

**PETITION OF WOODS HILL SOLAR, LLC**

FOR A DECLARATORY RULING THAT A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED IS NOT REQUIRED FOR THE CONSTRUCTION, OPERATION AND MAINTENANCE OF A 22 MW <sub>(DC)</sub>/ 17.61 MW <sub>(AC)</sub> SOLAR PHOTOVOLTAIC PROJECT ON WOODS HILL ROAD IN POMFRET, CONNECTICUT

March 31, 2016

**Section 1 Introduction**

**Section 2 Petitioner**

**Section 3 Proposed Project**

3.1 Project History ..... 3-1  
3.2 Site Selection ..... 3-1  
3.3 Property Description ..... 3-2  
3.4 Project Description ..... 3-3  
3.5 Electrical Interconnection ..... 3-5

**Section 4 Project Benefits**

**Section 5 Local Input and Public Notice**

**Section 6 Potential Environmental Effects**

6.1 Natural Environment and Ecological Benefits ..... 6-1  
6.2 Public Health and Safety..... 6-2  
6.3 Air Quality ..... 6-3  
6.4 Scenic Values ..... 6-3  
6.5 Federal Aviation Administration Determination..... 6-4  
6.6 Historic Resources ..... 6-4  
6.7 Wildlife and Habitat ..... 6-4  
6.8 Water Quality ..... 6-5  
    6.8.1 Wetlands..... 6-6  
    6.8.2 Stormwater ..... 6-6

**Section 7 Conclusion**



**Exhibits**

Exhibit A: RES Company Background/ Resumes

Exhibit B: Figures

Exhibit C: Site Plans

Exhibit D: Construction Schedule/ Duration

Exhibit E: Decommissioning Plan

Exhibit F: Public Information Session Information

Exhibit G: Abutting Property Owner List and Notice

Exhibit H: List of Municipal Officials and Government Agencies

Exhibit I: Operations & Maintenance Plan

Exhibit J: Photo Simulations

Exhibit K: SHPO Correspondence

Exhibit L: Environmental Assessment

Exhibit M: DEEP NDDB Correspondence

Exhibit N: Stormwater Management Report

Exhibit O: Noise Study

Exhibit P: FAA Notice of Proposed Construction

Exhibit Q: Carbon Debt Analysis

Exhibit R: Phase 1 Environmental Site Assessment Reports

---

## List of Acronyms and Definitions

AC	Alternating Current
BDP	Best Development Practices
CECPN	Certificate of Environmental Compatibility and Public Need
CGS	Connecticut General Statutes
COC	Contaminants of Concern
DC	Direct Current
DEEP	Department of Energy and Environmental Protection
FAA	Federal Aviation Administration
FERC	Federal Energy Regulatory Commission
GCN	Great Conservation Need
ISO-NE	ISO New England
IWWC	Inland Wetlands and Watercourse Commission
NDDDB	Natural Diversity Data Base
NLEB	Northern Long-Eared Bat
O&M	Operation and Maintenance
PVP	Potential Vernal Pool
RES	Renewable Energy Systems Americas, Inc.
SHPO	State Historic Preservation Office
WAP	Wildlife Action Plan

## **Section 1**

### **Introduction**

Tighe & Bond has prepared this petition on behalf of Woods Hill Solar, LLC (Petitioner) for the proposed installation of a 22 MW (DC) / 17.61 MW (AC) solar ground-mounted solar photovoltaic system in the Town of Pomfret, Connecticut (the "Project"). The Project is proposed to be located at 90 Woods Hill Road and 101 Woods Hill Road ("Site"). Combined, the two parcels encompass approximately 228 acres. As proposed, the limit of work of the proposed project will occupy approximately 102 acres of the 228-acre project Site (42.78 acres of Parcel A and 59.67 acres of Parcel B). See Exhibit L (Environmental Assessment) for figures and photographs depicting the location of the Site and surrounding area.

Pursuant to Section 16-50k(a) and Section 4-176(a) of the Connecticut General Statutes ("CGS") and Section 16-50j-38 *et seq.* of the Regulations of Connecticut State Agencies ("RCSA"), Woods Hill Solar, LLC ("Petitioner") hereby petitions the Connecticut Siting Council (the "Siting Council") for a declaratory ruling that a Certificate of Environmental Compatibility and Public Need ("CECPN") is not required for the construction, operation and maintenance of a ground-mounted solar photovoltaic ("PV") facility of approximately 17.61 MW (AC) to be constructed in the Town of Pomfret, Connecticut (the "Project").

CGS § 16-50k(a) provides, in relevant part:

*Notwithstanding the provisions of this chapter or title 16A, the council shall, in the exercise of its jurisdiction over the siting of generating facilities, approve by declaratory ruling ... the construction or location of any ... grid-side distributed resources project or facility with a capacity of not more than sixty-five megawatts, as long as such project meets air and water quality standards of the Department of Environmental Protection ...*

As described more fully below, the construction, operation and maintenance of the proposed Project satisfies the criteria of CGS § 16-50k(a) and will not have a substantial adverse environmental effect.

## Section 2

### Petitioner

Woods Hill Solar, LLC is a Delaware Limited Liability Company with an office at 11101 West 120<sup>th</sup> Avenue, Broomfield, Colorado, 80021 and a local office at 455 Boston Post Road, Suite 206, Old Saybrook, CT 06475. Woods Hill Solar, LLC was organized in 2016 for the purposes of developing, constructing and operating a 17.61 MW (AC) solar photovoltaic project in the Town of Pomfret, Connecticut. Woods Hill Solar, LLC is a subsidiary of Renewable Energy Systems Americas Inc. (“RES Americas”) or (“RES”). As one of the top renewable energy companies in North America, RES Americas provides services in development, engineering, construction, and operations in the large-scale wind, solar, transmission, and energy storage industries. RES Americas has been constructing renewable energy projects in the U.S. since 1997, and is affiliated with the Sir Robert McAlpine group, a family-owned firm based in the U.K. with over 145 years of experience in construction and engineering.

RES Americas’ and their affiliates’ construction portfolio includes over 8,000 MW of utility-scale wind, solar and energy storage projects.

See Exhibit A for RES Americas Company Background and resumes.

Correspondence and/or communications regarding this petition should be addressed to:

Daniel Boyd  
RES America Developments, Inc.  
455 Boston Post Road, Suite 206  
Old Saybrook, CT 06475  
(860) 287-5389 (mobile)  
(631) 651-6515 (office)  
Dan.Boyd@res-americas.com (email)

A copy of all such correspondence or communications should also be sent to the Petitioner's attorney:

Lee D. Hoffman, Esq.  
Pullman & Comley, LLC  
90 State House Square  
Hartford, CT 06103-3702  
(860) 424-4315 (office)  
(860) 424-4370 (fax)  
lhoffman@pullcom.com (email)

## **Section 3**

# **Proposed Project**

### **3.1 Project History**

RES has been developing solar projects in Connecticut since June 2014 and is focused on identifying sites with minimal impacts. The 17.61 MW (AC) Woods Hill Solar Project site was identified due to the minimal amount of necessary clearing and close proximity to Eversource infrastructure. It will be built on approximately 102 acres of privately-owned land in Pomfret, Connecticut (Windham County). The Woods Hill Solar Project site consists of undeveloped rural land that is currently farmed for hay and corn and some wooded areas. RES has worked with the landowners on the project since 2014 and has secured the land through an Option to Purchase for Parcel A and an Option to Lease for Parcel B as outlined in Figure 1 in [Exhibit B](#).

### **3.2 Site Selection**

The site selection for the Project was based on a detailed evaluation of the following factors:

- Site suitability (solar resource size, grade and surrounding topography)
- Site availability (ability to lease or purchase land)
- Proximity to critical infrastructure (suitable electrical grid access)
- Ability to minimize environmental impacts

RES evaluated a number of sites in Connecticut. Once the initial evaluation was completed, a preferred site was selected by the Petitioner for development and preliminary due diligence work was initiated. The selected Site consists of two separate and abutting parcels (Parcel A and Parcel B) located near the terminus of Woods Hill Road in Pomfret, Connecticut. Parcel A (approximately 115 acres) is located to the south/ east of the terminus of Woods Hill Road. Parcel B (approximately 113 acres) is located to the north/ west of Woods Hill Road. The total Site area is approximately 228 acres. As proposed, the limit of work of the proposed project will occupy approximately 102 acres of the 228-acre project Site (42.78 acres of Parcel A and 59.67 acres of Parcel B).

The Petitioner retained Tighe & Bond, a full service engineering and environmental consulting firm, to perform a preliminary due diligence investigation for the site. Tighe & Bond conducted a comprehensive wetlands delineation at the site. Davison Environmental, LLC was retained to conduct a wildlife habitat assessment of the two parcels. Consultation has commenced with the CT Department of Energy and Environmental Protection (DEEP) Natural Diversity Database Program (NDDDB) and the CT State Historic Preservation Office (SHPO) data to determine the potential presence of state-listed rare species and cultural or archaeological resources, respectively. It should be noted that while the system size and project schedule have changed since the December 2015 submittal to the SHPO, the project footprint has remained the same. A Phase 1A Cultural Resources Assessment will be conducted at the site in compliance with the CT SHPO Environmental Review Primer for Connecticut's Archaeological Resources. If required, a Phase 1 B intensive/ locational survey will be

conducted at the site. The Phase 1B completion report will be submitted to the SHPO for review. See [Exhibit K](#) for SHPO correspondence received to date. The Phase 1A and Phase 1B completion report will be submitted to the Siting Council upon completion.

Through these investigations, the Petitioner is aware that jurisdictional wetlands are located in the northwest portion of Parcel B, and in the south-central portion of Parcel A. Additionally, according to available GIS data, the northeastern portion of Parcel B (outside the limit of work) is located within the limits of a mapped Natural Diversity Data Base Area (NDDDB area). Tracts of Prime Farmland and Statewide Important Farmland are located in the eastern portion of Parcel B and the northern portion of Parcel A.

No wetlands or watercourses will be directly impacted by the Project. Activities associated with the project will occur a minimum of 75 feet from wetlands or watercourses.

The hayfield portions of the project area have the potential to support several rare grassland birds. In order to minimize direct impacts to wildlife species, a series of mitigation measures are proposed as outlined in Section 6.7 and further presented in [Exhibit L](#).

Two potential vernal pools (PVP's) were identified within the limits of Parcel A. However, the nearest project activity to these PVPs is between 1,000 feet and 1,400 feet. An early Spring 2016 vernal pool survey will be completed for these two PVPs. Results of the Spring 2016 vernal pool survey will be submitted to the Siting Council upon completion.

No work is proposed within the limits of mapped NDDDB polygons. Based on NDDDB's February 2, 2016 correspondence (Exhibit N), there may be time of year restrictions between May and August associated with listed bat species. The Frosted elfin butterfly is associated with two plant species: wild blue lupine (*Lupinus perennis*) and wild indigo (*Baptisia tinctoria*). A survey will be completed by a biologist to determine if these favored plants will be impacted by the project. A report summarizing the survey results will be submitted to the Siting Council upon completion and will include habitat descriptions, host plant locations, and mitigation measures to protect this species and their associated habitat.

To address the federally-listed NLEB, NDDDB was contacted via email to confirm if NLEB habitat data is available. If information is not available, the Petitioner will document attempt to find the information and move forward with the project. Generally, however, the Petitioner will avoid tree removal activities between June 1 and July 31.

Allowing for the potential regulatory constraints known at this time and associated setbacks imposed by resource areas and Town of Pomfret zoning regulations, a preliminary system of approximately 17.61 MW (AC) is proposed at the site.

### 3.3 Property Description

The Project is proposed to be located at 90 Woods Hill Road and 101 Woods Hill Road ("Site"). Throughout this Petition, 90 Woods Hill Road is referred to as Parcel B and 101 Woods Hill Road is referred to as Parcel A. Parcel B is located to the northwest of the terminus of Woods Hill Road and Parcel A is located to the southeast of the

terminus of Woods Hill Road. The total Site area is approximately 228 acres. The parcels are identified in Town of Pomfret Tax Assessor records as:

- 90 Woods Hill Road (Parcel A) - Map 43, Block A, Lot 4 (115 acres) located within a Commercial Business (CB) Zone
- 101 Woods Hill Road (Parcel B) - Map 43, Block A, Lot 5 (113 acres) located within the CB Zone and the Rural Residential (RR) Zone.

The Petitioner has entered into an Option to Purchase Parcel A (owned by Cristina Juanita and Sheila Nabozny) and an Option to Lease Parcel B (owned by Tyler Charles).

The Site consists of cleared agricultural land with frontage off of Woods Hill Road. Currently, the Property is utilized for agricultural uses (hay and corn fields and wooded areas). The Site does not house any structures. Land uses adjacent to the Site and within the immediate locale are predominantly agricultural and wooded open space. Several residences are located to the south of the proposed Site. Stone walls traverse portions of the agricultural land on both parcels. The Site is located just north of the municipal boundary between Pomfret and Brooklyn, Connecticut. Wooded areas surround the agricultural fields on both parcels. A large Eversource transmission line and right of way traverse Parcel A to the east of the cleared portion. The Quinebag River is located approximately 1,200 feet to the east of the agricultural land on Parcel A. White Brook is located west of Parcel B.

On Parcel A, site topography in the area proposed for development slopes down generally north to south and north to east from a height of approximately 380 feet to 310 feet North American Vertical Datum of 1988 (NAVD88). On Parcel B, site topography in the area proposed for development slopes down generally east to west from a height of approximately 386 feet to 270 feet NAVD88. See [Exhibit C](#) for topography of the project area.

The proposed work is located greater than 2,000 feet from the Quinebag River. No floodplain exists within the limits of the subject parcels. The Site contains inland wetlands and watercourses. Based on a review of GIS data, a portion of Parcel B includes rare species habitat mapped pursuant to the Natural Diversity Database program. Existing access to the Site is provided from Woods Hill Road.

### 3.4 Project Description

The proposed solar facility will include the following:

- Approximately 69,882 315 watt solar PV modules (4 x 5 landscape layout)
- Driven metal post foundation system. Racks will run east-west and will be mounted facing south at a fixed 25 degree angle to ground surface. The rows of racks will be spaced approximately 16 feet apart.
- Construction of new 12'-wide gravel access roads
- Installation of 10 reinforced concrete electrical equipment pads (32' x 48') to support inverters, switchgear and a transformer
- Selective vegetation clearing on both parcels
- Vegetation screening is proposed at two locations along Woods Hill Road and a third location is proposed within Parcel A

- Underground conduits will convey power from the equipment pads to the interconnect location.

The development footprint associated with the Project, including the associated vegetation clearing, includes a total of 102 acres. To facilitate the installation of the solar arrays, associated equipment, and access, and to minimize shading of the arrays, approximately 16 acres of upland forest requires clearing and minor grading.

The solar modules will be erected using a driven metal post foundation system. The racks will be installed approximately 16 feet apart. As shown in [Exhibit L](#), portions of the proposed limit of work will be located 75 feet from delineated inland wetlands. The racks will run east-west and will be mounted facing south at a fixed 25 degree angle to ground surface.

Approximately 10 reinforced and fenced concrete electrical equipment pads (32' x 48') will support the electrical equipment. In addition to the inverters noted above, the electrical equipment pads will also contain switchgear and a transformer that will step-up the power prior to interconnecting with Eversource's local distribution circuit.

The arrays on each parcel will be accessed via new 12-foot wide access roads. The access road entrance to each parcel is on Woods Hill Road. The proposed access road will be comprised of approximately 6 inches of dense graded crushed stone or clean, uncoated aggregate base course (ABC) (per CT DEEP standards) placed above existing grades. Minor grading may be required along the proposed access road in select locations based on topography.

The project also consists of 16 acres of select removal and clearing of existing vegetation to minimize shade impacts. Portions of this work will occur approximately 75 to 100 feet from delineated inland wetlands. Erosion and sedimentation controls will be installed around the project site prior to vegetation removal. The vegetation will be cut and stumps will remain outside of the array area. Stumps within the array area will be removed. All cut vegetation will be chipped on-site and either removed and disposed, or left in place to further stabilize the site. The ground beneath the solar arrays will be planted with fescue species. The aisles will be planted with a low-growing solar array mix.

Vegetation screening is proposed at two locations along Woods Hill Road on Parcel B and a third location is proposed within Parcel A.

Select stone walls within the project area will be removed as part of the clearing and site preparation process. Stone walls outside of the project limit, including those demarcating property boundaries, will be maintained to the fullest extent practicable.

Woods Hill Solar, LLC and/or its authorized subcontractors will perform site maintenance to ensure safety and prevent shading impacts. Mowing of the grass between the rows of racks will occur as needed but estimated at twice per year. No herbicides or chemicals will be used to manage vegetation. An Operations and Maintenance Plan is provided in [Exhibit I](#).

The Project is expected to produce approximately 33,190,000 Kilowatt-Hours (kWh) of energy in the first year of operation. The Project will have a design life of 25 years and efficiency loss of approximately 0.5% per year.



The total estimated cost of the Project includes:

- Materials and equipment costs (approximate): \$15MM
- Project construction labor costs (approximate): \$17MM
- Other business costs and overhead (approximate): \$3MM

Construction of the Project is expected to begin in the third quarter of 2016 with mobilization of equipment and land clearing efforts. Further site work and land preparation is expected to be completed by late Fall 2016 with construction and installation efforts for the array equipment completed at the end of Fall 2016. Final site stabilization, testing, and commissioning is expected to be completed by late 2016. See [Exhibit D](#) for the Construction Schedule.

Temporary construction measures will include installation of a 6" gravel construction entrance and a siltation fence for erosion control.

At the end of design life of the Project, all equipment (e.g. racking system, panels, inverters, electrical collection system, etc.) will be removed in accordance with the Decommissioning Plan. See [Exhibit E](#).

### 3.5 Electrical Interconnection

The system will include integrated combiner and disconnect switches, and the panel wiring feeds into these switches. From the combiner box, energy will be transmitted to inverters. The subsurface conduit will convey power from the solar array to the interconnection point located along Woods Hill Road, to be determined by Eversource. A distribution interconnection request was filed with Eversource in February 2015. The point of interconnection will be located at the Tracy Road substation five miles northeast of the project site. The impact study was completed in September 2015. The facility study is anticipated to be completed in April 2016.

Approximately 10 reinforced concrete electrical equipment pads (32' x 48') will support the electrical equipment as shown in [Exhibit B](#). In addition to the inverters noted above, the electrical equipment pads will also contain switchgear and a transformer that will step-up the power prior to interconnecting with Eversource's local distribution circuit. Underground conduits will convey power from the equipment pads to the interconnect location. An emergency system cut-off switch will be installed in a location designated by Eversource.

The interconnection facility design and construction will be performed in accordance with the Eversource Guidelines for Generator Interconnection and State of Connecticut and ISO-New England ("ISO-NE") requirements. As part of the interconnection process, the Petitioner has successfully completed a utility sponsored Scoping Meeting, Application Request and an Application Review, Feasibility Study, System Impact Study, and is now completing Facilities and Transmission studies with Eversource.

## **Section 4**

### **Project Benefits**

A public benefit exists if a project "is necessary for the reliability of the electric power supply of the state or for a competitive market for electricity." CGS § 16-50p(c)(1). The Project is anticipated to generate much of its power at peak times, when the demand for electricity is greatest, and will thereby provide the electrical system with flexible peaking capacity that is necessary to keep the electrical grid stable.

Further, the Project supports the State's energy policies as set forth in CGS §16a-35k, including the goal to "develop and utilize renewable energy resources, such as solar and wind energy, to the maximum practicable extent." The Project will provide clean, renewable, solar-powered electricity and assist the State in meeting its legislatively mandated obligations under the Renewable Portfolio Standard.

The Project will also assist the State of Connecticut in reducing greenhouse gas emissions and reducing criteria air emissions pollutants associated with the displacement of older, less efficient, fossil fuel generation. As part of larger state, national and global strategies, reductions in greenhouse gas emissions from this Project will have long-term secondary biological, social and economic benefits. The Project will also hire local labor, as practical, and be a source of increased revenue for local businesses during construction, and will generate tax revenue for the Town of Pomfret.

## **Section 5**

# **Local Input and Public Notice**

Throughout the process, the Petitioner has kept officials from the Towns of Pomfret and neighboring communities apprised of the Project's progress. The Petitioner is committed to continuing to solicit input from Town Officials, other relevant agencies and from the general public in an effort to develop a project that results in the most public benefit with the least environmental impact. The Petitioner will work with Town officials and the local community by pursuing a multi-faceted and inclusive public outreach effort.

RES and its local representatives have met with the Town of Pomfret since 2014 with respect to the project. In addition, RES conducted a public information meeting at the Town of Pomfret's Senior Center at 7:00 pm on March 8, 2016 to provide information and to answer questions or concerns. In support of this meeting, the meeting was advertised in the Norwich Bulletin, a local radio station (WINY) and on the Town of Pomfret's website.

See [Exhibit G](#) for public information session materials and sign-in sheets.

In addition, because of the Project's proximity to their borders, on June 8, 2015 and March 30, 2016, respectively, the Petitioner also conducted outreach with officials from the Towns of Brooklyn and Killingly to discuss the Project.

As required by RCSA § 16-50j-40(a), the Petitioner also provided notice of its intent to file this petition to: (a) those adjacent property owners listed on [Exhibit G](#) and (b) the municipal officials and government agencies listed on [Exhibit H](#). In addition, the Petitioner provided a copy of the petition to the Towns of Pomfret, Brooklyn and Killingly. A copy of the Petition was also provided to the Site owners (Juanita Cristina and Sheila Nabozny; Charles Tyler).

## **Section 6**

# **Potential Environmental Effects**

The Petitioner and its consultant, Tighe & Bond, conducted a comprehensive environmental impact assessment of the Project. As part of this process, relevant agencies were consulted, Project facilities were overlaid onto the Site and photo simulations were produced, environmental impacts were evaluated and mitigation was applied as appropriate. By March 2016, the public was informed and the Town had played an active role in the design of a project that will produce the maximum amount of energy on the land available while avoiding, reducing and mitigating potential environmental impact to the extent possible.

### **6.1 Natural Environment and Ecological Benefits**

Historical aerial photographs indicate that the majority of the Project Area appears to have been agricultural fields consistently from 1970 until the present, and remnant field stone walls can still be seen in many areas of the Site. Select stone walls and piles within the fence line area will be removed as part of the clearing and site preparation process. See Section 6.5.

The solar array layout will utilize existing grades to minimize the required amount of earth work. Some soil disturbance will be required to install foundations for the PV panels and associated equipment. There may also be some limited grading required for installation of the main access road as well as the perimeter road. Racking will follow existing grade in nearly all cases, with little to no grading occurring for installation and only minor surface finish grading. Panel foundations will be secured using ground screw or driven pile technology. All racking will be designed to meet applicable local building codes for wind and snow loads.

No hazardous substances will be used or stored on Site during construction or operation of the Project. Phase 1 Environmental Site Assessments (ESA) were conducted by Tighe & Bond for each parcel to determine the potential for any existing environmental or hazardous materials conditions. The Phase 1 ESA reports concluded that both parcels contain potential Contaminants of Concern (CPC) including pesticides and herbicides based on past agricultural use. Additionally, the *de minimus* environmental condition identified included presence of minor amounts of miscellaneous amounts of solid waste (wood, plastic and metal). At the 101 Woods Hill Road parcel, the potential application of herbicides within the Eversource transmission line ROW was noted. The Phase 1 ESA Reports can be found in [Exhibit R](#).

In order to allow for the installation of the Project and avoid or minimize shading on the PV panels, select tree removal will be required. Approximately 16 acres of wooded area is proposed to be converted to grass/ meadow area, to minimize shading impacts.

The project has been designed to minimize impacts to jurisdictional wetlands. As noted on the Site Plans in [Exhibit C](#) and in more detail in [Exhibit L](#), no wetland impacts are anticipated as part of the project. The limit of the work will be located at least 75 feet from all delineated wetlands. A comprehensive Wetlands Protection Plan is provided in [Exhibit L](#).

## 6.2 Public Health and Safety

Overall, the Project will meet or exceed applicable industry, state, and local codes and standards and would not pose a safety concern or create undue hazard to the general public. The facility would not consume any raw materials, would not produce any by-products and would be unstaffed during normal operating conditions. There are no plans to store fuels or hazardous materials at the facility.

Overall, the Project will meet or exceed all health and safety requirements applicable to electric power generation. Each employee working on Site will:

- Receive required general and Site specific health and safety training
- Comply with all health and safety controls as directed by local and state requirements
- Understand and employ the Site health and safety plan while on the Site
- Know the location of local emergency care facilities, travel times, ingress and egress routes; and
- Report all unsafe conditions to the construction manager.

During construction, heavy equipment will be required to access the Site during normal working hours, and it is anticipated that approximately 400 – 600 trips will be made by vehicles (average size light-duty and delivery) onto the Site during the construction of the project. After construction is complete and during operation, minimal traffic is anticipated. For standard operations and maintenance activities, on average, one to two light-duty vehicles will visit the Site on a monthly recurring basis. There will not be permanent staff present at the Site. See [Exhibit I](#).

