bottom Phy/Bottom
				1		
(35) METHOD OF DRILL	to the Mass Stem	(SI)USE OF WRITER	A Setter & Galery		a ing Not To Scale	
C Rotary C Cable I	ool \$1.000er <u>Augers</u>	Observa	utrari Well	/	- -	
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See additional instals	tions on back. Show log of	pologic materials encor	tionad, with depth before g	proposed		
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82-1	<u>e]</u>		
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(aditue fedinane			2
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