Because the solar modules are designed to absorb incoming solar radiation and minimize reflectivity, only a small percentage of incidental light will be reflected off the panels. This incidental light is significantly less reflective than common building materials, such as steel, or the surface of smooth water. In addition, a majority of the Project will be shielded from view due to existing vegetation, proposed screening vegetation and topographical conditions. The panels will be tilted up toward the southern sky at an approximate angle of 25 degrees, further reducing reflectivity.

The Project will not produce significant noise during operation. The only equipment proposed for the Project that would generate noise consists of the inverters, which are inactive at night. The closest inverter to a property line is approximately 100 feet. After the Project is constructed and in service, the noise levels at the nearest offsite residence are anticipated to be a maximum of 44 dBA during operations which is during the daylight house and significantly lower during non-daylight hours. This is well below the most conservative criteria of 45 dBA for nighttime and 55 dBA for daytime, as established by the State of Connecticut Noise Control regulations (CGS 22a/22a-69-1 through 7). See [Exhibit O](#).

During the construction of the Project higher levels of noise are anticipated; however, all work will be conducted during normal working hours and it is not anticipated that the levels of noise will exceed State or local noise standards or limits.

Prior to operation, the Petitioner will meet with Town first responders to provide them information regarding response to emergencies at PV facilities and provide a tour of the Project.

### 6.3 Air Quality

Overall, the Project will have minor emissions of regulated air pollutants and greenhouse gases during construction and no air permit will be required. During construction of the Project, any air emission effects will be temporary and will be controlled by enacting appropriate mitigation measures (e.g., water for dust control, avoid mass early morning vehicle startups, etc.). Accordingly, any potential air effects as a result of the Project construction activities will be *de minimus*.

During operation, the Project will not produce air emissions of regulated air pollutants or greenhouse gases (e.g., PM10, PM2.5, VOCs, GHG or Ozone). Thus, no air permit will be required. Moreover, per the Environmental Protection Agency Greenhouse Gas Equivalencies Calculator (EPA.gov), a 20 MW solar project is equivalent to a reduction in 25.8 metric tons of CO<sub>2</sub>, which is equal to taking 4.9 vehicles off the road for one year and the amount of carbon sequestered by 19 acres of U.S. forests in one year. See [Exhibit Q](#).

### 6.4 Scenic Values

The Petitioner conducted a preliminary viewshed analysis during Site visits and by using aerial and topographic mapping in November 2015, which identified a substantial amount of natural screening in the area, primarily in the form of heavily forested land to the east and southeast, southwest, north, and northwest of the project area. As shown in Figure 5 in [Exhibit L](#), in almost all instances, there is existing forest cover between the Site and potential observation points. Furthermore, no public hiking paths or other potential public non-vehicular trails were found to be present in the area that would serve as potential observation points.

To verify the potential visibility of the Project, Tighe & Bond produced visual renderings, using existing site photos in tandem with AutoDesk 3D Studio and Adobe Photoshop, from various locations along Woods Hill Road. See [Exhibit J](#). In preparing the renderings, existing site photos were imported into the model and matched to AutoDesk 3D Studio's camera by loading a digital picture and calibrating the AutoDesk camera to the position and focal length of the camera used to take the actual photo. Solar arrays and landscape buffering depicted in the Site plans were modeled to represent actual dimensions and scales. Once modeling was complete, images were created and enhanced with Adobe Photoshop to create the final renderings.

As those visual renderings demonstrate, the proposed Project will not have a substantial adverse visual effect on residences or passersby in the foreground viewing threshold (up to 300-feet from the Property line) because the immediate foreground threshold views into the Site are limited due to existing vegetative screening as well as site topography. The use of low profile Project components (e.g., racking system, panels, inverters, etc.) that generally are not taller than 7 feet also significantly reduces the potential visual impact of the Project. Although the electrical interconnection poles will be visible, they are similar in character to existing distribution lines already located along the same stretch of Woods Hill Road.

## 6.5 Federal Aviation Administration Determination

Due to the proximity of the site to Danielson Airport, Tighe & Bond filed a "Notice of Proposed Construction or Alteration" with the Federal Aviation Administration (FAA) on March 22, 2016. See [Exhibit P](#). Tighe & Bond will keep the Council promptly informed of any further developments regarding the FAA.

## 6.6 Historic Resources

Based on project information submitted to the Connecticut State Historic Preservation Office (SHPO) in December 2015 for review, the SHPO requested that a professional cultural resources assessment and reconnaissance survey be completed prior to construction. In correspondence dated January 21, 2016 ([Exhibit K](#)), the SHPO indicated that portions of the intact and relatively well-drained soils within the project area ("Area of Potential Effect") have an elevated potential to contain significant archaeological resources. The SHPO acknowledged that farming may have compromised the integrity of any archeological deposits, but this should be confirmed by subsurface examination.

A Phase 1A Cultural Resources Assessment will be conducted at the site in compliance with the CT SHPO Environmental Review Primer for Connecticut's Archaeological Resources. Subsurface testing will assess areas of anticipated ground disturbance that are considered to have a moderate/ high sensitivity for containing significant archeological deposits, unless sufficient research or fieldwork documents that this level of effort is unwarranted. No construction or other project-related ground disturbance will be initiated until SHPO has had an opportunity to review and comment on the requested survey. The survey will also take into consideration potential view shed impacts on structures older than fifty years that are listed on or may be eligible for listing on the National Register of Historic Places.

The objectives of the study will be: 1) to determine whether or not the proposed project parcel, or portions thereof, possess no, low, and/or moderate to high potential to produce intact cultural deposits and/or surficial expressions of cultural resources, 2) to submit the findings and recommendations of the study to the CT SHPO for comment and review, and 3) to determine if subsequent Phase 1B Cultural Resources Reconnaissance Survey of the entire project area or portions of the project parcel is warranted.

If required, a Phase 1B intensive/ locational survey will be conducted at the site. The Phase 1B completion report will also be submitted to the SHPO for review.

While it is not feasible from a design, access, maintenance and safety perspective to maintain stone walls and piles within the project limits, stone walls and piles outside of the project limits, including those demarcating property boundaries, will be maintained to the fullest extent practicable.

## 6.7 Wildlife and Habitat

A wildlife habitat assessment was conducted at the site in December 2015 by Eric Davison, Davison Environmental LLC. There was no snow cover at the time the assessment was completed. The assessment included and assessment of: wetland and upland habitat types; potential vernal pools; breeding bird inventory; and breeding bird

impact assessment. Breeding bird protection measures were also proposed. The results of the assessment are provided in [Exhibit L](#).

The hayfield portions of the project area have the potential to support several rare grassland birds. In order to minimize direct impacts to wildlife species, a series of mitigation measures are proposed as outlined in Section 6.7 and further presented in [Exhibit L](#).

Two potential vernal pools (PVPs) were identified within the limits of Parcel A. However, the nearest project activity to these PVPs is between 1,000 feet and 1,400 feet. An early Spring 2016 vernal pool survey will be completed for these two PVPs. Results of the Spring 2016 vernal pool survey will be submitted to the Siting Council upon completion.

The most recent CTDEEP NDDDB mapping (September 2015) was reviewed to determine if any such species or rare habitats occur within the vicinity of the site. Based on the NDDDB mapping, an NDDDB polygon indicating the presence of a listed species or rare habitat overlaps the northeast portion of the northern parcel. An application was submitted to the CT DEEP NDDDB program on December 10, 2015. A response from NDDDB dated February 2, 2016 indicated that the following extant populations of species are located on or within the vicinity of the site: Hoary Bat (*Lasiurus cinereus*), Red bat (*Lasiurus borealis*), Silver-haired bat (*Lasionycteris noctivagans*) and Frosted elfin butterfly (*Callophrys irus*). See [Exhibit L](#).

A survey will be completed by a biologist to determine if these favored plants will be impacted by the project. A report summarizing the survey results will be submitted to the Siting Council upon completion and will include habitat descriptions, host plant locations, and mitigation measures to protect this species and their associated habitat.

To address the federally-listed NLEB, NDDDB was contacted via email to confirm if NLEB habitat data is available. If information is not available, the Petitioner will document attempt to find the information and move forward with the project. Generally, however, the Petitioner will avoid tree removal activities between June 1 and July 31.

## 6.8 Water Quality

The Project will use no water during operations in the production of electricity. Any water utilized during the construction of the Project for dust suppression will be minimal and have no impact on the water quality in the vicinity of the Site. The Site is within Flood Zone C, designated by the Federal Emergency Management Agency ("FEMA") as an area outside of the 500-year floodplain area with a minimal risk for flooding.

Based on the CT DEEP Water Quality Classifications Map for Pomfret, CT, there are no public water supply wells proximate to the Site. The closest mapped contributing area to a public water supply is near the intersection of Woods Hill Road and Darby Road in Brooklyn, CT, south of the site. The subject parcels are not located within an Aquifer Protection Area. Thus, no impacts on water quality or supply will occur with the construction or operation of the proposed Project.



### 6.8.1 Wetlands

Tighe & Bond wetland scientists completed wetland inspections and delineations on multiple days in September 2015 (September 1, September 8, September 10, September 23 and September 25, 2015). On two mild temperature December days when there was no snow cover (December 5 and December 23, 2015), Matthew Davison, a Connecticut-registered Soil Scientist with Tighe & Bond, reviewed and confirmed wetland boundaries located within 100 feet of the proposed development at the site. Four (4) wetlands and one intermittent watercourse were delineated/ mapped within the vicinity of the project site. Those delineations were used to design the Project's physical layout in an effort to avoid wetlands features. The Soil Report is provided in [Exhibit L](#).

No wetlands or watercourses will be directly impacted by the Project. Activities associated with the project will occur a minimum of 75 feet from wetlands or watercourses. No work is proposed within the 300-foot Upland Review Area associated with White Brook or the 500-foot Upland Review Area associated with the Quinebaug River.

The Pomfret Inland Wetlands and Watercourses Commission (IWWC) requires a minimum distance of 120 feet from wetlands and perennial watercourses for "non-residential main-use buildings or structures". Work occurring within the 120-foot "minimal distance" is typically subject to review by the Pomfret IWWC. The Project understands that CSC review will address and supersede Town of Pomfret's review.

Short term, temporary impacts during construction will be minimized with sedimentation and erosion controls designed, installed and maintained in accordance with the 2002 *Connecticut Guidelines for Soil Erosion and Sediment Control*. RES has also prepared and will implement a Wetland Protection Plan during construction to provide additional measures to avoid temporary wetland impacts. See [Exhibit L](#).

Similarly, no direct impact to any vernal pool is proposed and no activity is proposed within any vernal pool envelope conservation zone (i.e., 0 to 100 feet). The nearest proposed activity to potential vernal pools is between 1,000 feet and 1,400 feet.

### 6.8.2 Stormwater

NRCS soil data was obtained through the Web Soil Survey portal on the USDA NRCS website. The areas surrounding the property were queried for soil types according to the record soil survey maps maintained by NRCS. Soil types depicted on the soils map on the subject property include Ridgebury association, Hinckley association, Woodbridge association, Canton and Charlton association, Charlton-Chatfield association, Paxton and Montauk association, Pootatuck association and Rippowam association. In addition to the NRCS Soil Data reviewed, a comprehensive test pit and boring investigation was conducted on the site in December 2015. The results of the test pits and borings are provided in [Exhibit O](#) (Appendix B of the Stormwater Report). In general, the borings and test pits confirm the NRCS soil mapping in that the site is predominantly sand with some gravel and smaller areas of silt. Bedrock depths ranged from 9 to 22 feet below existing grade.

The topography of the existing conditions site conveys stormwater runoff radially from a high point located in the central portion of the project area. The project was divided into five existing conditions subcatchments conveying stormwater runoff radially off-site. Stormwater runoff from the existing site generally flows radially to the wetland areas

surrounding the site. Each drainage area conveys stormwater runoff off-site associated with a design point so as to compare existing and proposed peak rate discharges.

Under proposed conditions, large portions of the agricultural uses will be converted to solar array where panels will be installed using driven piles or ground screws. Below and between the panels, grass will be planted and will be allowed to grow and develop into a grassy meadow. The topography of the site will not significantly change as a result of the proposed development. While the proposed installation requires that some existing vegetation be removed, the existing topography shall remain generally unchanged. Micro-grading, or the grading of existing undulations, will occur prior to installation of the solar array; however this activity will not cause substantial changes to drainage areas or stormwater flow paths on the site.

Stormwater will fall onto solar panels and will flow off the edge onto the vegetated surface and flow along existing flow paths as under existing conditions. The panels will be spaced such that stormwater runoff will be allowed to flow above the ground surface in between and under rows of panels. Therefore, the only solar panels that are considered impervious will be the most up-gradient panels in each subcatchment<sup>[1]</sup> as these panels are the only panels under which stormwater runoff will not be allowed to flow along existing topography. The remainder of the solar facility within the limit of work will be considered meadow, non-grazed. Concrete equipment pads, existing and proposed gravel access roads, woodland, remaining agricultural fields and wetland areas surfaces were also included in the post-development hydrologic analysis. Since the project will not substantially alter topography of the site, the proposed conditions drainage areas will generally match those of existing conditions. The five proposed areas will continue to discharge stormwater runoff the five associated design points previously described.

The project has been designed to attenuate peak discharge rates from the site as further described in Exhibit N.

---

<sup>[1]</sup> Cook, L.M. & McCuen, R. H., (2013). Hydrologic Response of Solar Farms. *Journal of Hydrologic Engineering*, 18(5). pp.536-541

## **Section 7 Conclusion**

The Project will provide numerous and significant benefits to the Town of Pomfret, the State of Connecticut and its citizens, and will place the Town at the forefront of green energy development while producing substantial environmental benefits with minimal environmental impact. Pursuant to CGS §16-50k(a), the Council shall approve by declaratory ruling the construction or location of a grid-side distributed resources project or facility with a capacity of not more than 65 MW, as long as such project meets DEEP air and water quality standards.

The Project is a "grid-side distributed resources" facility, as defined in CGS §16-1(a)(37), because the Project involves "the generation of electricity from a unit with a rating of not more than sixty-five megawatts that is connected to the transmission or distribution system..." and, as amply demonstrated herein, the Project will meet DEEP air and water quality standards. Further, the Project:

- Will not produce air emissions during operations (PM10, PM2.5, VOCs, GHG or Ozone);
- Will not utilize water to produce electricity or be in conflict with any Federal, State, or Local requirements related to water quality and quantity;
- Will not produce significant noise;
- Was designed to avoid wetland and biological impacts to the extent practicable;
- Will not have substantial adverse visual, land use, stormwater, recreational, cultural, human or biological impacts; and
- Will further the State's energy policy by developing and utilizing renewable energy resources.

For all the foregoing reasons, the Petitioner requests that the Siting Council issue a declaratory ruling that the proposed Project will comply with DEEP air and water quality standards, will not have a substantial adverse environmental effect and, therefore, that a CECPN is not required for the construction, operation and maintenance of the Project.

Respectfully submitted,



Woods Hill Solar, LLC

## **EXHIBIT A:**

RES Company Background/Resumes



Woods Hill Solar Project, Pomfret





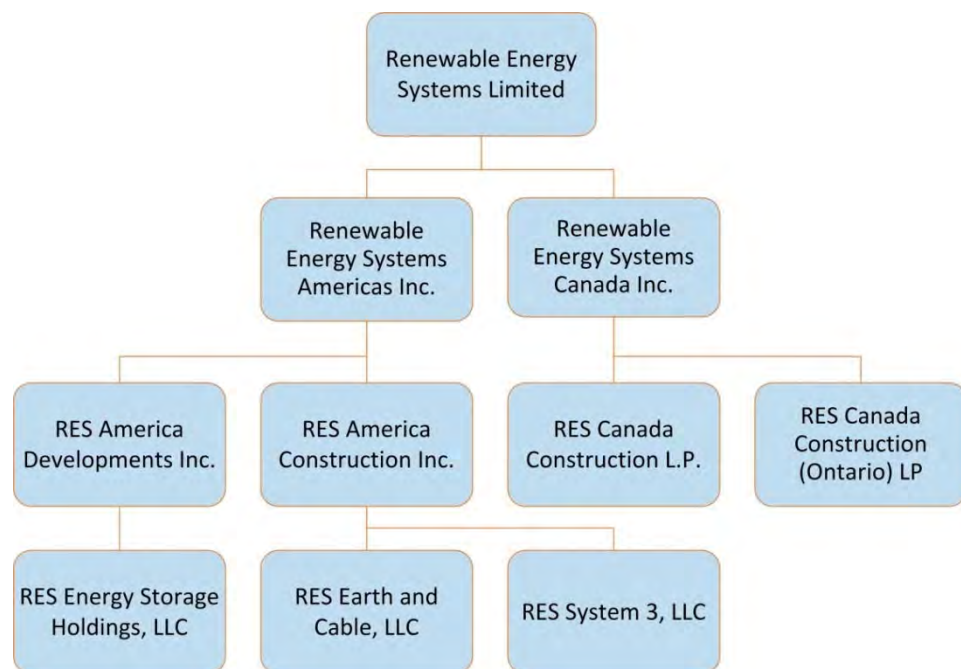
## Renewable Energy Experience

As one of the top renewable energy companies in the world, Renewable Energy Systems (RES) has been providing services in development, engineering, construction, and operations since 1982. RES has developed and/or built over 9 GW of renewable energy capacity worldwide, has an asset management portfolio exceeding 1 GW, and is active in a range of energy technologies including onshore wind, solar, energy storage, transmission, and demand side management (DSM).

RES was originally formed as part of the Sir Robert McAlpine group, a family-owned British firm with 145 years' experience in construction and engineering. The international headquarters remains in the United Kingdom with RES active in the United States since 1997, in the Canadian renewable energy market since 2003, and the Chilean market since 2010.

RES specializes in EPC and BOP/BOS construction services. We built the company's first North American wind energy project in 1999 and joined the solar energy market in 2010 with construction of our first solar farm. The company continued to expand our innovative offerings with our first energy storage project in 2014; we are now one of the energy market's leading providers of energy storage solutions. RES constructed our first major transmission line project in 2013.

## RES Organizational Structure



## RES Quick Facts

RES at a Glance	
Quick Facts	
<b>Founded</b>	<ul style="list-style-type: none"> <li>→ 1997 (U.S.)</li> <li>→ 2003 (Canada)</li> <li>→ 2010 (Chile)</li> </ul>
<b>Technologies</b>	<ul style="list-style-type: none"> <li>→ Wind</li> <li>→ Solar</li> <li>→ Transmission</li> <li>→ Energy Storage</li> <li>→ Demand Side Management</li> </ul>
<b>Services</b>	<ul style="list-style-type: none"> <li>→ Development</li> <li>→ Engineering</li> <li>→ Construction</li> <li>→ Operations</li> <li>→ Asset Management</li> </ul>
<b>Locations</b>	<ul style="list-style-type: none"> <li>→ Broomfield, CO (HQ)</li> <li>→ Austin, TX</li> <li>→ Minneapolis, MN</li> <li>→ Montreal, Quebec</li> <li>→ Oakville, Ontario</li> <li>→ Santiago, Chile</li> </ul>
<b>Employees</b>	→ >900
<b>Utility-Scale Experience</b>	
<b>Wind &amp; Solar</b>	8,500+ MW renewable energy construction portfolio, of which we have developed over 3,500 MW
<b>Transmission</b>	650+ miles: overhead & transmission lines built (up to 345 kV)
<b>Energy Storage</b>	8 MW (16 MW range) constructed 67 MW (134 MW range) under construction
<b>Projects</b>	80+ projects in the U.S., Canada, and the Caribbean





### RES Focus on Renewable Energy

RES and affiliates operate in the renewable energy market. We do not build highways, stadiums, or skyscrapers. We develop and build renewable energy projects. Members of our staff collaborate to manage all aspects of development, construction, maintenance, and technical consulting services as well as utility, municipal, and landowner engagements, as required. Our experience in utility-scale wind, solar, energy storage, and transmission line projects provides our customers with a superior partner with tremendous commitment and value.

### Stewardship of Resources

RES has adopted several new approaches to constructing renewable energy projects that preserve, improve, and restore the natural spaces surrounding each site. This is in accordance with our core principal of maintaining beneficial relationships with stakeholders and applies to the land and communities in proximity to our project sites.



Furthermore, our philosophy of sustainability – People, Planet, and Profit – guide all RES business activities. We focus on these three areas in everything we do from being socially responsible in the communities in which we work to conserving natural resources and providing quality job opportunities.

### The Value of RES Integrated Services

RES offers development, engineering, construction, and technical consulting services across diverse technologies. The company's expertise allows RES to self-perform civil works, wind turbine erection, electrical collection system installation, and high voltage substation and transmission line construction. To deliver these services, RES deploys proven field teams with an extensive background in successfully completing complex projects in diverse regions under the most challenging geophysical and climatological conditions.

The ability to offer such a wide range of services and deliver challenging projects on time and within budget is a core strength of the company. Our integrated approach:

- Allows us to be more efficient and proactive while developing projects
- Facilitates our assimilation of lessons learned across teams allowing us to implement process improvements on subsequent projects
- Expedites planning and the resolution of issues making value engineering, cost-effective construction, and successful long-term operations a reality

#### RES Sustainability

##### Mission:

To power positive change by ensuring that our operations, products, and services make a net positive contribution to society and the environment.

### RES In-House Services

RES and affiliates have dedicated professionals with the expertise to ensure our projects are engineered for maximum efficiency, transition smoothly from one phase to the next, constructed to last, and completed on time and within budget. We specialize in the following services.

#### Development



RES offers a fully integrated suite of development capabilities to ensure the success of wind, solar, energy storage, transmission, or distributed generation projects from greenfield development to operations. Our in-house expertise spans resource analysis, land acquisition, permitting, site design, engineering, procurement, and construction.

#### Engineering



RES civil, electrical, and mechanical engineering teams offer a comprehensive expertise. Coordination across teams allows RES to ensure projects are up and running quickly and functioning smoothly. RES offers clients a variety of services including geotechnical engineering, civil site work, WTG foundation, electrical collection system, HV substation, and transmission line design.

#### Construction



RES work teams possess the extraordinary skills required to self-perform construction of nearly all aspects of complex renewable energy projects including civil works, WTG tower, MV collection system, HV substation, and transmission line construction. The RES management team oversees a project from the initial budget and schedule to final testing and commissioning.

#### Operations and Maintenance



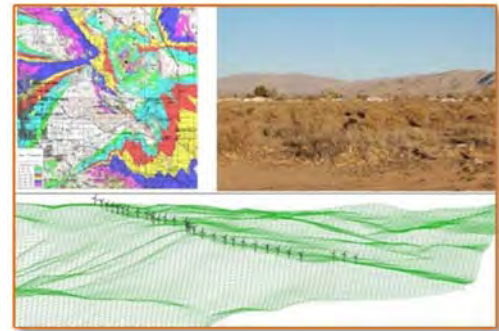


RES operations and maintenance services use fleet-wide performance monitoring as well as central engineering and design teams to maximize availability, minimize lost production, and ensure safety and environmental compliance.

### Technical and Commercial Analysis

The RES Technical and Commercial Analysis team offers client services designed to expedite construction and increase project profitability. By merging our renewable resource analysis technology with sophisticated environmental and topographical data, we enhance renewable resource predictability to improve financial leverage on construction and development projects.

For early-stage projects, RES preliminary resource assessment and data analysis facilitate development activities including met tower installation, turbine selection, layout design, and risk mitigation. For late-stage projects, RES analysis optimizes turbine layout to maximize energy production.



RES areas of technical expertise include:

- Computational Fluid Dynamics (CFD)
- Mesoscale Wind Modeling
- Microwave and Radar Communications
- Wind Farm Layout Design
- Solar Array Layout Design and Output
- Wind Data Analysis
- Sound Analysis
- In-House Software Design
- Industry Research

### RES Core Technologies

RES has constructed more than 8,000 megawatts (MW) of green energy and energy storage projects in the Americas. This total includes more than 7,800 MW of RES developed and/or constructed wind and solar energy.

Energy storage and transmission solutions support the increased adoption of green energy. RES is a leader in the energy storage market with over 75 MW in our construction portfolio. RES is also active in the transmission market having completed construction of the 214-mile Montana-Alberta Tie Line.

## Wind Resource Technology

After construction of the company's first wind farm project in 1999, RES completed 10 more wind projects by the end of 2005. In 2006, RES added three wind projects followed by five in 2007 and 10 in 2008. 14 more wind projects were completed by the end of 2010.

From 2011 through 2015 RES constructed 25 additional wind farms and has now completed construction on 68 wind energy projects contributing 10% of the electricity produced by wind power in North America. The following table includes the list of wind farms completed by RES since 2010.

RES Wind Energy Projects since 2010								
Projects	MW	EPC	Dev	BOP	Technology	Owner	Year	Location
Flat Water	60			X	GE	Gestamp and Banco Santander, SA	2010	NE and KS
Dunlap	111			X	GE SLE	PacifiCorp	2010	WY
SNEEC	4			X	REpower MN92	Technocentre eolien Gaspesie	2010	Canada
Hatchet Ridge	101		X	X	Siemens	Pattern Energy	2010	CA
Talbot	99	X	X		Siemens	Enbridge	2010	Canada
Crossroads	227		X	X	Siemens	OG&E	2011	OK
Greenwich	99	X	X		Siemens	Enbridge	2011	Canada
Blue Canyon VI	99			X	Vestas	Horizon	2011	OK
Cedar Point	250	X	X		Vestas V90	Enbridge	2011	CO
Gaines Cavern	2			X	Gamesa	TX Dispatchable Wind 1	2012	TX
NREL - Gamesa	2			X	Gamesa G97 Class IIIA	NREL	2012	CO
Mehoopany	140			X	GE	BP Wind Energy	2012	PA
Harbor	9			X	Guodian United Pwr	Revolution Energy	2012	TX
Twin Ridges	140			X	REpower MM 92	Everpower	2012	PA
Lower Snake River	343		X	X	Siemens	Puget Sound Energy	2012	WA
Wildcat	27			X	Suzlon S97	Exelon	2012	NM
Brooke-Alvinston	10			X	Samsung	One World Energy	2012	Canada
Halkirk 1	150			X	Vestas V90	Capital Power	2012	Canada
Buffalo Dunes	250			X	GE	Tradewind	2013	KS
South Kent	270			X	Siemens	SRE SKW EPC L.P.	2014	Canada
Origin	150		X	X	Vestas	Enel Green Power	2014	OK
Tucannon River	267		X	X	Siemens	PGE	2014	WA
Keechi	110		X	X	Vestas	Enbridge	2015	TX
Longhorn	200		X	X	Vestas	EDF	2015	TX
Pleasant Valley	200		X	X	Vestas	Xcel Energy	2015	MN

## Exhibit A: Company Background & Resumes

Border Winds	150		X	X	Vestas	Xcel Energy	2015	ND
Goodwell	200			X	Vestas V100 and V110	Enel Green Power	2015	OK
Grand Valley 3	39.7			X	Siemens	Grand Valley 2 Limited Partnership	2015	Canada
Little Elk	74			X	Vestas V110	Enel Green Power	2015	OK
Arbuckle Mountain (Rose Rock) Wind*	100			X	Vestas V110	Arbuckle Mountain Wind Farm LLC	2016	OK

\* Under Construction

### Solar Construction Services

RES and our affiliates are experienced in engineering and building over 150 MW of solar energy projects across North America. In 2012, RES was the balance of plant contractor for the 30 MW Webberville Solar project in Travis County, Texas providing construction, commissioning, and operations services until the transfer of ownership to SunEdison. In 2014, we completed construction of the 41 MW Alamo I Solar Project located in Bexar County, Texas. In 2015 RES was selected to construct the largest solar project east of the Rockies, the 156 MW Comanche Solar project, the project is currently in construction.

The table below provides an overview of the RES solar projects in the United States and Canada.

#### RES Solar Projects

Project Name	Megawatts (AC/DC)	Location	Completion Date
Webberville	30 / 35	Austin, Texas	2011
Rutley	10 / 12	Ingleside, Ontario	2012
Norfolk 1	10 / 12	Simcoe, Ontario	2013
Demorestville	10 / 14	Picton, Ontario	2014
Taylor Kidd	10 / 14	Kingston, Ontario	2014
Mighty Solar	10 / 14	Chesterville, Ontario	2014
Newboro I	10 / 18	Crosby, Ontario	2014
Newboro IV	10 / 18	Newboro, Ontario	2014
Alamo 1	41	San Antonio, Texas	2014
GoldLight	10 / 18	Pefferlaw, Ontario	2015

"We found RES' experience to be very helpful in identifying potential issues early on, and finding ways to resolve them. They are a very competent contractor."

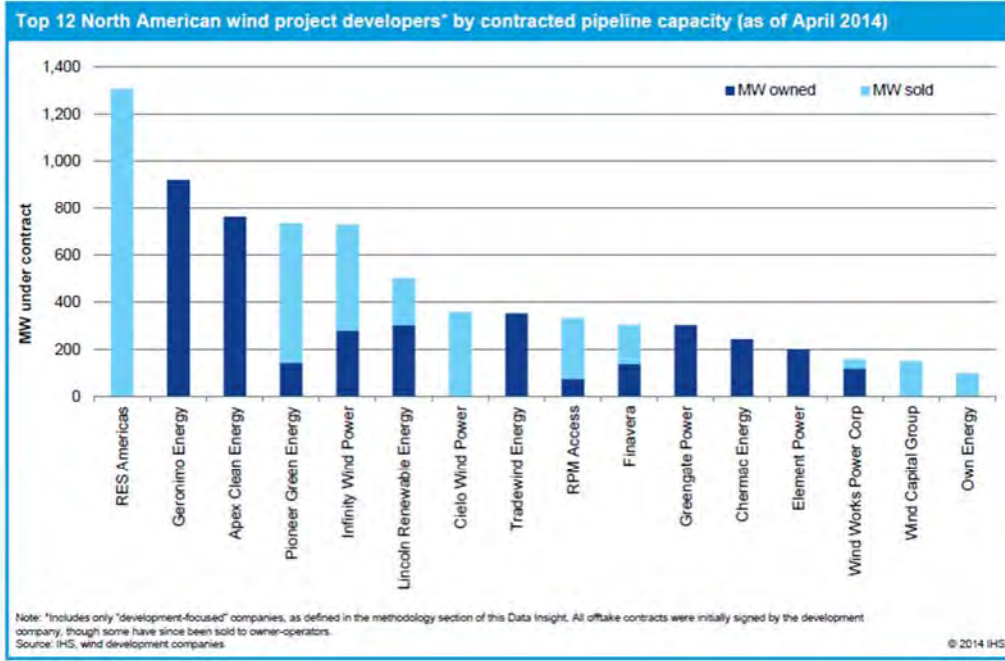
**Mike Garland**  
President & CEO  
Pattern Energy



## Top North American Developer

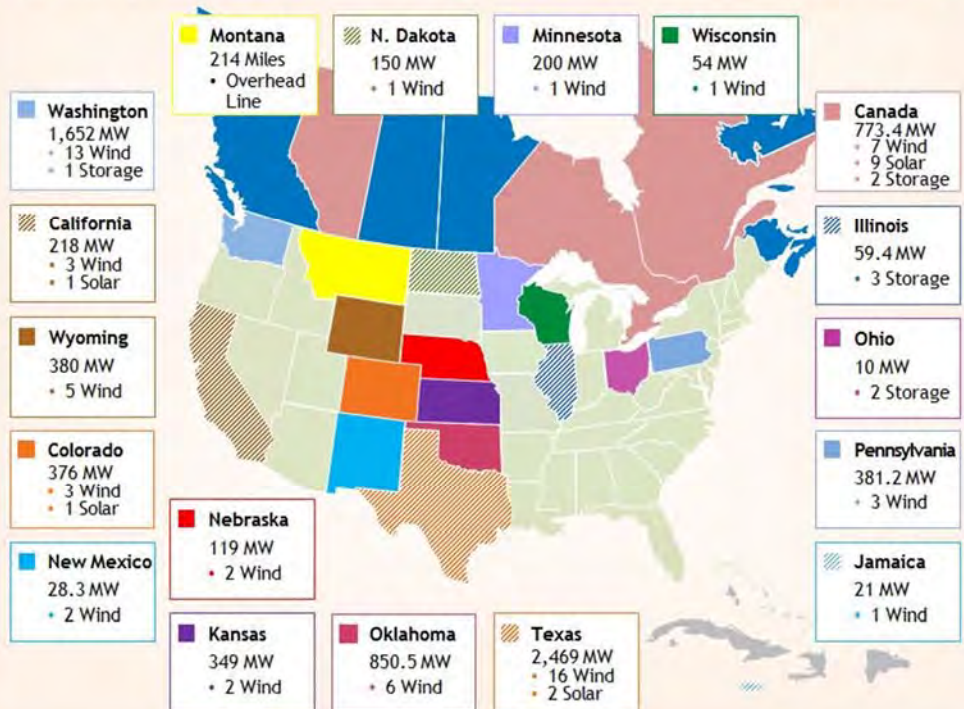
RES is proud to be ranked the top Development company in North America by IHS Inc., an industry-standard and analytics organization.

Developer ranking by capacity contracted

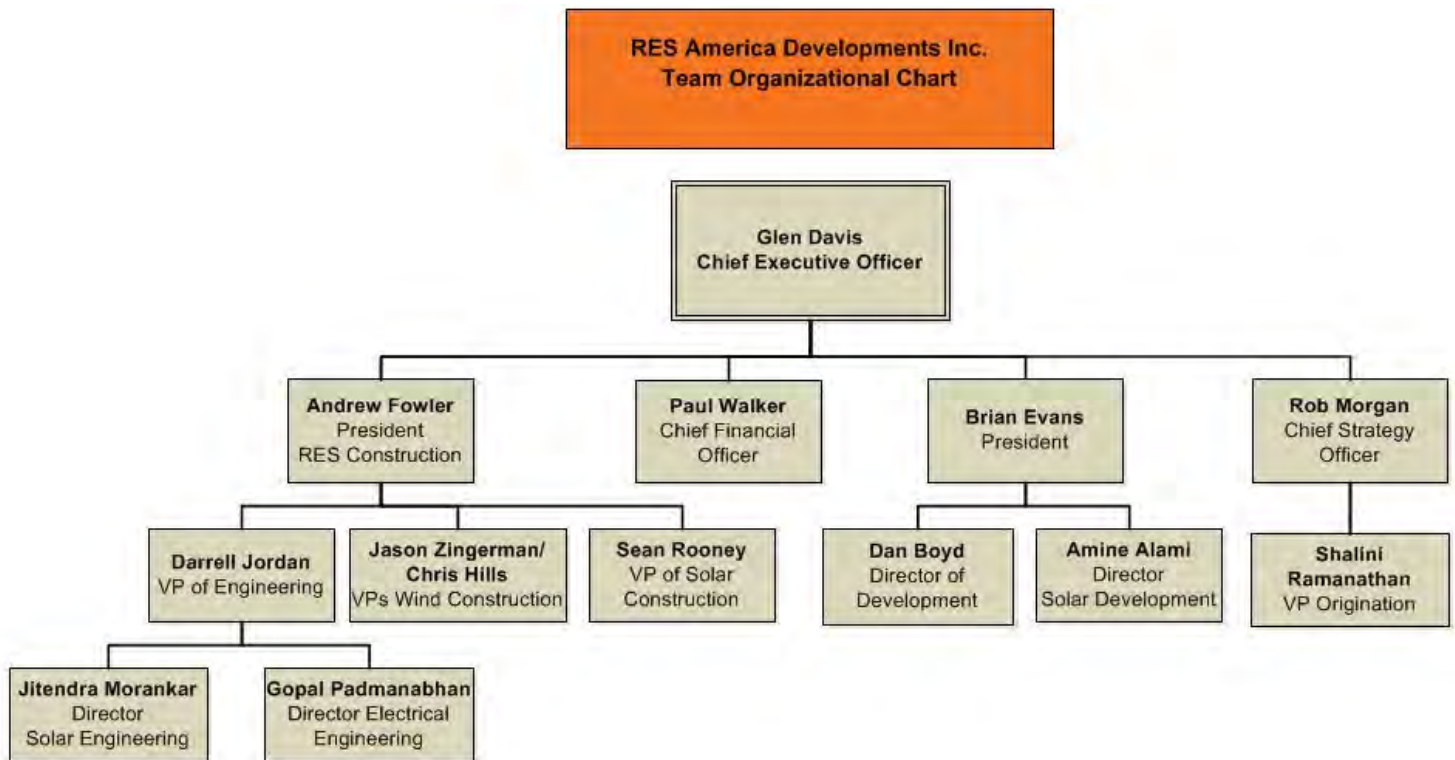


## The Geography of RES Technology Projects

Total MW = 8092.8



## Management Structure & Resumes



The following information includes background on all personnel involved in the project including senior management, financing, and responsibility for meeting the obligations of the Project.



### Brian Evans, President



Mr. Evans joined RES's parent company, Sir Robert McAlpine Enterprises Ltd., in 1994 as a Project Manager and began working for RES Ltd. in 1996 in the UK. After serving as Project Manager for the construction of two wind farms in Ireland, he moved to the U.S. in 1998 as Vice President (Construction) to set up RES Ltd.'s new North American subsidiary, RES. In 2005, Mr. Evans was named Senior Vice President of Development for RES, and in January 2010 he was named Executive Vice President of Business Development, where he is responsible for securing new construction business across North America. In 2014, Mr. Evans was appointed Chief Development Officer leading RES' Project Development group.

Mr. Evans has more than 20 years of experience in the construction industry. He served on the Board of the American Wind Energy Association (AWEA) from 2002-2005. Mr. Evans holds a BA (Hons) and an MA in Engineering Science from Oxford University and an MBA from London Business School, and he is a Member of the Institution of Civil Engineers (UK) and C Eng. Chartered Engineer (UK).

### Rob Morgan, Chief Strategy Officer



Mr. Morgan joined RES as Chief Development Officer in 2013 and was appointed Chief Business Development Officer in August 2014. He comes to RES from Agile Energy, a company he founded and led for over nine years.

Mr. Morgan has spent 25 years in the global independent power business, including several years with AES Corporation. He was instrumental in building companies such as Agile Energy and Ausra, Inc. by successfully developing, acquiring, and operating utility-scale power generating assets with both renewable and conventional technologies.

He has a successful track record in all aspects of the project development cycle including site identification and acquisition, securing interconnection and transmission rights, permitting, PPA and fuel supply negotiation, EPC and technology selection, and contracting. Mr. Morgan has worked throughout North America and led operating businesses in the former Soviet Union (Kazakhstan), Chile, and El Salvador. Across continents, he has raised more than \$2 billion in project and corporate finance capital.

Mr. Morgan holds a BA in Economics and an MS in Engineering from Stanford University.

### **Paul Walker, Chief Financial Officer**



Mr. Walker joined RES in the Americas in 2012 as Chief Financial Officer. He joined the American team after working for RES Group where he was Director of Financial Planning and Analysis. Previously, Mr. Walker held various Director roles within RES Group, including the position of Finance Director for the Northern European and Asia Pacific businesses.

Prior to joining RES Group, Mr. Walker worked at British Telecommunications for seven years. He established and ran the global acquisition integration team for finance and also ran the global cash management business which had a multi-billion dollar monthly activity level. Before his work at British Telecommunications, he worked for Telecommunications Australia (Telstra) and worked on the team which set up one of the largest joint ventures in the telecommunications business. Mr. Walker also worked for Cap Gemini and was a Management Consultant in South Africa.

Paul holds a Bachelor of Commerce degree and is a qualified accountant (Association of Chartered Management Accountants).

### **Andrew Fowler, B.Eng., President RES America Construction**



Mr. Fowler is a solid executive whose leadership has directly contributed to the successful implementation of over 8,000 MW of wind, solar, and energy storage projects, and over 650 miles of overhead and transmission lines globally.

He joined Sir Robert McAlpine Enterprises Ltd., in 1989 as a Construction Manager for wind and nuclear energy facilities in the U.K. In 1998, Mr. Fowler moved to RES Limited's subsidiary in the Americas and eventually became the Executive Vice President of Construction and Engineering where he was responsible for managing the construction of the company's renewable energy projects across North America. In 2011 Mr. Fowler was named Chief Operating Officer and continues to manage the engineering, construction, and operations teams for the company in the Americas.

Mr. Fowler has over 25 years of construction and engineering experience. He holds a B.Eng. (Hons) in Civil Engineering from Salford University (U.K.).

### Shalini Ramanathan, Vice President Origination



Ms. Ramanathan has closed multiple deals with nearly \$2 billion in total transaction value. She worked on the RES team that negotiated a wind power purchase agreement with Microsoft, the first-ever direct green power purchase for that company. She has transacted with numerous utilities including Xcel Energy, Oklahoma Gas & Electric, and Arkansas Electric Coop and has worked on merchant/hedge wind projects. In 2010, she was ERCOT regulatory chair of the trade association, The Wind Coalition. In that role, she contributed to securing approval for the \$7 billion CREZ transmission line build-out in Texas, which is bringing hundreds of MW of clean power online.

Prior to joining RES, Ms. Ramanathan was based in Nairobi, Kenya and worked on renewable energy projects across East Africa for the British company CAMCO. She also worked for the National Renewable Energy Laboratory (NREL) where she focused on renewable energy deployment and policy in Southern Africa, India, and the Philippines.

She holds a Master's degree in Environmental Management from Yale University and a BA from UT Austin. She lives in Austin, TX, and is a Next Generation Fellow at UT's LBJ School of Public Affairs. She serves on the Board of Trustees of The Contemporary, an Austin arts institute.

### Dan Boyd, Senior Director of Development



Dan is currently Senior Director of Development for Renewable Energy Systems, where he is responsible for the development of Wind, Solar, Energy Storage and Microgrids in the Eastern US. Previously, Dan was Manager of Business Development for FuelCell Energy, Inc. where he developed both utility scale and behind the meter Fuel Cell projects. Dan has worked with various aspects of development and mergers & acquisitions of renewable energy projects throughout the Americas as Principal Consultant with Ozone Renewables. Prior to Ozone, Dan was Director of Development at Noble Environmental Power, LLC, where he developed over 400MW of operational wind farms throughout the northeast. Dan is a graduate of the United States Air Force Academy where he obtained a BS in Civil Engineering and also has a MBA from the University Of Connecticut School Of Business.



### **Amine Alami, Director of Solar Business Development**



Mr. Alami has been involved in the photovoltaic industry through multiple roles spanning cutting edge research at the semiconductor level, the technical development of distributed generation and utility-scale photovoltaic systems, and the engineering, procurement, and construction management of these projects.

After receiving his MBA, Mr. Alami worked as manager of operational solar assets at one of the first pioneers of the solar PPA in the U.S. Through his tenure, he had oversight over all technical, engineering, and financial operations spanning 22 installed PV systems.

Most recently, Mr. Alami worked with developing a large utility-scale project and was the solar operations director of a 360 MWdc/250 MWac PPA contracted project with LADWP built on the Moapa Band of Paiute Native American Land. He joined RES in 2015 where he performs business development, origination, and investment structuring of large solar projects.

Mr. Alami holds an MBA from the Georgia Institute of Technology.

### **Darrell Jordan, P.E., Vice President of Engineering**



Mr. Jordan is a well-respected industry professional with over 25 years of experience in the design and delivery of power operations. His expertise has proven invaluable at RES as he has provided oversight of teams of up to 245 engineers and designers on multiple, large EPC projects.

In his role as VP of Engineering, Mr. Jordan leads the civil, electrical, and mechanical engineering efforts to support RES' renewable energy, energy storage, and transmission development and construction projects across North and South America.

Mr. Jordan holds both a BS and an MS in Civil Engineering from the Georgia Institute of Technology.



### **Jason Zingerman, Sr. Vice President of Construction**

Mr. Zingerman is a highly motivated, results-oriented professional with the proven ability to deliver quality, well managed projects on-schedule. He has nearly 20 years of industry experience and has been with RES since 2007.

As Sr. Vice President of Construction, Mr. Zingerman is responsible for the contract and construction management of renewable energy, energy storage, and transmission projects in the Americas. His ability to manage multiple projects through completion within time deadlines and budget estimates has led to the successful delivery of dozens of solar, wind, and energy storage projects in North America.

Mr. Zingerman attended Texas Tech University.



### **Chris Hills, Sr. Vice President of Construction**

Mr. Hills joined RES in the Americas in 2000, initially as a Site Manager. He soon became a Project Manager. He supervised the construction of projects in Texas and Washington. In 2005, he was promoted to Director of Construction Projects with a special focus on the Pacific Northwest. In 2008, Mr. Hills was named Senior Vice President of Construction for the South Central region of the U.S. In this role, he now leads multiple project management teams and is responsible for the successful completion of those projects.

Mr. Hills has over 20 years of experience in civil engineering and holds a BEng (Hons) in civil engineering from the University of Bristol in England.



### **Gopal Padmanabhan, PE, P.Eng., Director of Electrical Engineering**

Mr. Padmanabhan draws on over 30 years of progressive experience to provide design team support in developing scope of work, performance specifications, review of design and control schemes, and preliminary cost estimates for solar, wind, and energy storage projects. He has a proven track record of timely project delivery, project management, cost control, and customer satisfaction.

Mr. Padmanabhan attends site visits and performs construction support, testing and commissioning for solar, wind, and energy storage projects. He also develops safety procedures for energization/switching and for plant operations and maintenance. He conceptualizes and implements a virtual “grid” to test and simulate collection system in the absence of back feed power.

Mr. Padmanabhan holds an MS in Electrical Engineering from Concordia University in Montreal.

### **Jitendra Morankar, Director of Solar Engineering**



Jitendra Morankar joined RES in 2008 and manages the engineering team in designing and optimizing production of utility-scale solar facilities. His keen ability to execute solar design from concept to commissioning has contributed to the successful construction and operation of over 350 MW of solar projects in the United States and Canada.

He is a recognized speaker at leading solar industry conferences, such as Solar Power International (SPI), IEEE, PV America, and Texas Renewable Energy Industries Association (TREIA).

Mr. Morankar holds an MS in Mechanical Engineering from the University of Buffalo and an MBA in Finance from the Leeds School of Business at the University of Colorado.

### **Doug Biggers, Project Director**



With over 30 years of professional construction experience, Doug Biggers encompasses exceptional construction management skills and experience providing leadership and guidance in all off-site and on-site construction activities and site safety compliance. He has been responsible for the construction, commissioning, and testing of over 500 MW of photovoltaic solar power plants across the United States.

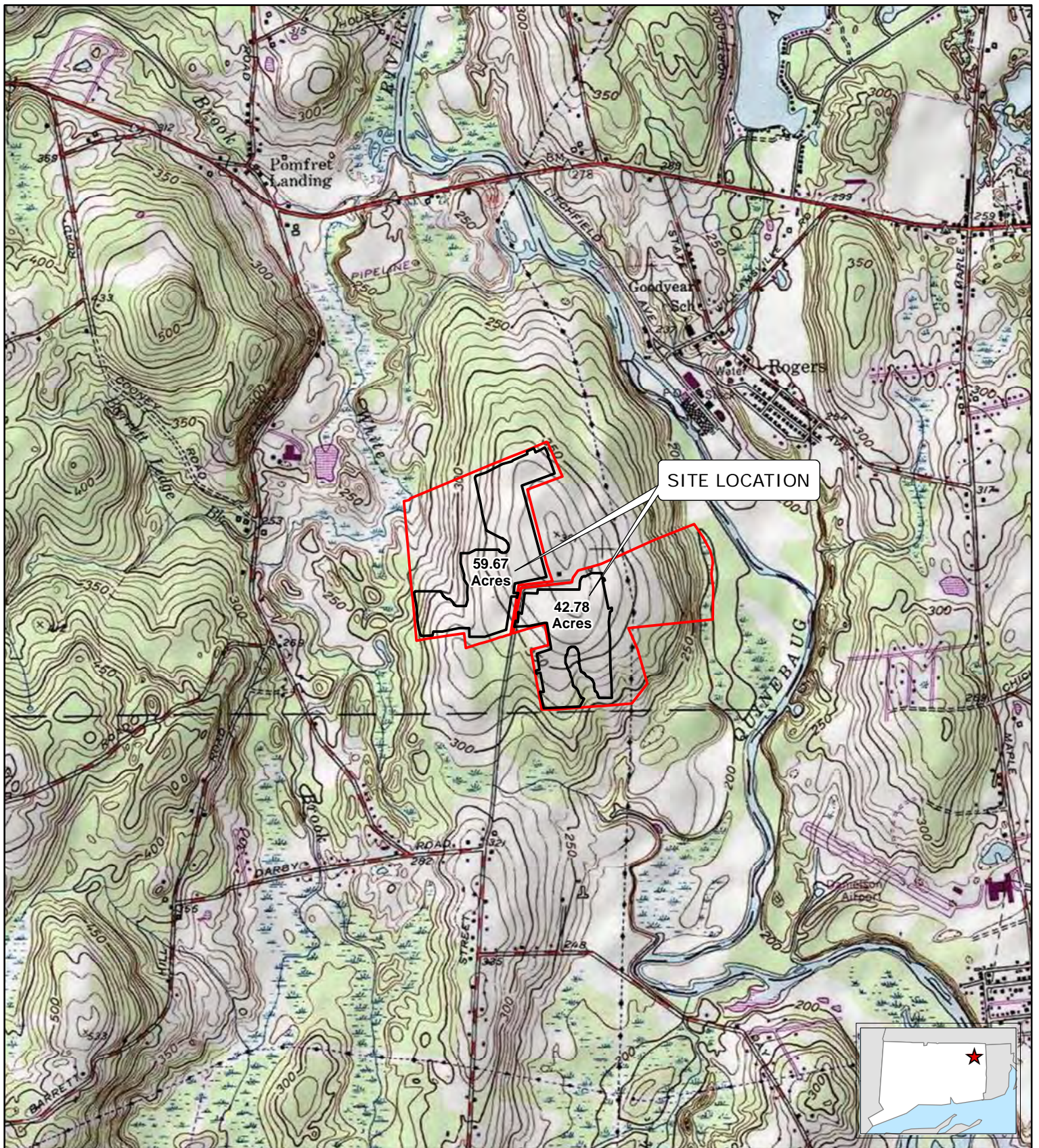
The 250 MW Silver State Solar project in Primm, NV and the 150 MW SolarGen2 solar project in Calipatria, CA are two of the largest solar facilities constructed under his supervision.

Mr. Biggers holds a Juris Doctorate of Law from Oklahoma City University and a BS in Mechanical Engineering from the University of Oklahoma.

## EXHIBIT B:

Figures



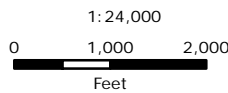


**Legend**

- Project Area Boundary
- Site Parcels

**Tighe & Bond**  
 Consulting Engineers  
 Environmental Specialists

Based on USGS Topographic Map for  
 Danilson, Revised 1970.  
 Contour Interval Equals 10-feet.

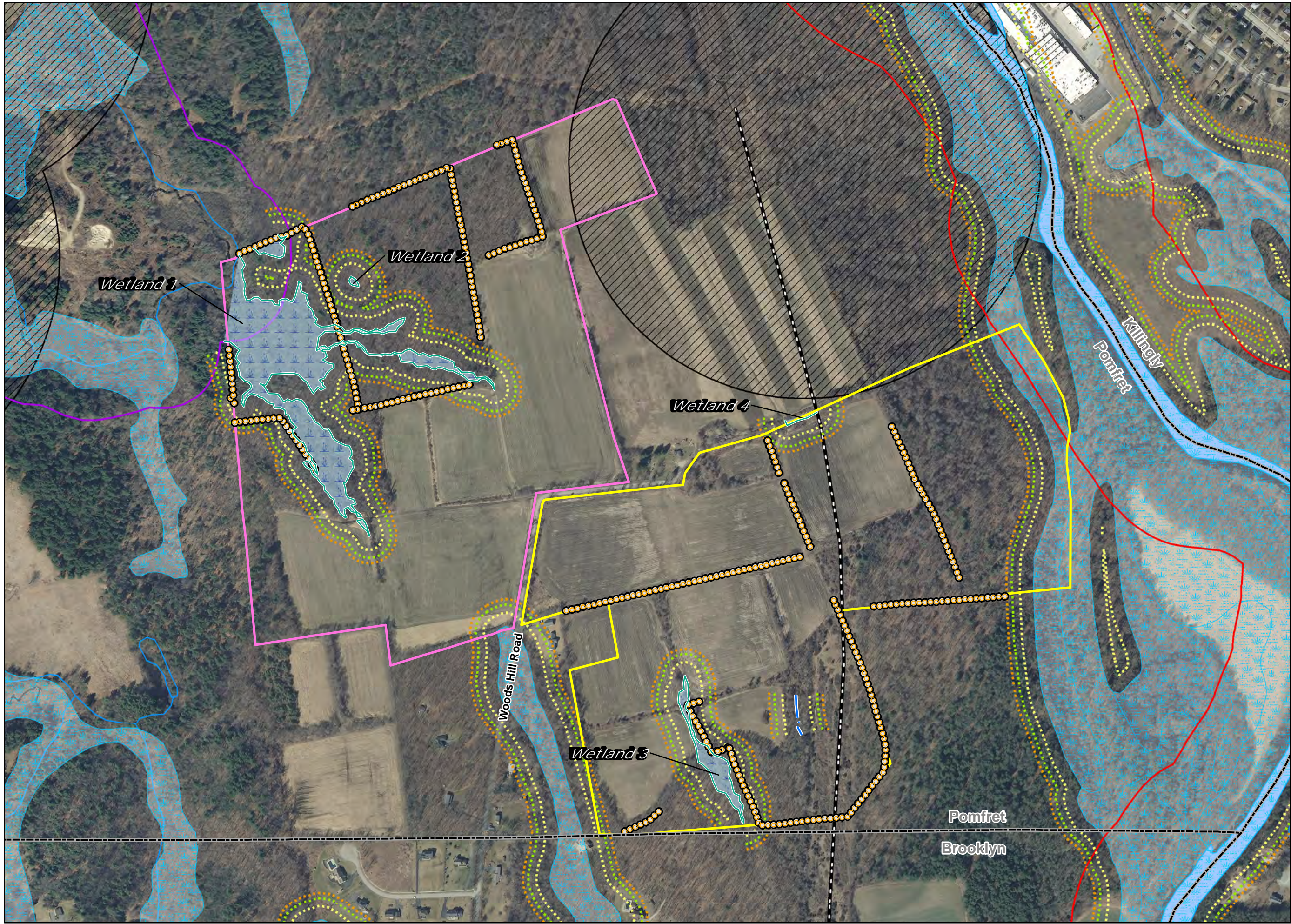


**FIGURE 1**  
 Project Location Map  
 Woods Hill Solar Project  
 Pomfret, Connecticut

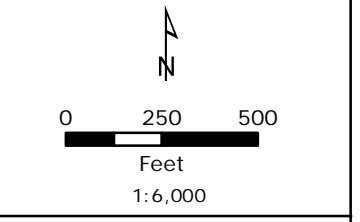
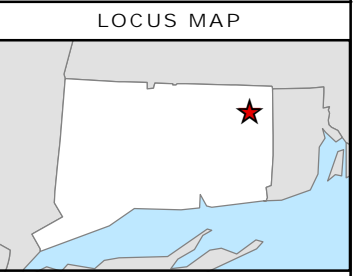
March 2016



FIGURE 2  
Existing Conditions  
Map



- LEGEND
- Site Parcel A (115 Acres)
  - Site Parcel B (113 Acres)
  - Delineated Wetland Boundary
  - Wetland Area
  - CT DEEP Inland Wetland Soils
  - Intermittent Watercourse
  - 150' Upland Review Area
  - 120' Minimum Distance (IWWA)
  - 75' Wetland Buffer Zone
  - 300' Upland Review Area
  - 500' Upland Review Area
  - Watercourse
  - Waterbody
  - Natural Diversity Database Area
  - Stone Wall
  - 345 Kv Transmission Line
  - Town Boundary



- NOTES
1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
  2. 2012 imagery provided by CT DEEP.

Woods Hill  
Solar Project  
Pomfret, Connecticut

March 2016





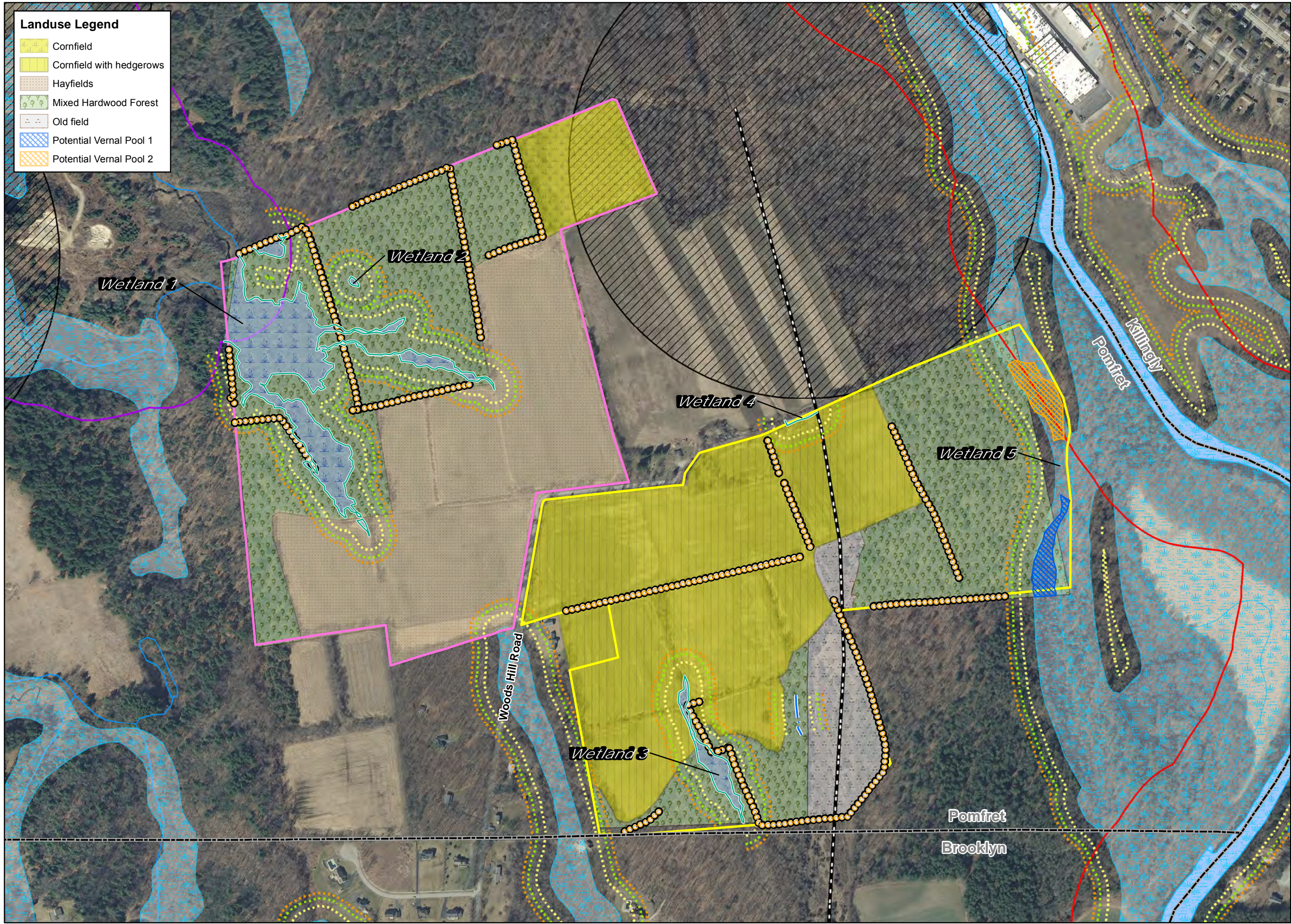
**Landuse Legend**

- Cornfield
- Cornfield with hedgerows
- Hayfields
- Mixed Hardwood Forest
- Old field
- Potential Vernal Pool 1
- Potential Vernal Pool 2

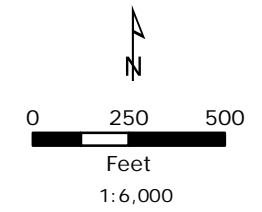
**FIGURE 3**  
Habitat Cover  
Map

**LEGEND**

- Site Parcel A (115 Acres)
- Site Parcel B (113 Acres)
- Delineated Wetland Boundary
- Wetland Area
- CT DEEP Inland Wetland Soils
- Intermittent Watercourse
- 150' Upland Review Area
- 120' Minimum Distance (IWWA)
- 75' Wetland Buffer Zone
- 300' Upland Review Area
- 500' Upland Review Area
- Watercourse
- Waterbody
- Natural Diversity Database Area
- Stone Wall
- 345 Kv Transmission Line
- Town Boundary



**LOCUS MAP**



**NOTES**

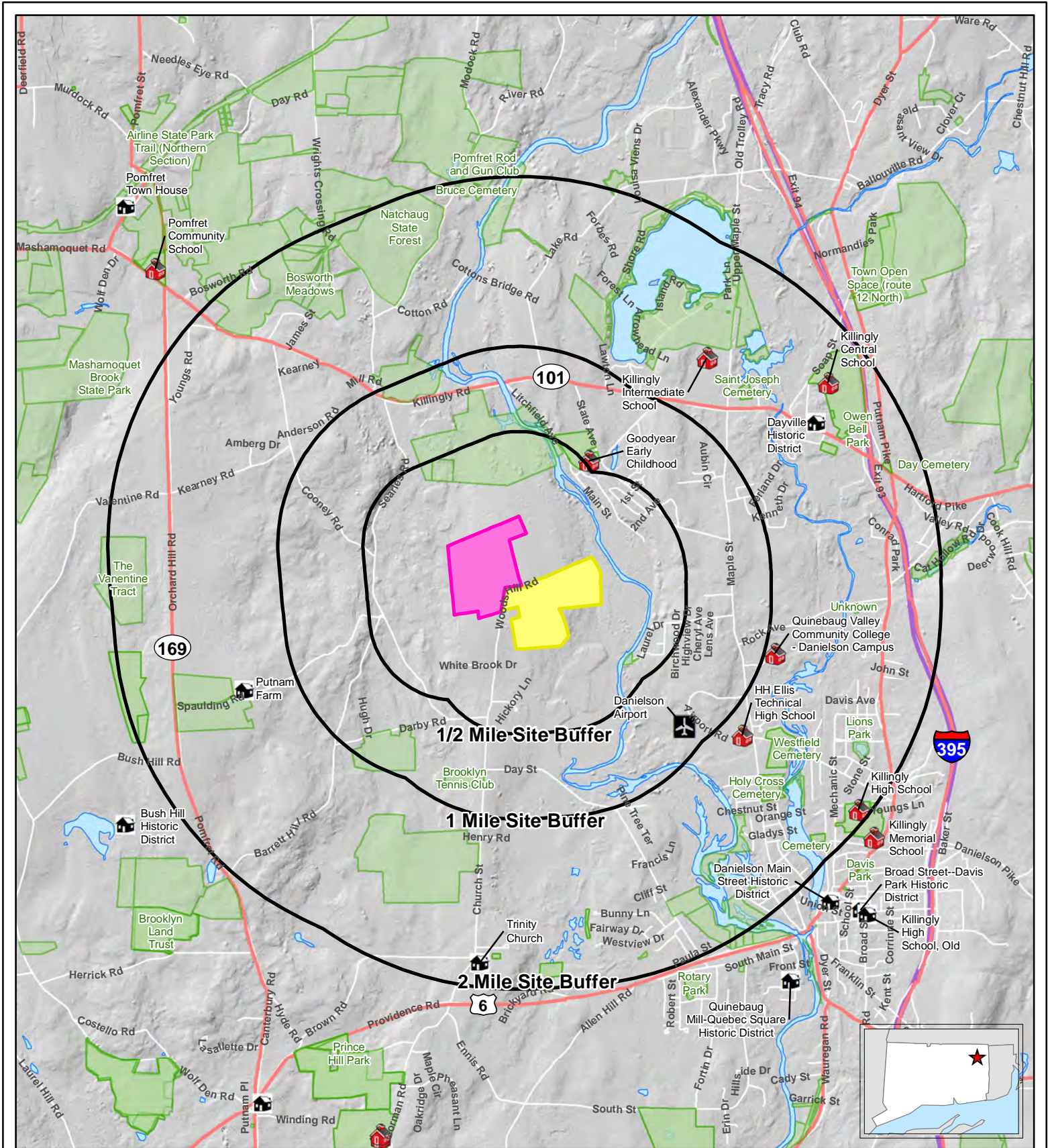
1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
2. 2012 imagery provided by CT DEEP.

Woods Hill  
Solar Project  
Pomfret, Connecticut

March 2016





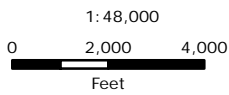


**Legend**

- Site Parcel A (115 Acres)
- Site Parcel B (113 Acres)
- Protected Open Space
- Waterbody
- National Register of Historic Places
- Airport
- School



Based on 2012 Statewide Leaf-Off Orthophotography, and 2000 LIDAR Hillshade, Historic data from NRHP & NPS, Open Space Data from CTDEEP.

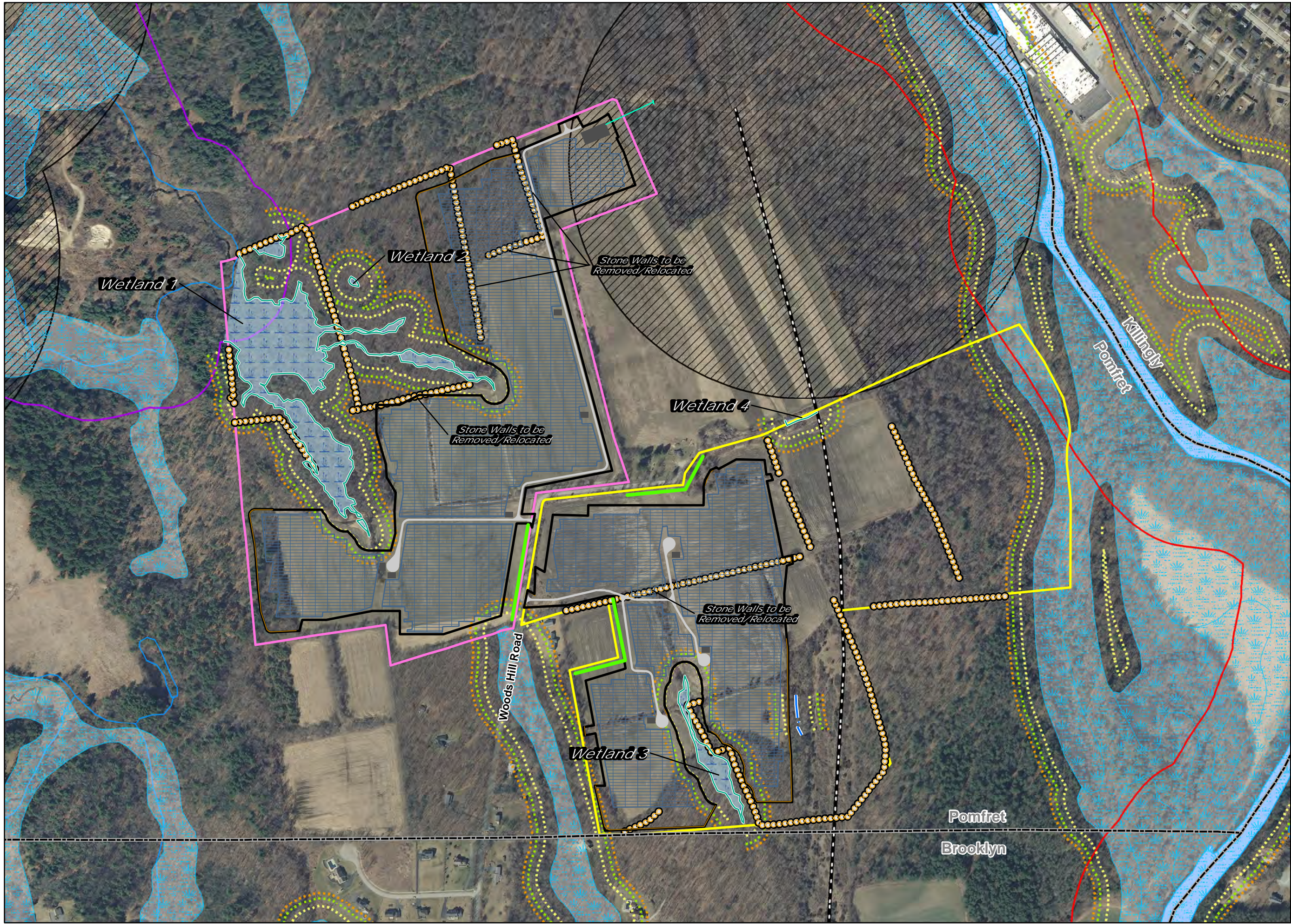


**FIGURE 4**  
 Surrounding Features Map  
 Woods Hill Solar Project  
 Pomfret, Connecticut

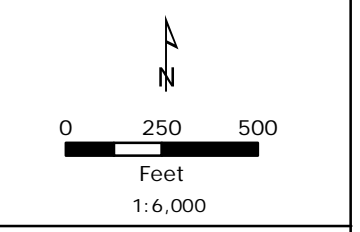
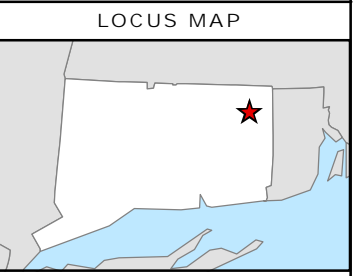
March 2016



FIGURE 5  
Proposed Conditions  
Map



- LEGEND**
- Site Parcel A (115 Acres)
  - Site Parcel B (113 Acres)
  - Project Area (~102 Acres)
  - Proposed Limits of Tree Clearing
  - Proposed Interconnection
  - Proposed Solar Panels
  - Access Road
  - Equipment Pad
  - Vegetation Screening
  - Delineated Wetland Boundary
  - Wetland Area
  - CT DEEP Inland Wetland Soils
  - Intermittent Watercourse
  - 150' Upland Review Area
  - 120' Minimum Distance (IWWA)
  - 75' Wetland Buffer Zone
  - 300' Upland Review Area
  - 500' Upland Review Area
  - Watercourse
  - Waterbody
  - Natural Diversity Database Area
  - Stone Wall
  - 345 Kv Transmission Line
  - Town Boundary



- NOTES**
1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
  2. 2012 imagery provided by CT DEEP.

Woods Hill  
Solar Project  
Pomfret, Connecticut

March 2016





**EXHIBIT C:**  
Detailed Site Plan Layout



Woods Hill Solar Project, Pomfret



# WOODS HILL SOLAR PROJECT

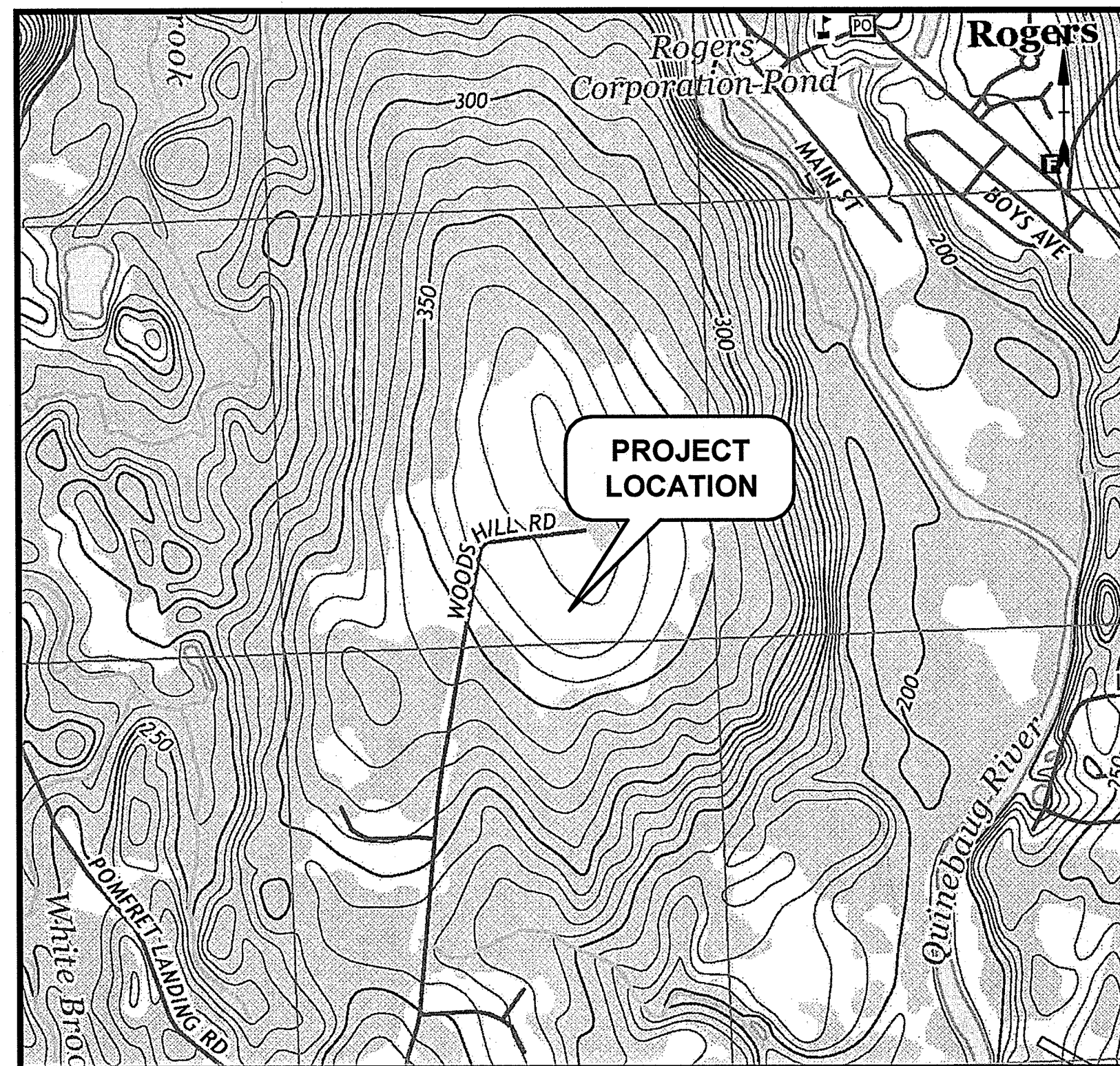
## PERMIT APPLICATION SET

## NOT FOR CONSTRUCTION

## POMFRET, CONNECTICUT

## MARCH 2016

SHEET NO.	SHEET TITLE
G-001	COVER SHEET
G-002	NOTES, LEGEND, AND DETAILS
C-001	EXISTING CONDITIONS AND DEMOLITION - LARGE SCALE
C-002 - C-019	EXISTING CONDITIONS AND DEMOLITION
C-020	PROPOSED CONDITIONS - LARGE SCALE
C-021 - C-038	PROPOSED CONDITIONS



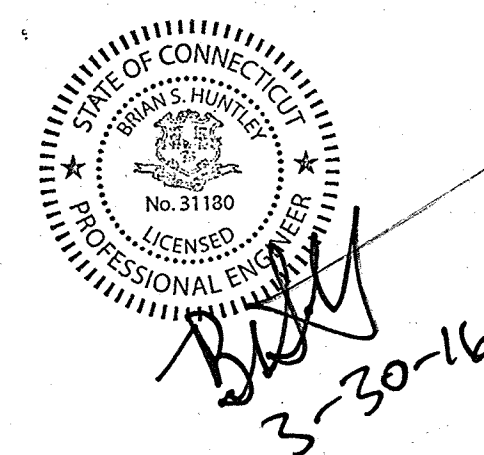
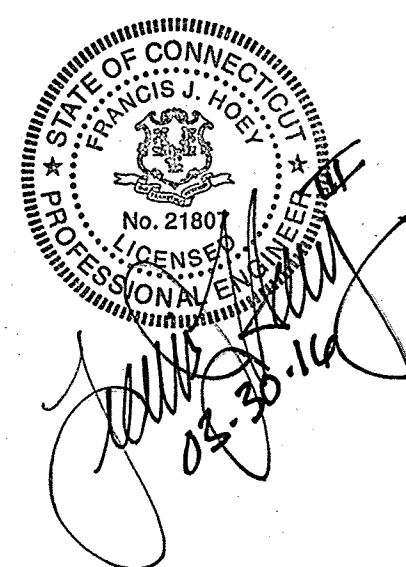
SCALE: 1" = 1,000'

**DEVELOPER:**  
 WOODS HILL SOLAR, LLC  
 11101 WEST 120<sup>TH</sup> AVENUE  
 BROOMFIELD, CO 80021

**LAND OWNERS:**  
 CHISTINA JUANITA & SHEILA NABOZNY  
 101 WOODS HILL ROAD  
 POMFRET, CT 06258

CHARLES & WILLIAM TYLER  
 90 WOODS HILL ROAD  
 POMFRET, CT 06258

**ENGINEER:**  
 TIGHE & BOND, INC  
 53 SOUTHAMPTON ROAD  
 WESTFIELD, MA 01085

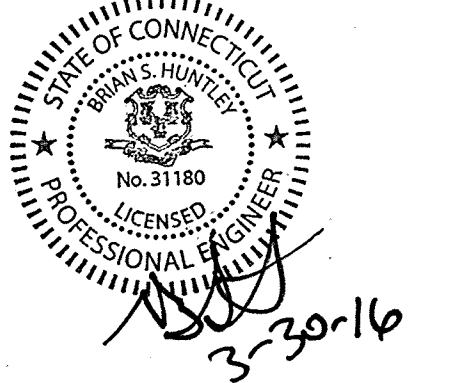
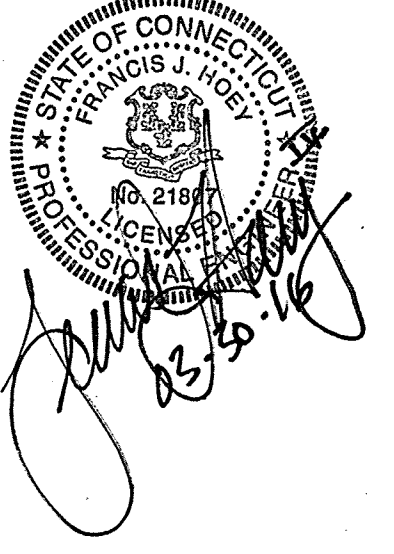


**Tighe & Bond**  
[www.tighebond.com](http://www.tighebond.com)

**COMPLETE SET 40 SHEETS**







**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC  
Pomfret, Connecticut

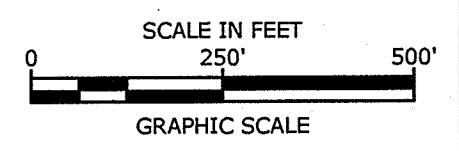
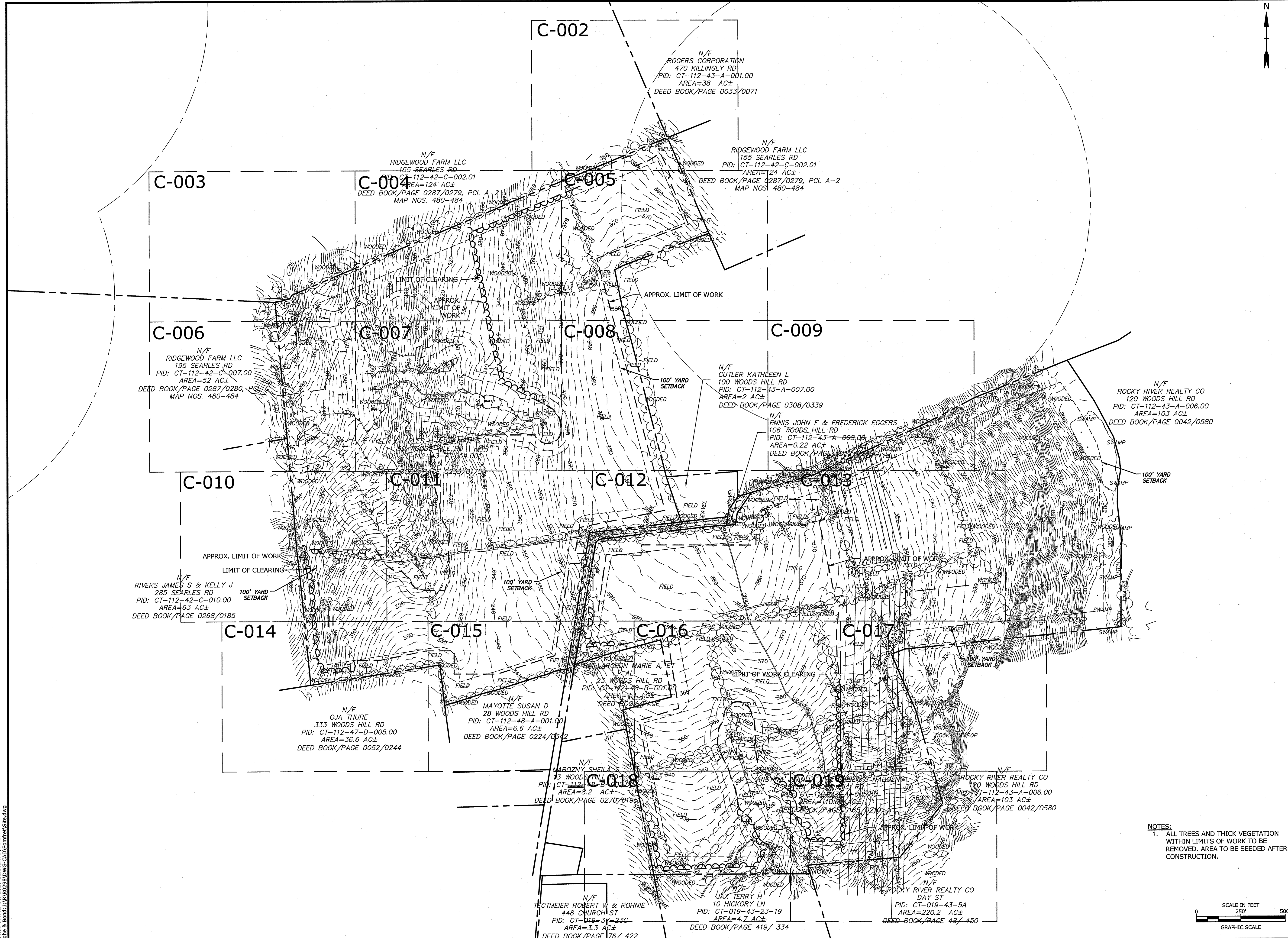
**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO:	R-0298	
DATE:	2015/12/30	
FILE:	Site.dwg	
DRAWN BY:	DGM	
CHECKED BY:	BA/BSH	
APPROVED:	FJH	

EXISTING CONDITIONS AND DEMOLITION - LARGE SCALE

SCALE: 1" = 250'

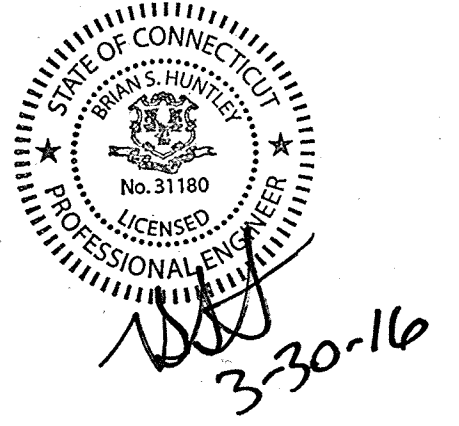
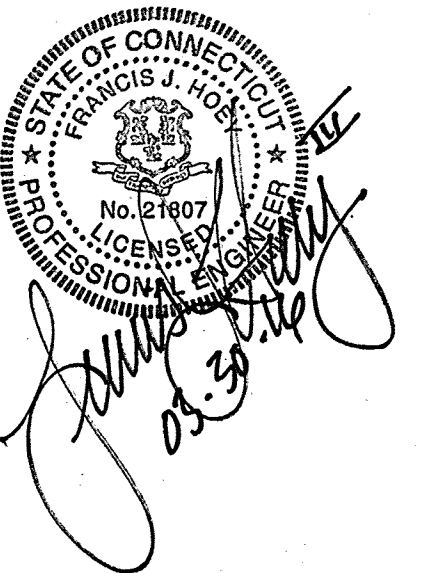
**C-001**  
SHEET 3 OF 40



**NOTES:**  
1. ALL TREES AND THICK VEGETATION WITHIN LIMITS OF WORK TO BE REMOVED. AREA TO BE SEEDED AFTER CONSTRUCTION.





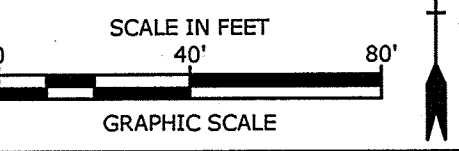


**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC  
Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

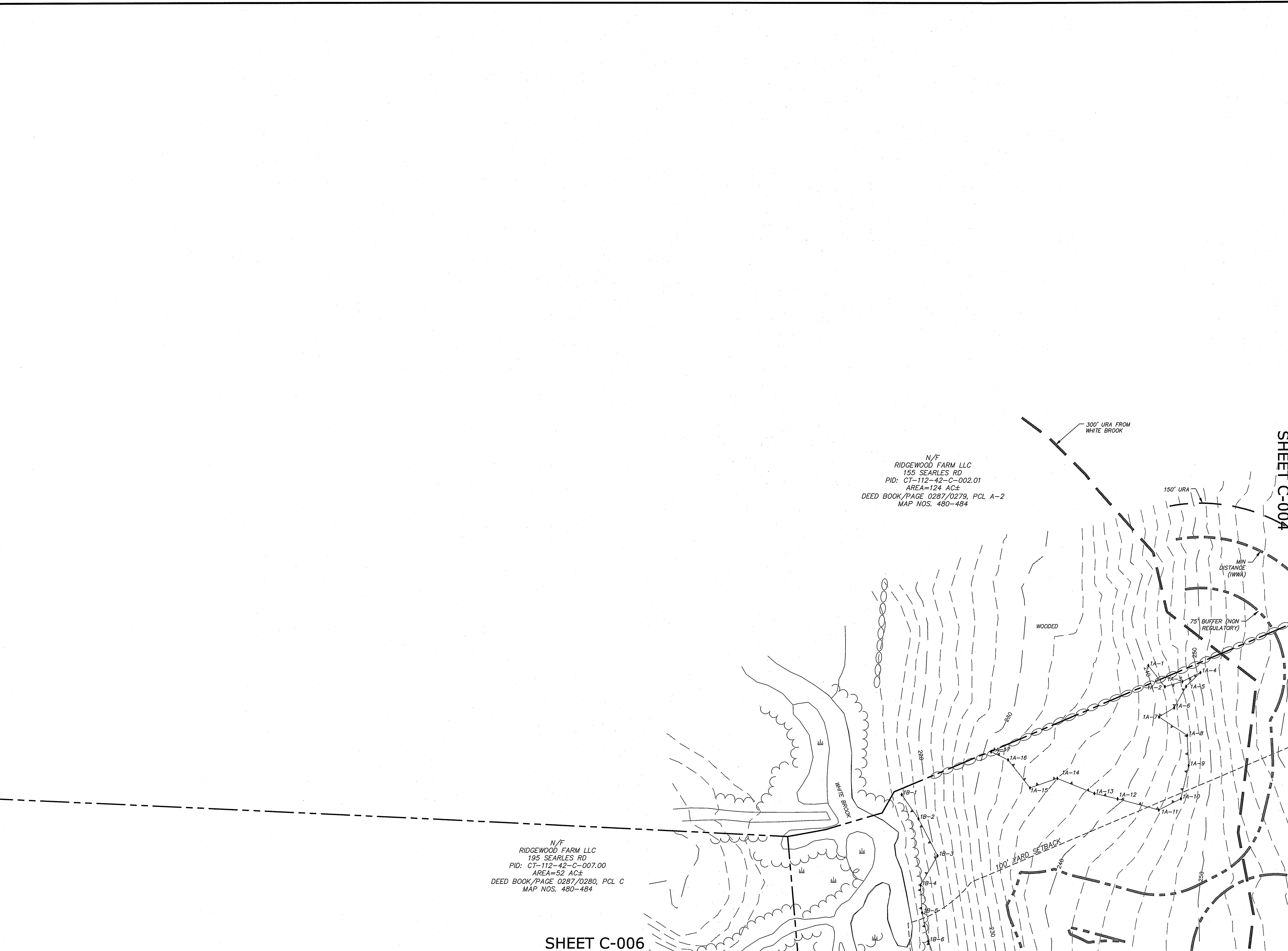


SHEET C-004

N/F  
RIDGEWOOD FARM LLC  
155 SEARLES RD  
PID: CT-112-42-C-002.01  
AREA=124 AC±  
DEED BOOK/PAGE 0287/0279, PCL A-2  
MAP NOS. 480-484

N/F  
RIDGEWOOD FARM LLC  
195 SEARLES RD  
PID: CT-112-42-C-007.00  
AREA=52 AC±  
DEED BOOK/PAGE 0287/0280, PCL C  
MAP NOS. 480-484

**SHEET C-006**



Last Saved: 3/30/2016  
Plotted On: Mar 30, 2016 1:04pm By: DGM  
Tighe & Bond: J:\160298\DWG-CAD\PermitSet.dwg

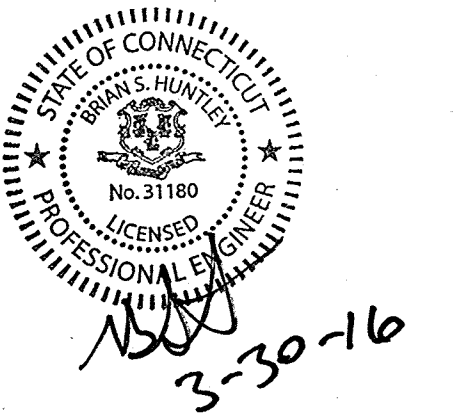
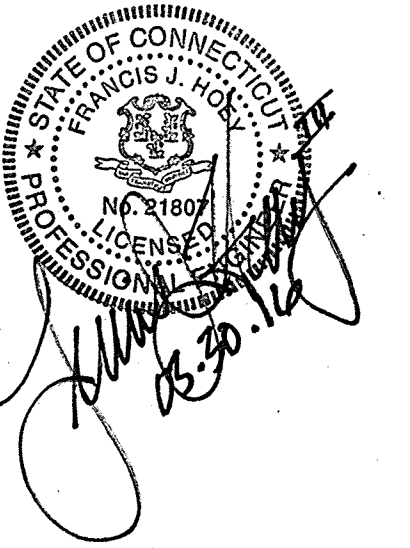
1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED BY:		BA/BSH
APPROVED:		FJH

**EXISTING CONDITIONS AND DEMOLITION**

SCALE: 1" = 40'

**C-003**  
SHEET 5 OF 40





**Permit Set**

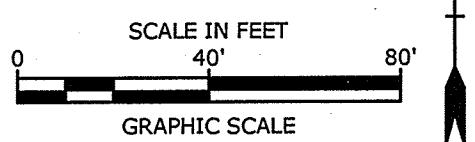
**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**

BAR IS 1 INCH ON ORIGINAL DRAWING  
0 1 INCH  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED BY:		BA/BSH
APPROVED BY:		FJH

EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 40'

**C-004**  
SHEET 6 OF 40

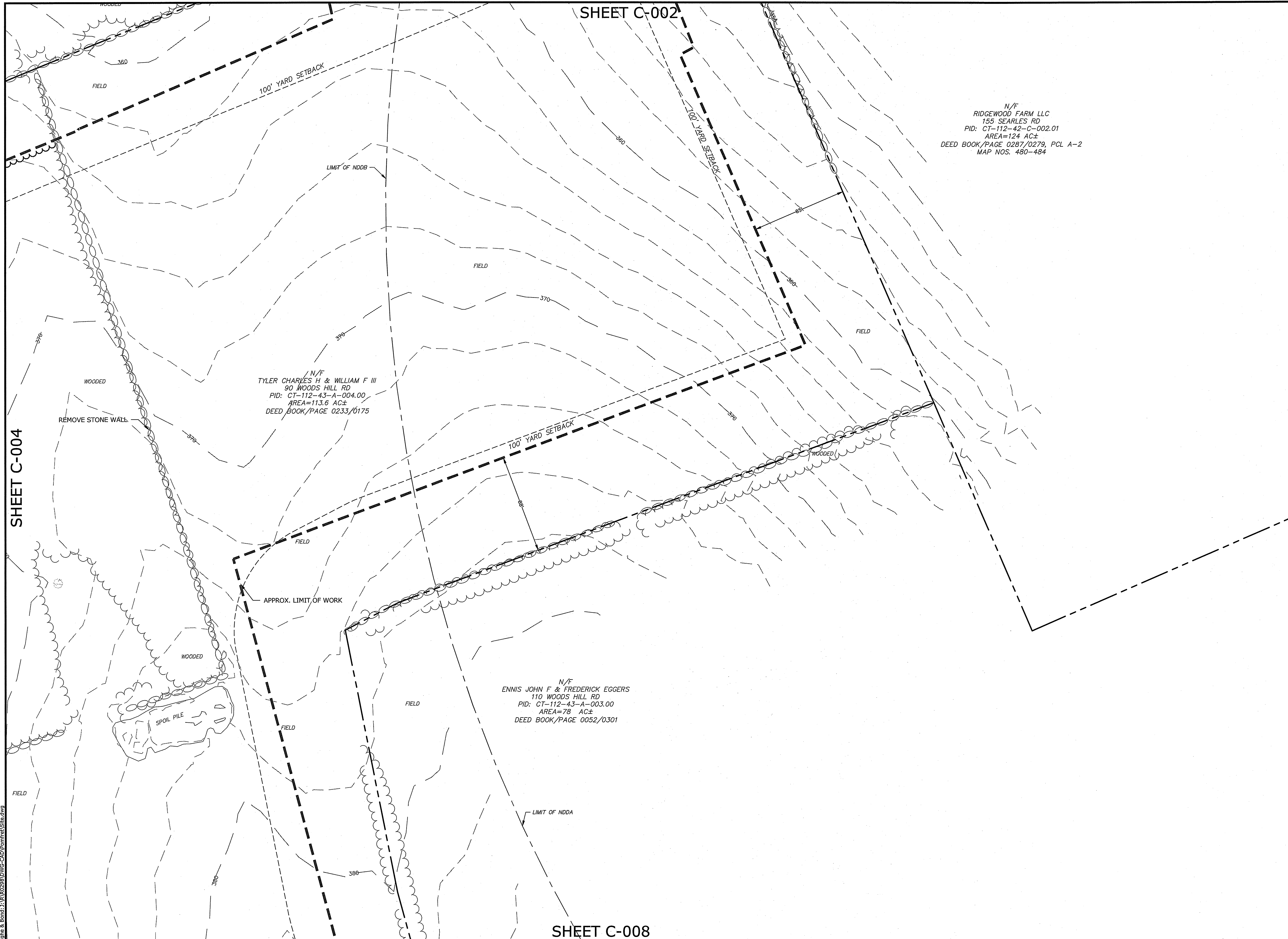
N/F  
RIDGEWOOD FARM LLC  
155 SEARLES RD  
PID: CT-112-42-C-002.01  
AREA=124 AC±  
DEED BOOK/PAGE 0287/0279, PCL A-2  
MAP NOS. 480-484

N/F  
TYLER CHARLES H & WILLIAM F III  
90 WOODS HILL RD  
PID: CT-112-43-A-004.00  
AREA=113.6 AC±  
DEED BOOK/PAGE 0233/0175

SHEET C-007

SHEET C-003

SHEET C-005



SHEET C-002

N/F  
 RIDGEWOOD FARM LLC  
 155 SEARLES RD  
 PID: CT-112-42-C-002.01  
 AREA=124 AC±  
 DEED BOOK/PAGE 0287/0279, PCL A-2  
 MAP NOS. 480-484

N/F  
 TYLER CHARLES H & WILLIAM F III  
 90 WOODS HILL RD  
 PID: CT-112-43-A-004.00  
 AREA=113.6 AC±  
 DEED BOOK/PAGE 0233/0175

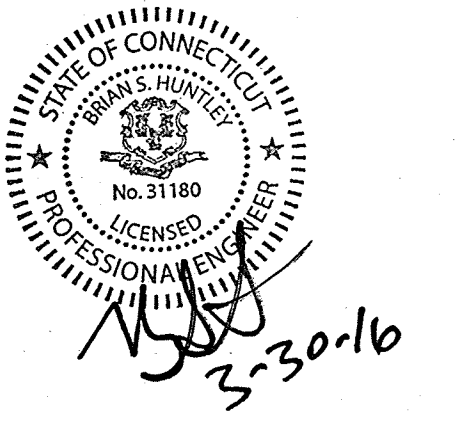
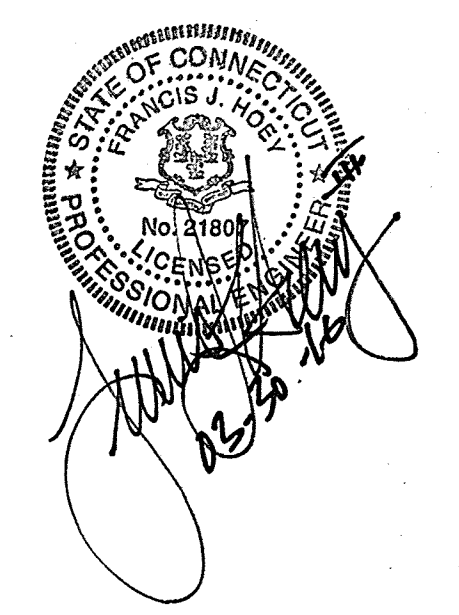
N/F  
 ENNIS JOHN F & FREDERICK EGGERS  
 110 WOODS HILL RD  
 PID: CT-112-43-A-003.00  
 AREA=78 AC±  
 DEED BOOK/PAGE 0052/0301

SHEET C-004

SHEET C-008

Last Saved: 3/20/2016 11:05am By: DGM  
 Plotted On: Mar 30, 2016 11:05am  
 File: C:\Users\DGM\OneDrive\Documents\Woods Hill Solar.dwg

**Tighe & Bond**  
 www.tighebond.com



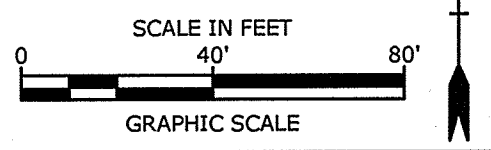
**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
 BAR IS 1 INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE

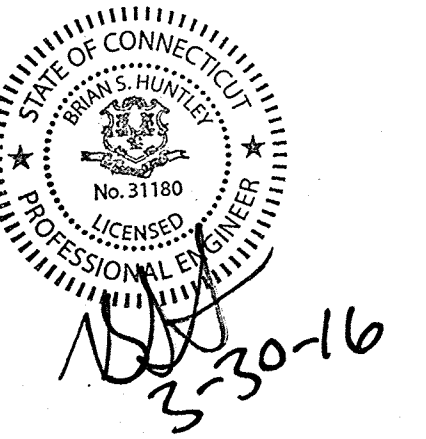
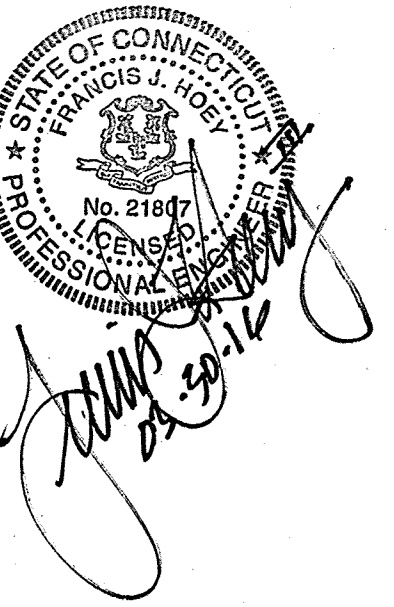
PROJECT NO: R-0298  
 DATE: 2015/12/30  
 FILE: Site.dwg  
 DRAWN BY: DGM  
 CHECKED BY: BA/BSH  
 APPROVED BY: FJH

EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 40'

**C-005**  
 SHEET 7 OF 40





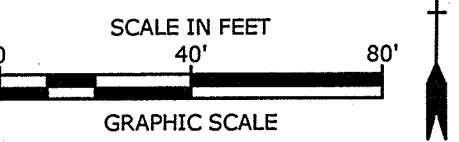
**Permit Set**

**Woods Hill Solar Project**

**Woods Hill Solar, LLC**

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

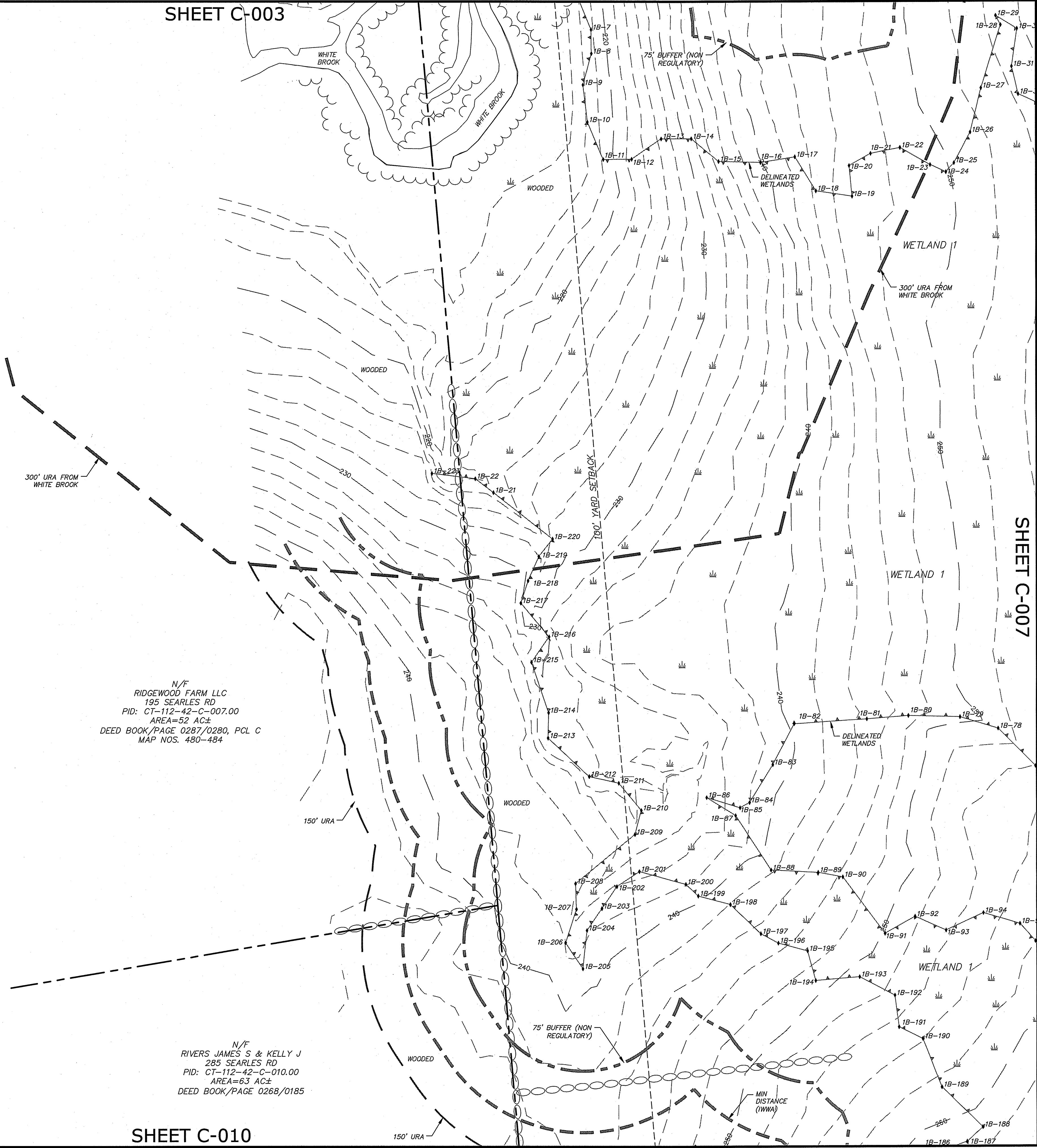


MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO: R-0298		
DATE: 2015/12/30		
FILE: Site.dwg		
DRAWN BY: DGM		
CHECKED: BA/BSH		
APPROVED: FJH		

**EXISTING CONDITIONS AND DEMOLITION**

SCALE: 1" = 40'

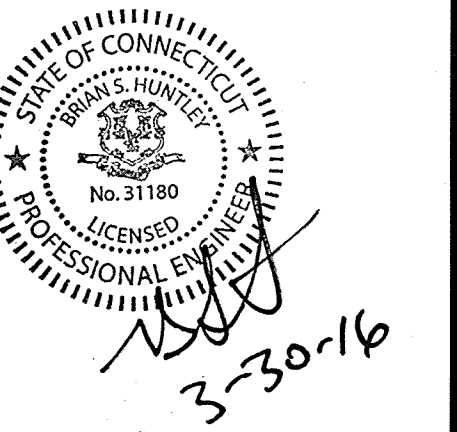
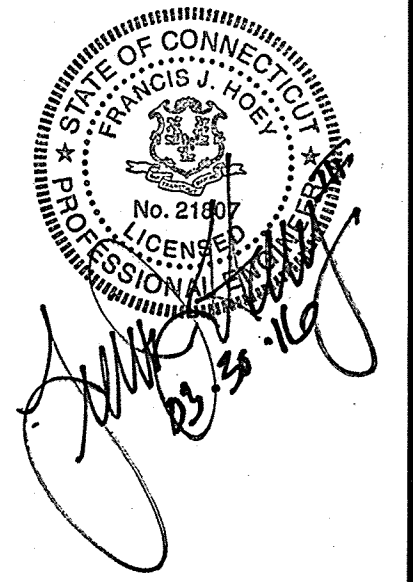
**C-006**  
SHEET 8 OF 40



N/F  
RIDGEWOOD FARM LLC  
195 SEARLES RD  
PID: CT-112-42-C-007.00  
AREA=52 AC±  
DEED BOOK/PAGE 0287/0280, PCL C  
MAP NOS. 480-484

N/F  
RIVERS JAMES S & KELLY J  
285 SEARLES RD  
PID: CT-112-42-C-010.00  
AREA=6.3 AC±  
DEED BOOK/PAGE 0268/0185

Last Saved: 3/30/2016 10:05pm By: DGM  
Picked On: Mar 30, 2016 11:05am  
Tighe & Bond: J:\R0298\DWG-CDD\Pomfret\Site.dwg



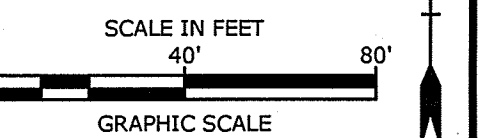
Permit Set

Woods Hill Solar Project

Woods Hill Solar, LLC

Pomfret, Connecticut

VERIFY SCALE  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE

PROJECT NO: R-0298

DATE: 2015/12/30

FILE: Site.dwg

DRAWN BY: DGM

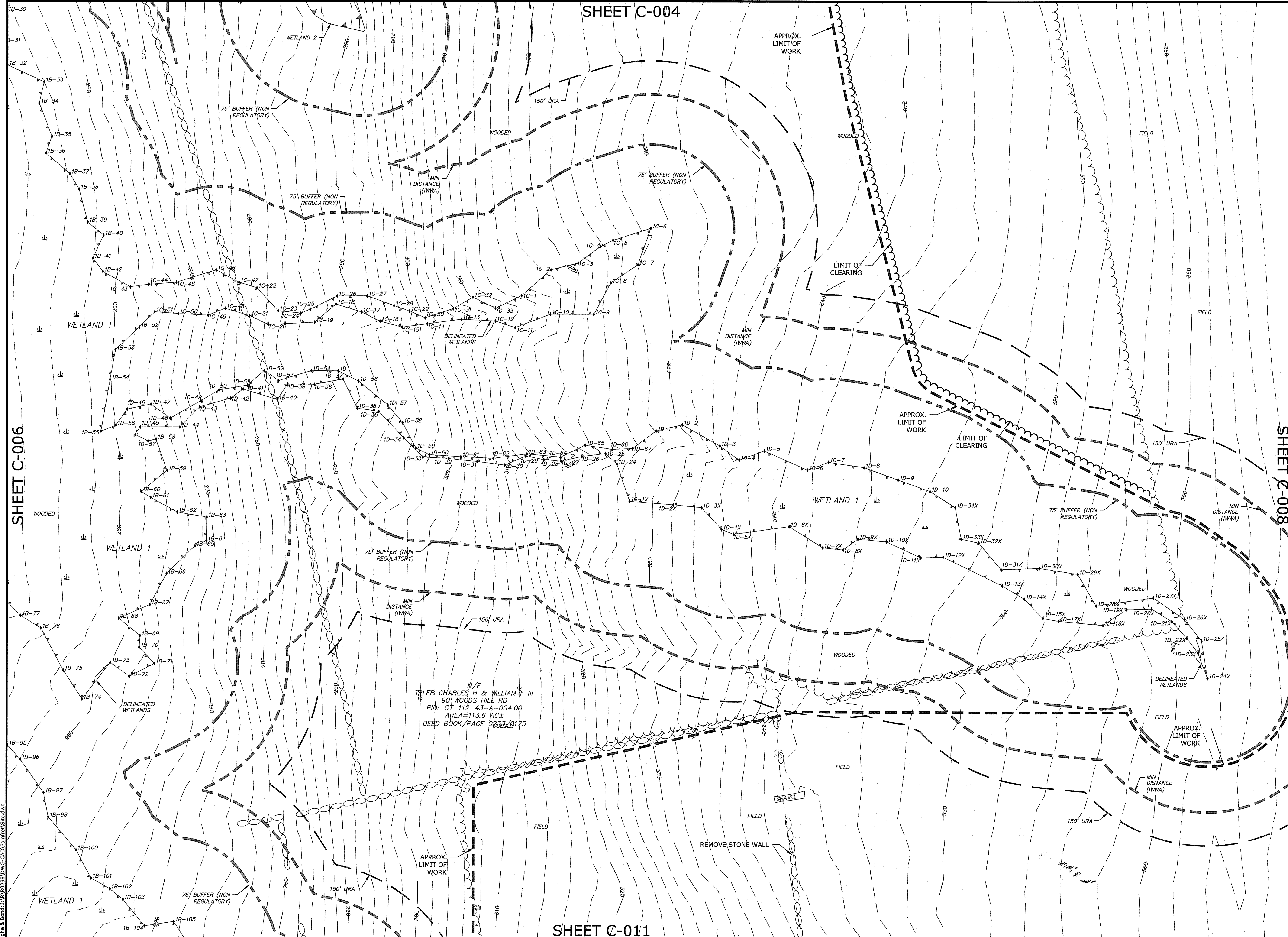
CHECKED BY: BA/BSH

APPROVED BY: FJH

EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 40'

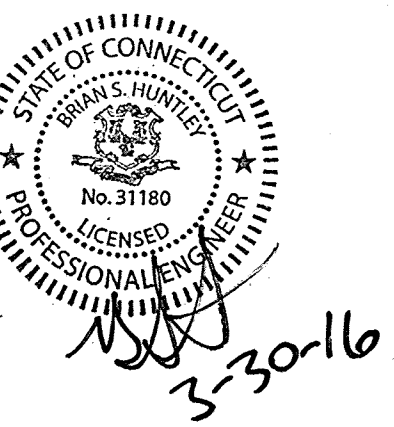
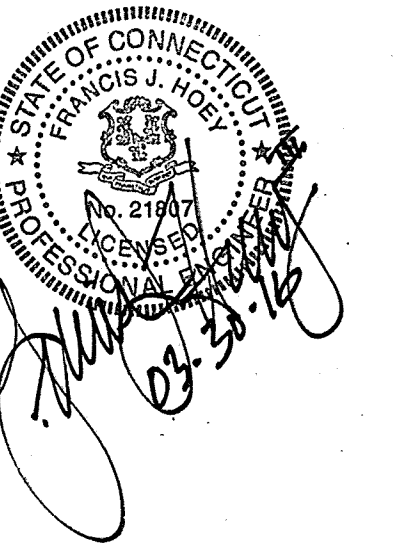
C-007  
SHEET 9 OF 40



N/F  
TISLER CHARLES H & WILLIAM F III  
901 WOODS HILL RD  
PID: CT-112-43-A-004.00  
AREA=113.6 AC±  
DEED BOOK/PAGE 0233/0175

Last Saved: 3/30/2016  
Plotted On: Mar 30, 2016 1:05pm By: DGM  
Tighe & Bond 311 Main Street, Pomfret, CT 06259





SHEET C-009

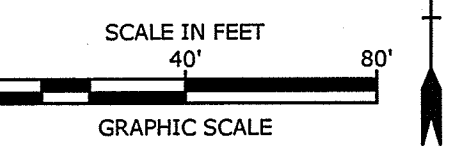
**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
0 1 INCH  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE: Site.dwg		
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 40'

**C-008**  
SHEET 10 OF 40

N/F  
ENNIS JOHN F & FREDERICK EGGERS  
110 WOODS HILL RD  
PID: CT-112-43-A-003.00  
AREA=78 AC±  
DEED BOOK/PAGE 0052/0301

N/F  
TYLER CHARLES H & WILLIAM F III  
90 WOODS HILL RD  
PID: CT-112-43-A-004.00  
AREA=113.6 AC±  
DEED BOOK/PAGE 0233/0175

100' YARD SETBACK

LIMIT OF NDDB

FIELD

FIELD

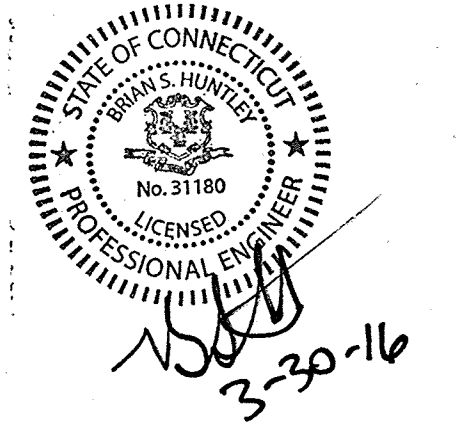
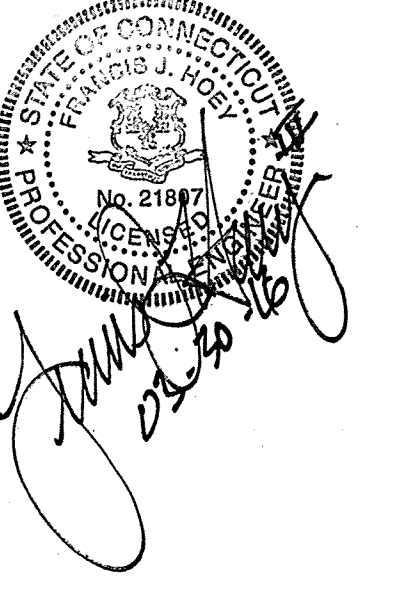
WOODED

FIELD

SHEET C-007

SHEET C-012

Last Saved: 3/30/2016 1:05pm By: DGM  
Plotted On: Mar 30, 2016 1:05pm  
Tighe & Bond: J:\Projects\110 Woods Hill\110 Woods Hill.dwg

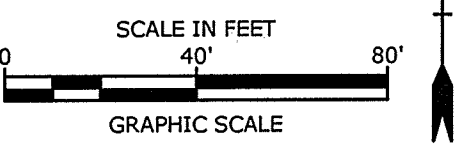


**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC  
Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
		R-0298
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

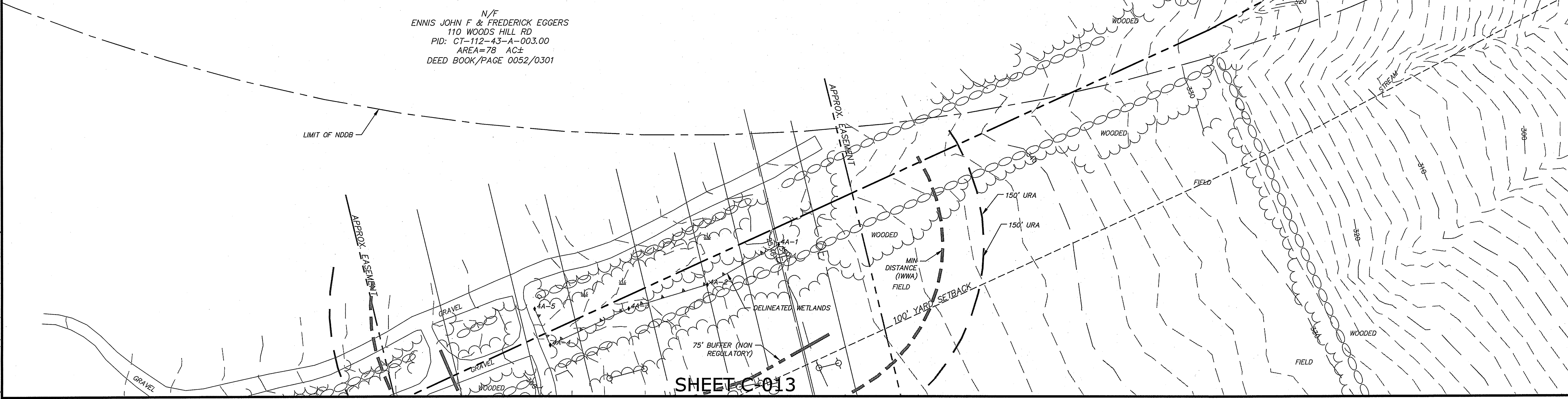
**EXISTING CONDITIONS AND DEMOLITION**

SCALE: 1" = 40'

**C-009**  
SHEET 11 OF 40

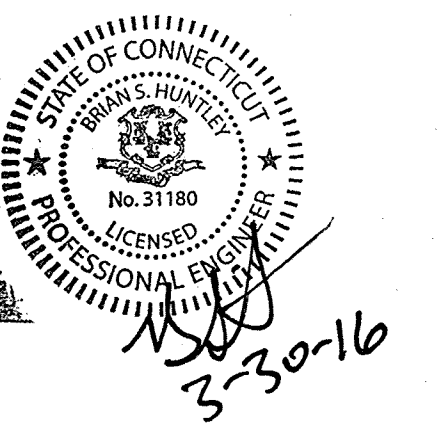
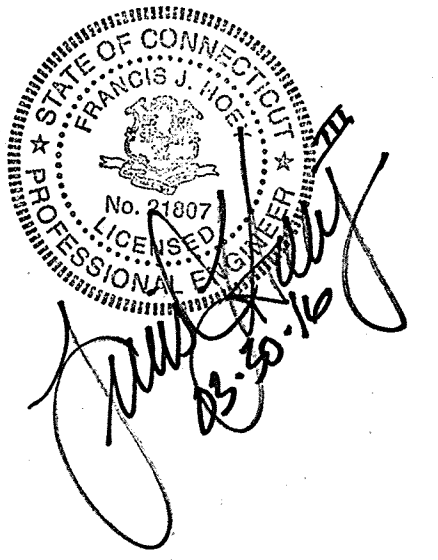
SHEET C-008

Last Saved: 3/30/2016  
Plotted On: Mar 30, 2016 1:05pm By: DGM  
Tighe & Bond: J:\R\0298\DWG-CAD\Pomfret\Site.dwg



N/F  
ENNIS JOHN F & FREDERICK EGGERS  
110 WOODS HILL RD  
PID: CT-112-43-A-003.00  
AREA=78 AC±  
DEED BOOK/PAGE 0052/0301

**SHEET C-013**



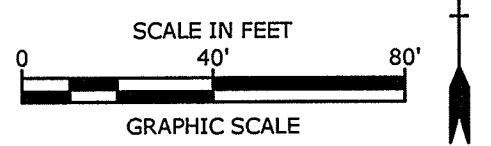
**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

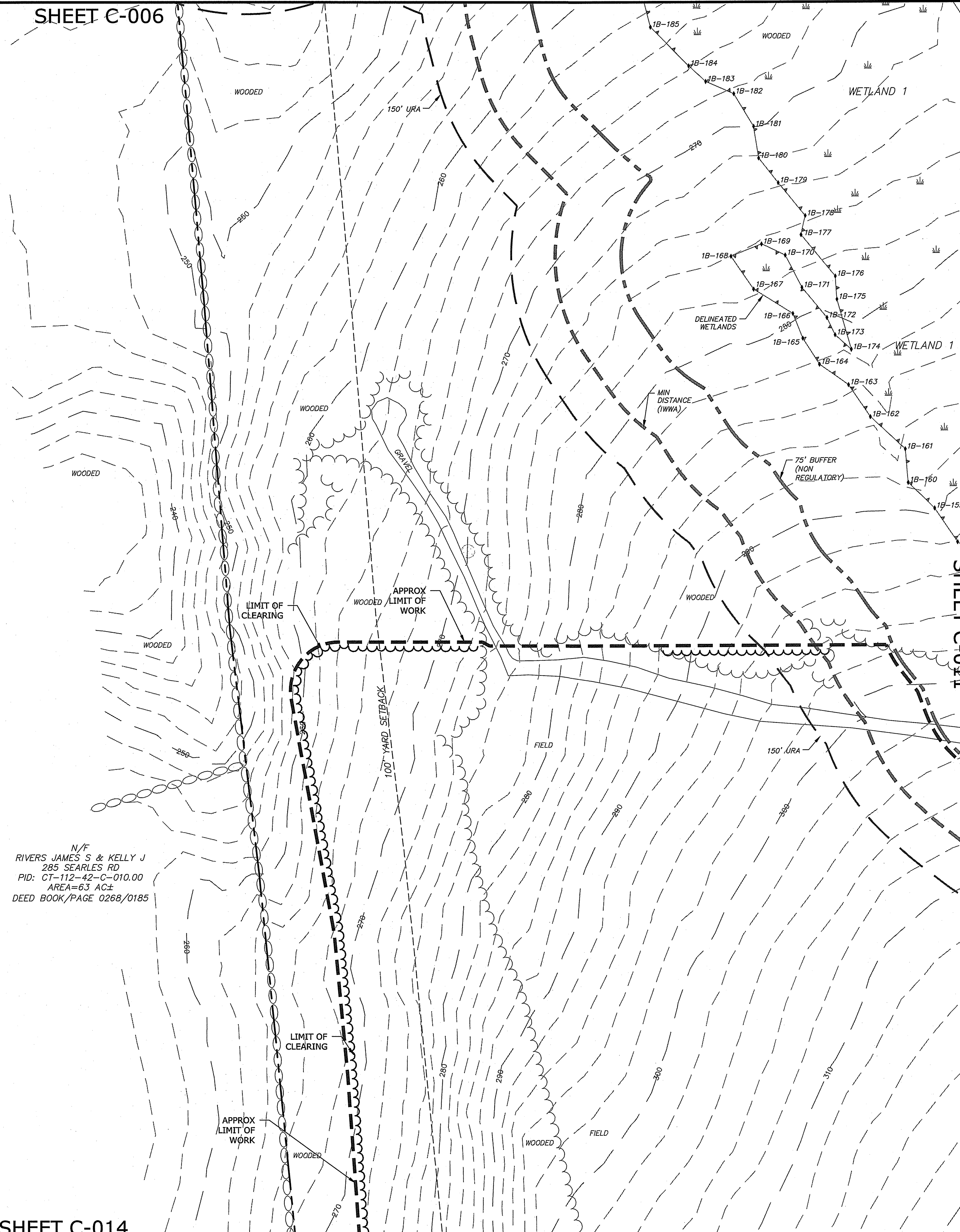


MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

EXISTING CONDITIONS AND DEMOLITION

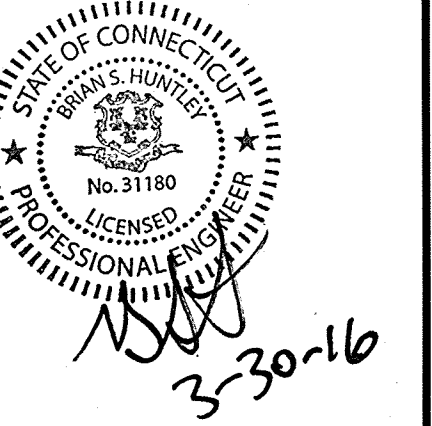
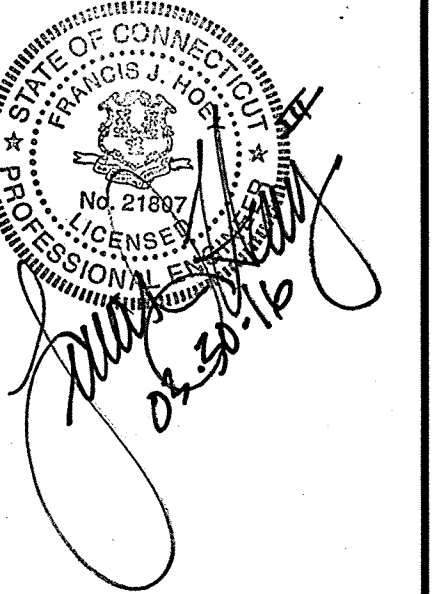
SCALE: 1" = 40'

**C-010**  
SHEET 12 OF 40



N/F  
RIVERS JAMES S & KELLY J  
285 SEARLES RD  
PID: CT-112-42-C-010.00  
AREA=63 AC±  
DEED BOOK/PAGE 0268/0185



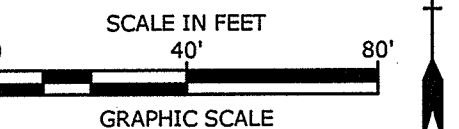


Permit Set

**Woods Hill Solar Project**

Woods Hill Solar, LLC  
Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

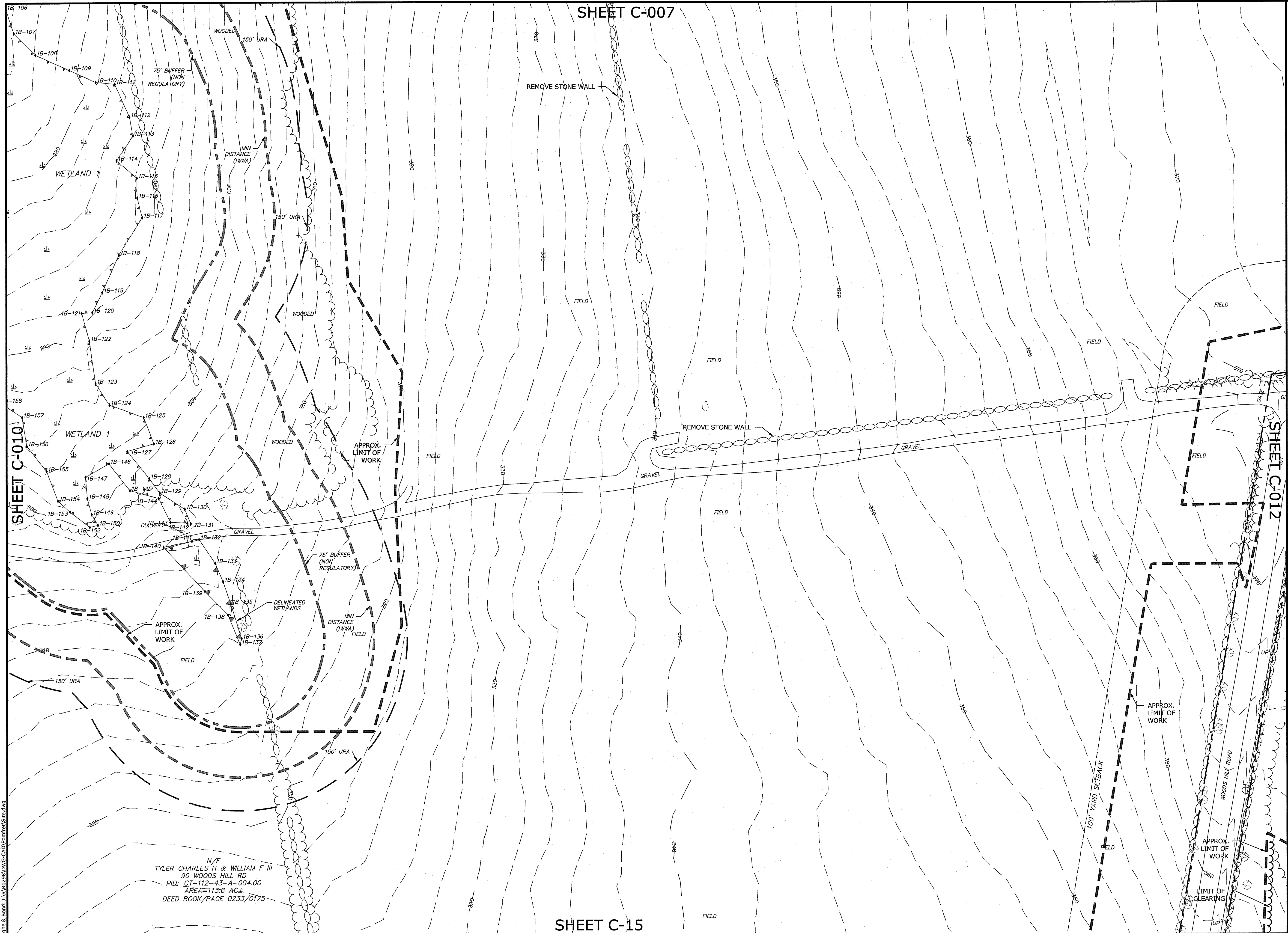


MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 40'

**C-011**  
SHEET 13 OF 40



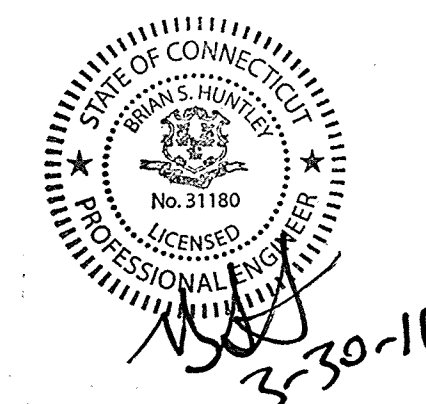
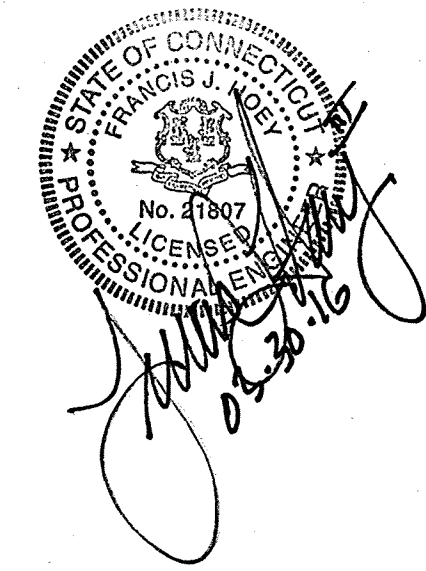
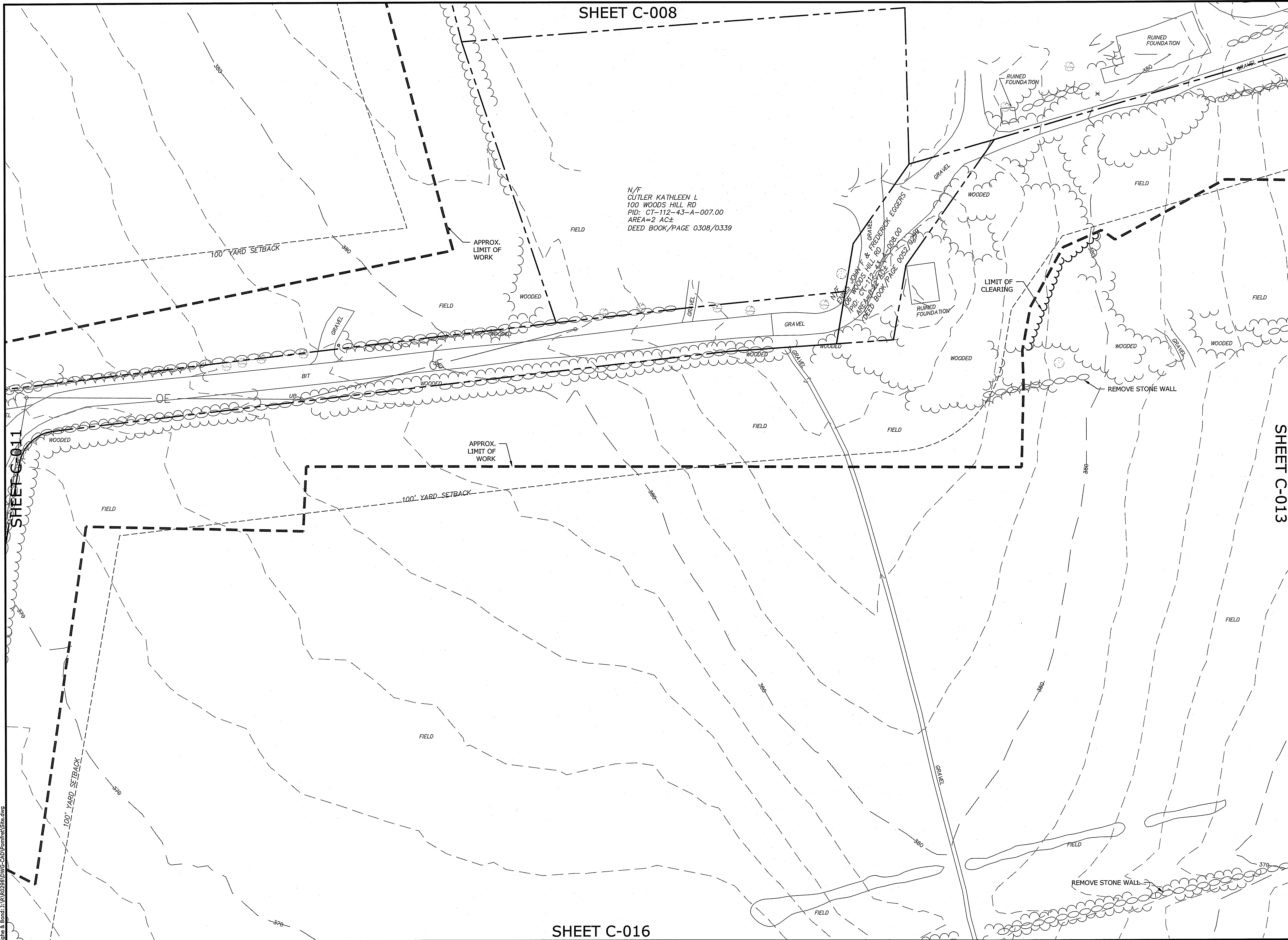
SHEET C-010

SHEET C-012

Last Saved: 3/20/2016 10:06am By: DGM  
Plotted On: Mar 30, 2016 1:06pm  
Tighe & Bond: \\K0298910\DWG-CAD\Projects\Site.dwg

N/F  
TYLER CHARLES H & WILLIAM F III  
90 WOODS HILL RD  
PID: CT-112-43-A-004.00  
AREA=113.6 AC±  
DEED BOOK/PAGE 0233/0175

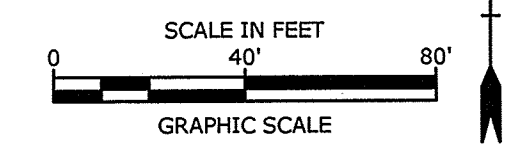




**Permit Set**  
**Woods Hill Solar Project**

Woods Hill Solar, LLC  
Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
0 1 INCH  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

EXISTING CONDITIONS AND DEMOLITION

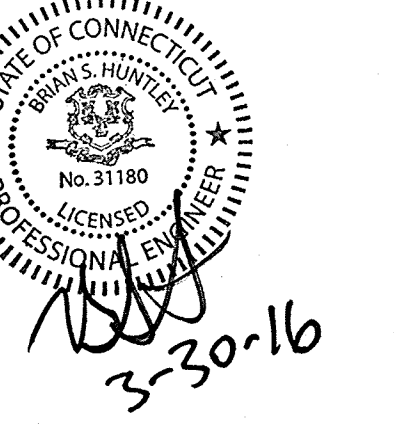
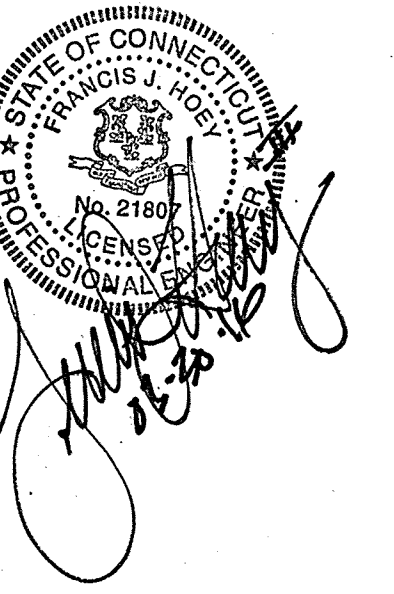
SCALE: 1" = 40'

**C-012**  
SHEET 14 OF 40

Last Saved: 3/30/2016  
 Plotted On: Mar 30, 2016 1:10:06pm By: DGM  
 Tighe & Bond, 100 Wood Hill Rd, Pomfret, CT 06255







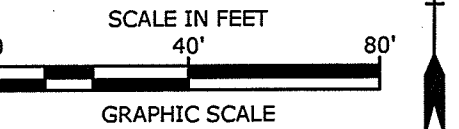
**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

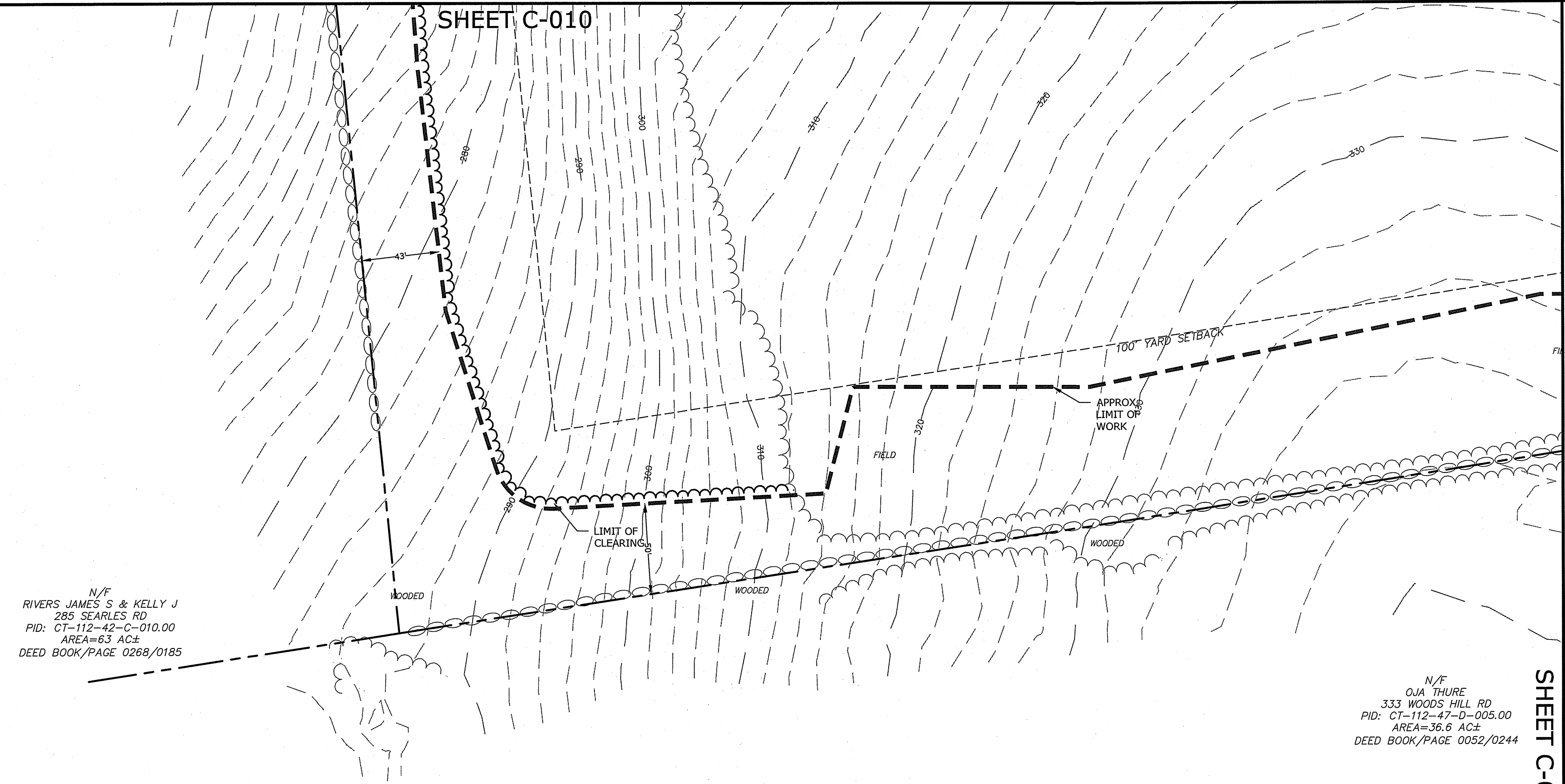


MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO: R-0298		
DATE: 2015/12/30		
FILE: Site.dwg		
DRAWN BY: DGM		
CHECKED: BA/BSH		
APPROVED: FJH		

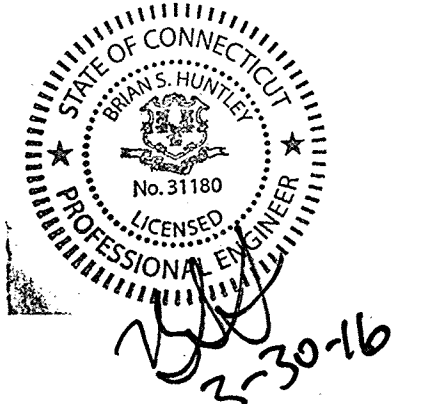
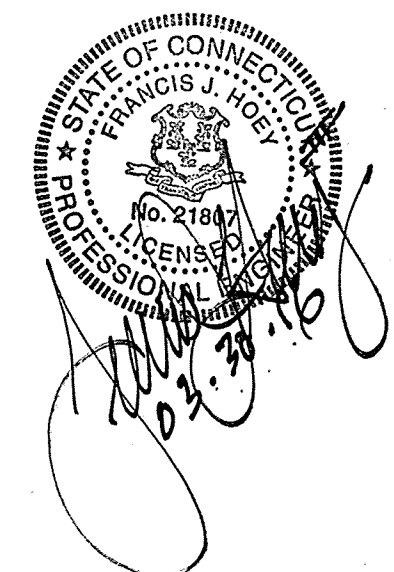
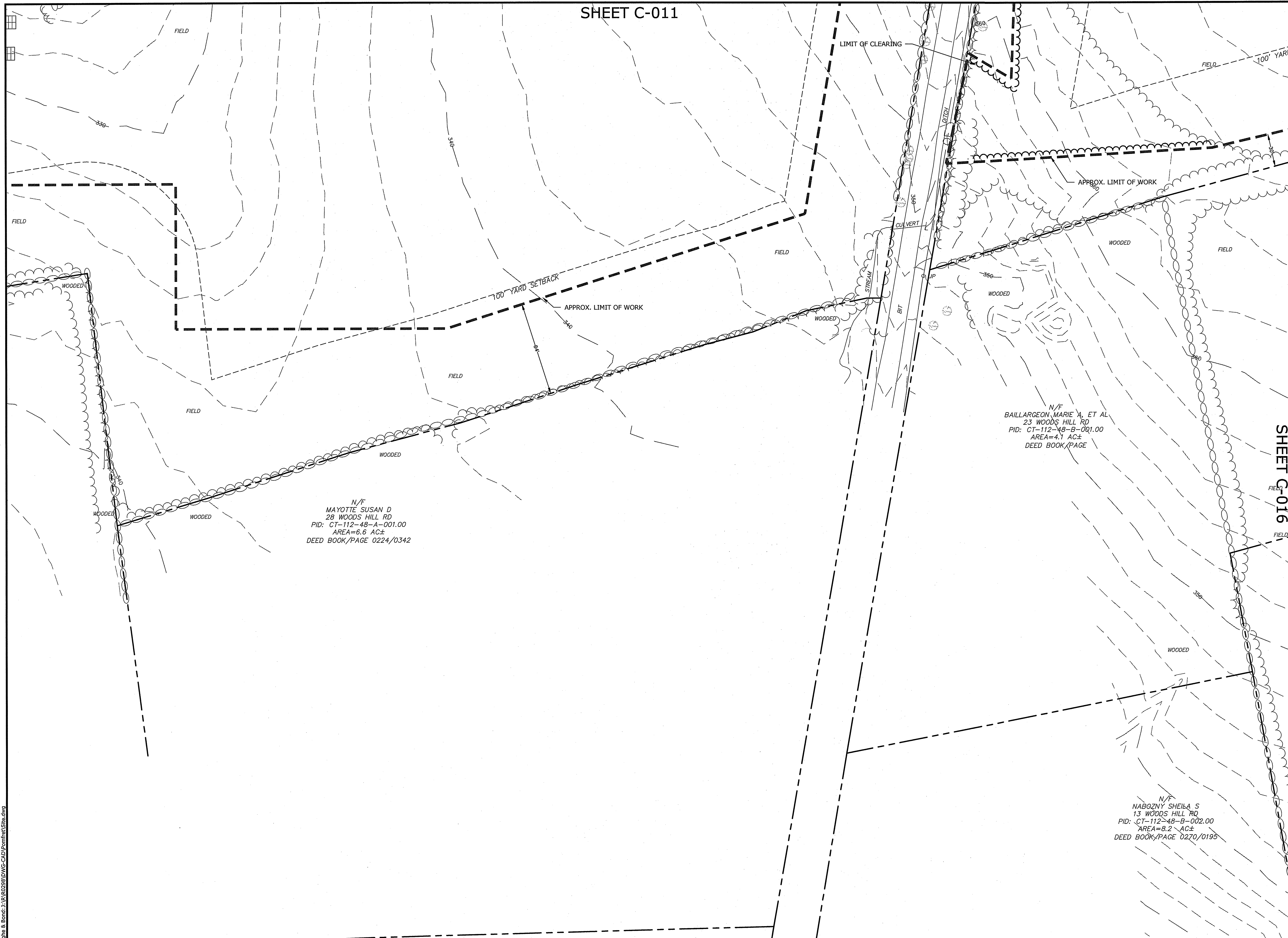
EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 40'

**C-014**  
SHEET 16 OF 40



**SHEET C-011**



SHEET C-016

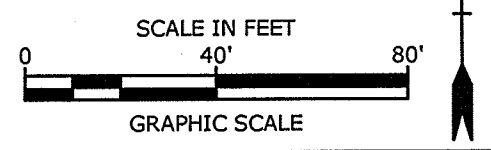
**Permit Set**

**Woods Hill Solar Project**

**Woods Hill Solar, LLC**

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



N/F  
MAYOTTE SUSAN D  
28 WOODS HILL RD  
PID: CT-112-48-A-001.00  
AREA=6.6 AC±  
DEED BOOK/PAGE 0224/0342

N/F  
BAILLARGEON, MARIE A, ET AL  
23 WOODS HILL RD  
PID: CT-112-48-B-001.00  
AREA=4.1 AC±  
DEED BOOK/PAGE

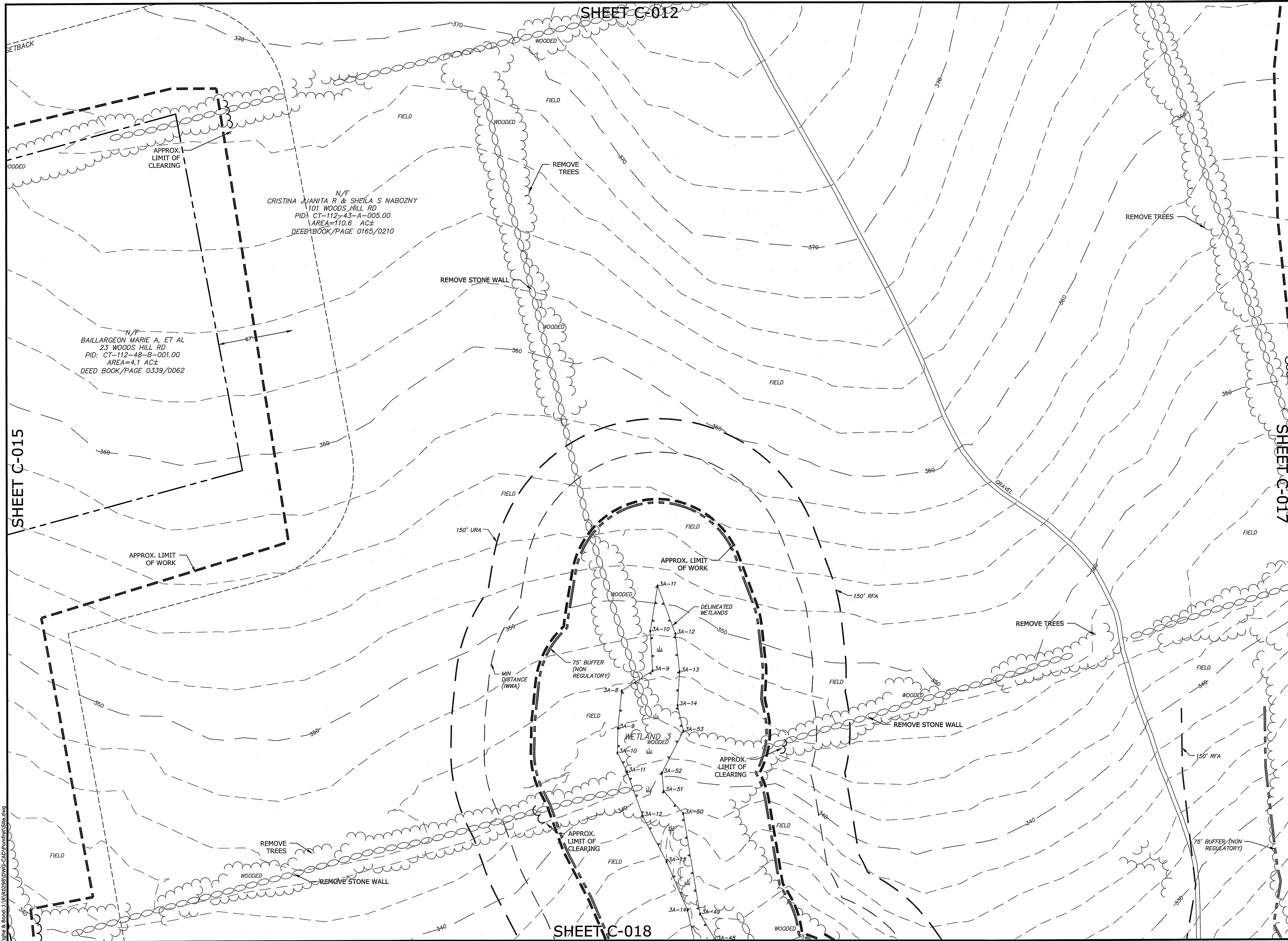
N/F  
NABOZNY SHEILA S  
13 WOODS HILL RD  
PID: CT-112-48-B-002.00  
AREA=8.2 AC±  
DEED BOOK/PAGE 0270/0195

1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 40'

**C-015**  
SHEET 17 OF 40



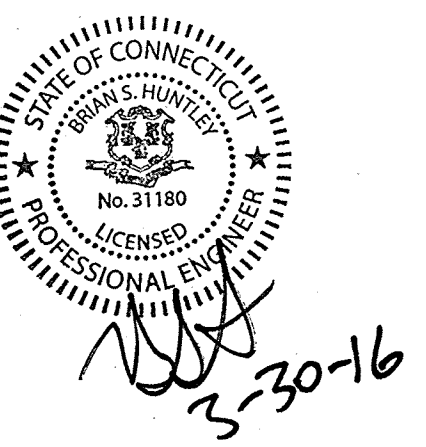
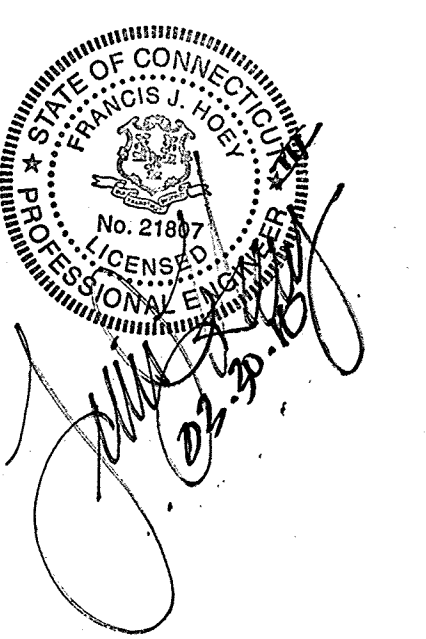
SHEET C-012

SHEET C-015

SHEET C-017

SHEET C-018

**Tighe & Bond**  
www.tighebond.com



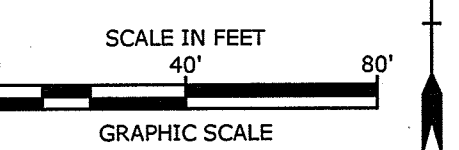
**Permit Set**

**Woods Hill Solar Project**

**Woods Hill Solar, LLC**

**Pomfret, Connecticut**

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO: R-0298		
DATE: 2015/12/30		
FILE: Site.dwg		
DRAWN BY: DGM		
CHECKED: BA/BSH		
APPROVED: FJM		

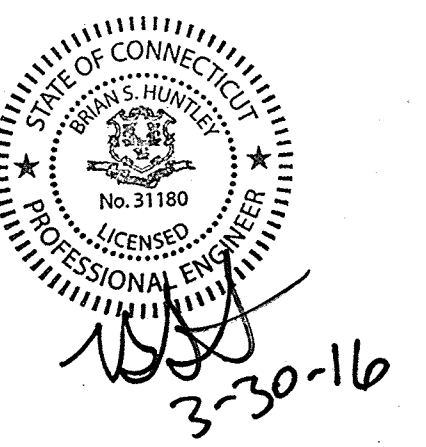
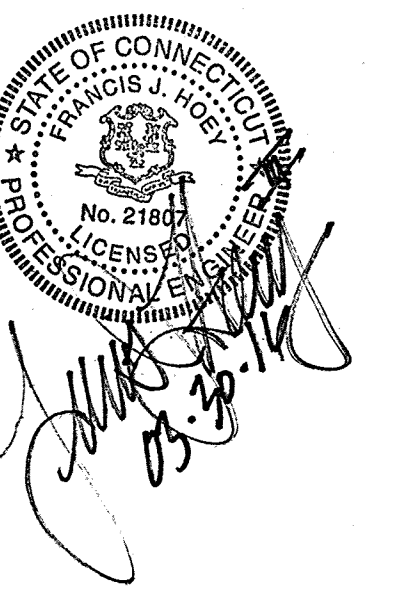
**EXISTING CONDITIONS AND DEMOLITION**

SCALE: 1" = 40'

**C-016**  
SHEET 18 OF 40

Last Saved: 3/24/2016 10:06pm By: DGM  
 Picked On: Mar 30, 2016 1:06pm By: DGM  
 Tighe & Bond: \\SR0298\DWG-CAD\Permits\Site.dwg





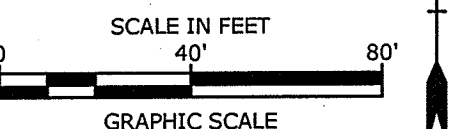
Permit Set

Woods Hill Solar Project

Woods Hill Solar, LLC

Pomfret, Connecticut

VERIFY SCALE  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 40'

C-017  
SHEET 19 OF 40

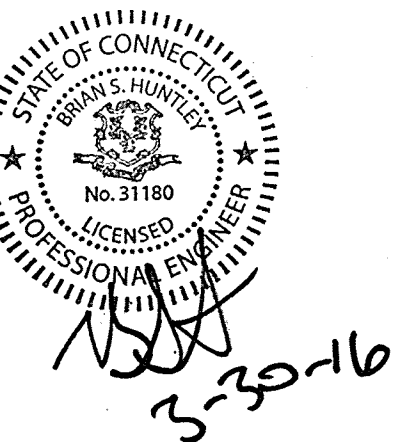
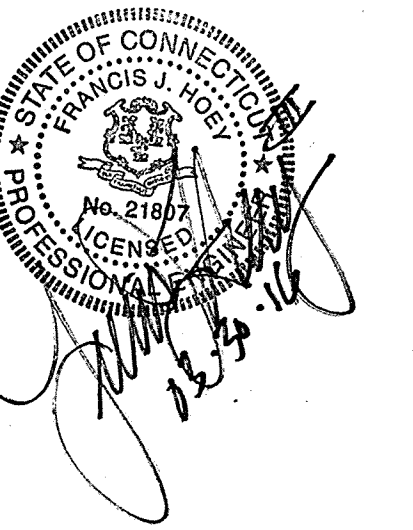


SHEET C-016

SHEET C-019

N/F  
ROCKY RIVER REALTY CO  
120 WOODS HILL RD  
PID: CT-112-43-A-006.00

Last Saved: 3/30/2016  
Plotted On: Mar 30, 2016 1:06pm By: DGM  
Tighe & Bond: J:\R\0298\DWG-CAD\pomfret\Site.dwg



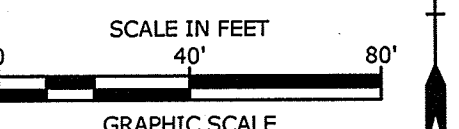
Permit Set

Woods Hill Solar Project

Woods Hill Solar, LLC

Pomfret, Connecticut

VERIFY SCALE  
BAR IS 1 INCH ON ORIGINAL DRAWING  
0 1 INCH  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

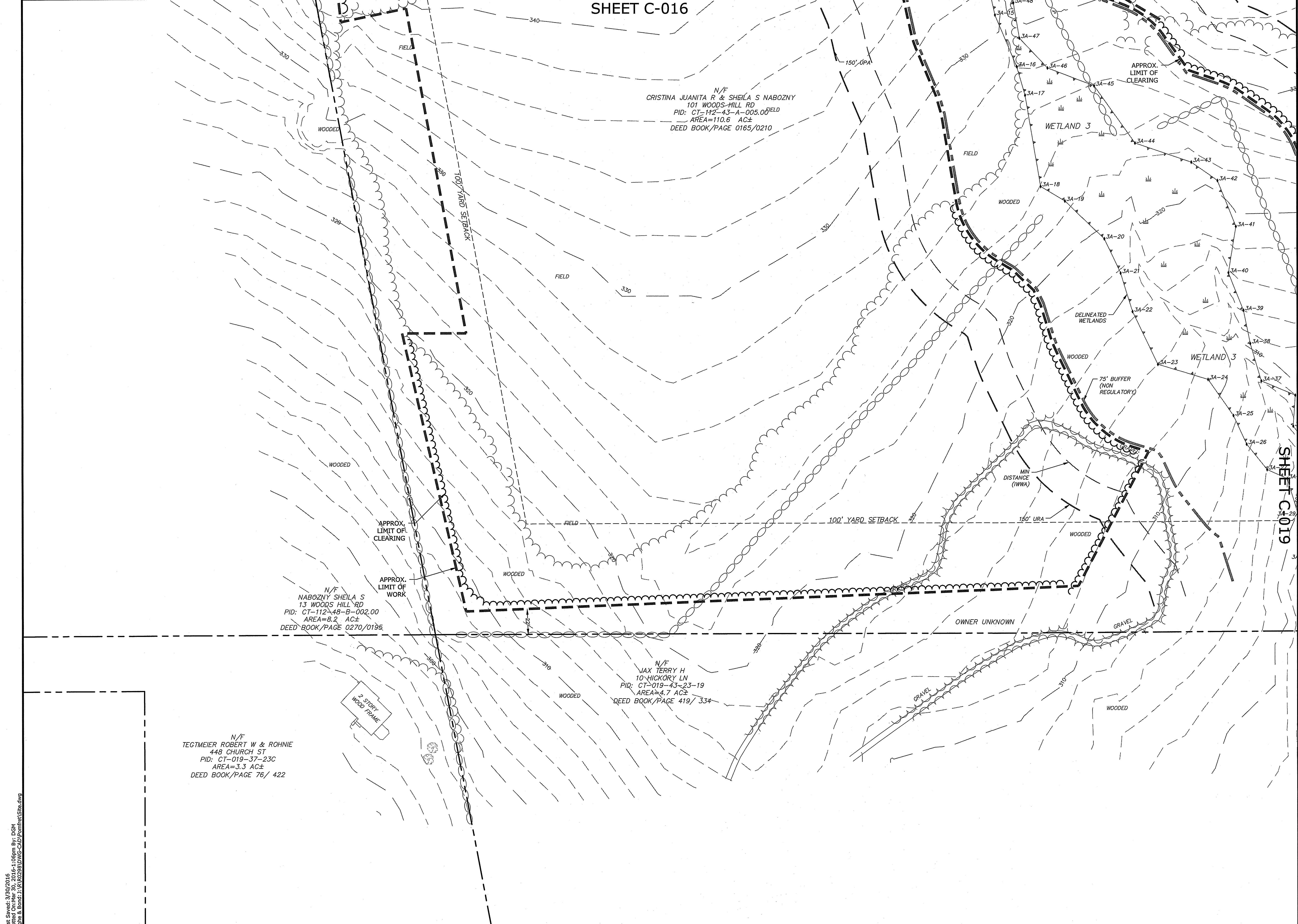


1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED BY:		BA/BSH
APPROVED:		FJH

EXISTING CONDITIONS AND DEMOLITION

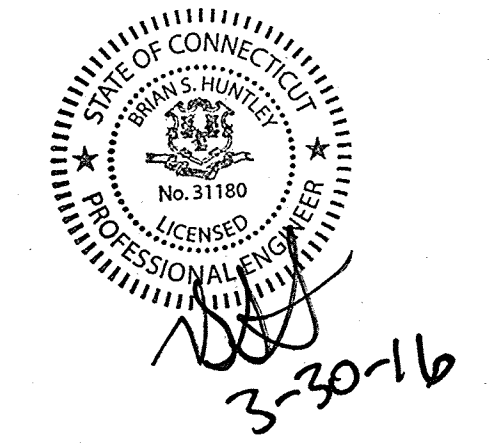
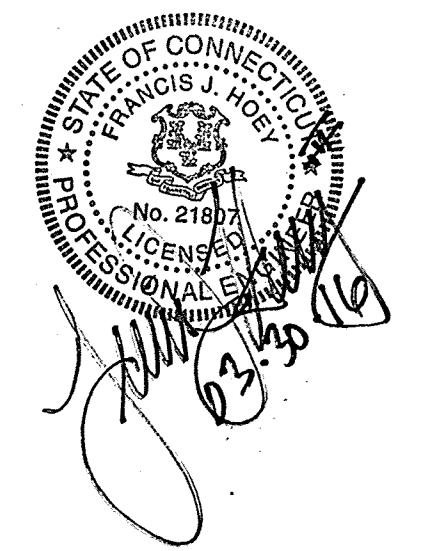
SCALE: 1" = 40'

C-018  
SHEET 20 OF 40



Last Saved: 3/30/2016  
Plotted On: Mar 30, 2016 1:06pm By: DGM  
Tighe & Bond: J:\2015\DWG-CAD\pomfret\Site.dwg





**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

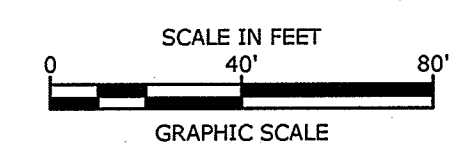
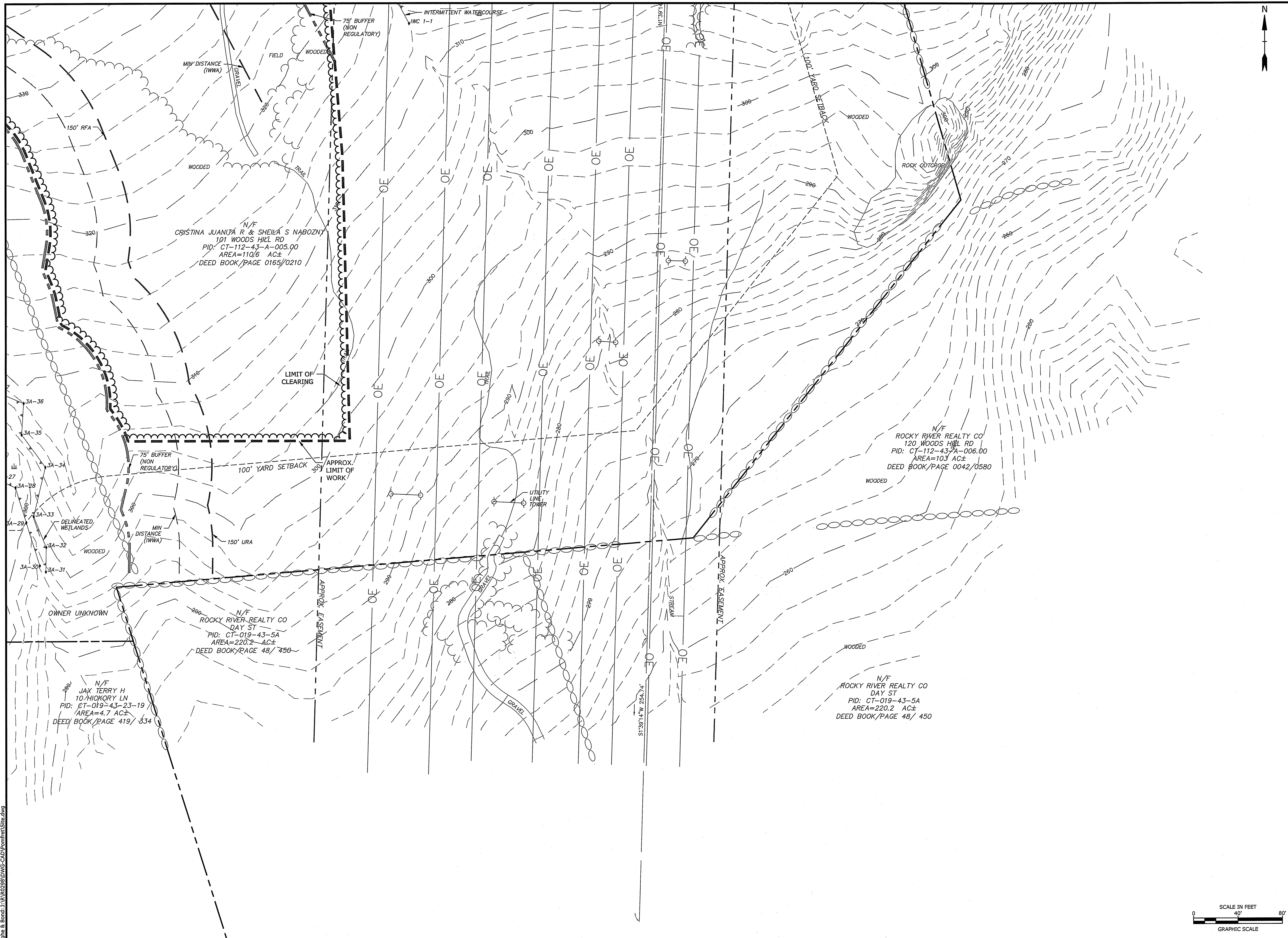
**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

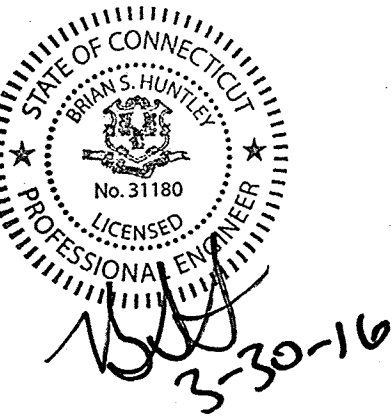
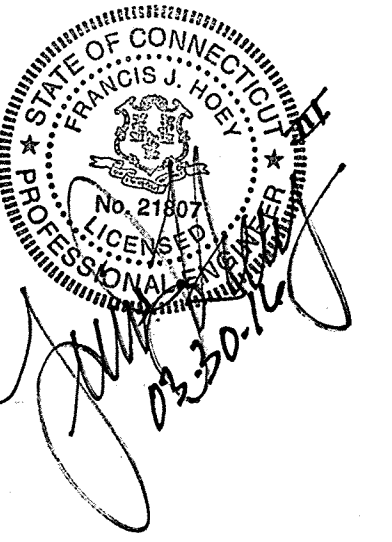
EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 40'

**C-019**  
SHEET 21 OF 40





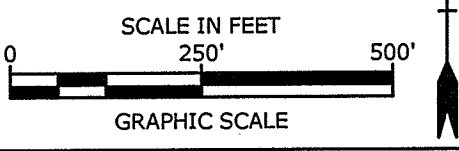


**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC  
Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
0 1 INCH  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
		PROJECT NO: R-0298
		DATE: 2015/12/30
		FILE: Site.dwg
		DRAWN BY: DGM
		CHECKED: BA/BSH
		APPROVED: FJH

**PROPOSE CONDITIONS - LARGE SCALE**

SCALE: 1" = 250'

**C-020**  
SHEET 22 OF 40

C-021

N/F  
ROGERS CORPORATION  
470 KILLINGLY RD  
PID: CT-112-43-A-001.00  
AREA=38 AC±  
DEED BOOK/PAGE 0033/0071

POINT OF INTERCONNECTION

SWITCHGEAR PAD

N/F  
RIDGEWOOD FARM LLC  
155 SEARLES RD  
PID: CT-112-42-C-002.01  
AREA=124 AC±  
DEED BOOK/PAGE 0287/0279, PCL A-2  
MAP NOS. 480-484

N/F  
RIDGEWOOD FARM LLC  
155 SEARLES RD  
PID: CT-112-42-C-002.01  
AREA=24 AC±  
DEED BOOK/PAGE 0287/0279, PCL A-2  
MAP NOS. 480-484

C-022

C-024

EQUIPMENT PAD (TYP)

LIMIT OF WORK

C-025

C-026

C-027

C-028

N/F  
RIDGEWOOD FARM LLC  
195 SEARLES RD  
PID: CT-112-42-C-007.00  
AREA=52 AC±  
DEED BOOK/PAGE 0287/0280, PCL A-2  
MAP NOS. 480-484

N/F  
CUTLER KATHLEEN L  
100 WOODS HILL RD  
PID: CT-112-43-A-007.00  
AREA=2 AC±  
DEED BOOK/PAGE 0308/0339

N/F  
ENNIS JOHN F & FREDERICK EGGERS  
106 WOODS HILL RD  
PID: CT-112-43-A-008.00  
AREA=0.22 AC±  
DEED BOOK/PAGE 0308/0339

N/F  
ROCKY RIVER REALTY CO  
120 WOODS HILL RD  
PID: CT-112-43-A-006.00  
AREA=103 AC±  
DEED BOOK/PAGE 0042/0580

C-029

C-030

C-031

C-032

LIMIT OF WORK

N/F  
RIVERS JAMES S & KELLY J  
285 SEARLES RD  
PID: CT-112-42-C-010.00  
AREA=63 AC±  
DEED BOOK/PAGE 0268/0185

C-033

C-034

C-035

C-036

EROSION CONTROL

N/F  
OJA THURE  
333 WOODS HILL RD  
PID: CT-112-47-D-005.00  
AREA=36.6 AC±  
DEED BOOK/PAGE 0052/0244

N/F  
MAYOTTE SUSAN D  
28 WOODS HILL RD  
PID: CT-112-48-A-001.00  
AREA=6.6 AC±  
DEED BOOK/PAGE 0224/0342

N/F  
MABOZNY SHEILA  
43 WOODS HILL RD  
PID: CT-112-48-B-001.00  
AREA=8.2 AC±  
DEED BOOK/PAGE 0270/0195

N/F  
ROCKY RIVER REALTY CO  
120 WOODS HILL RD  
PID: CT-112-43-A-006.00  
AREA=103 AC±  
DEED BOOK/PAGE 0042/0580

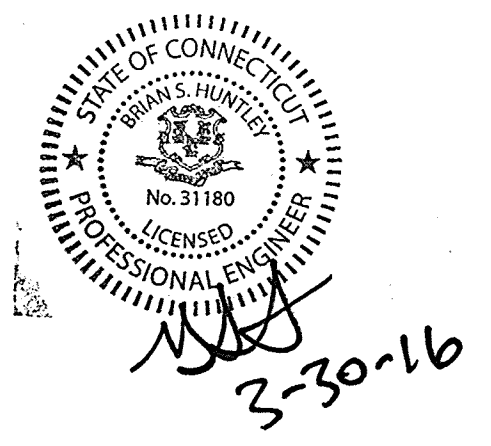
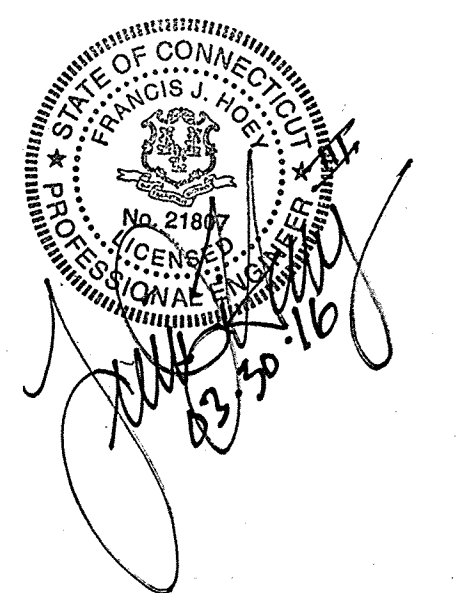
N/F  
TEGMEIER ROBERT W & ROHNE  
448 CHURCH ST  
PID: CT-019-37-23C  
AREA=3.3 AC±  
DEED BOOK/PAGE 176/422

N/F  
LAX TERRY H  
10 HICKORY LN  
PID: CT-019-43-23-19  
AREA=4.7 AC±  
DEED BOOK/PAGE 419/334

N/F  
ROCKY RIVER REALTY CO  
DAY ST  
PID: CT-019-43-5A  
AREA=220.2 AC±  
DEED BOOK/PAGE 48/450

Last Saved: 03/24/2016 6:42:59pm By: DGM  
 Tighe & Bond: J:\R0298\DWG\CAD\Pomfret\Site.dwg



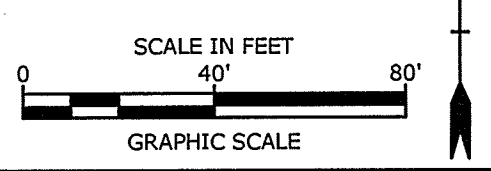


**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC  
Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE

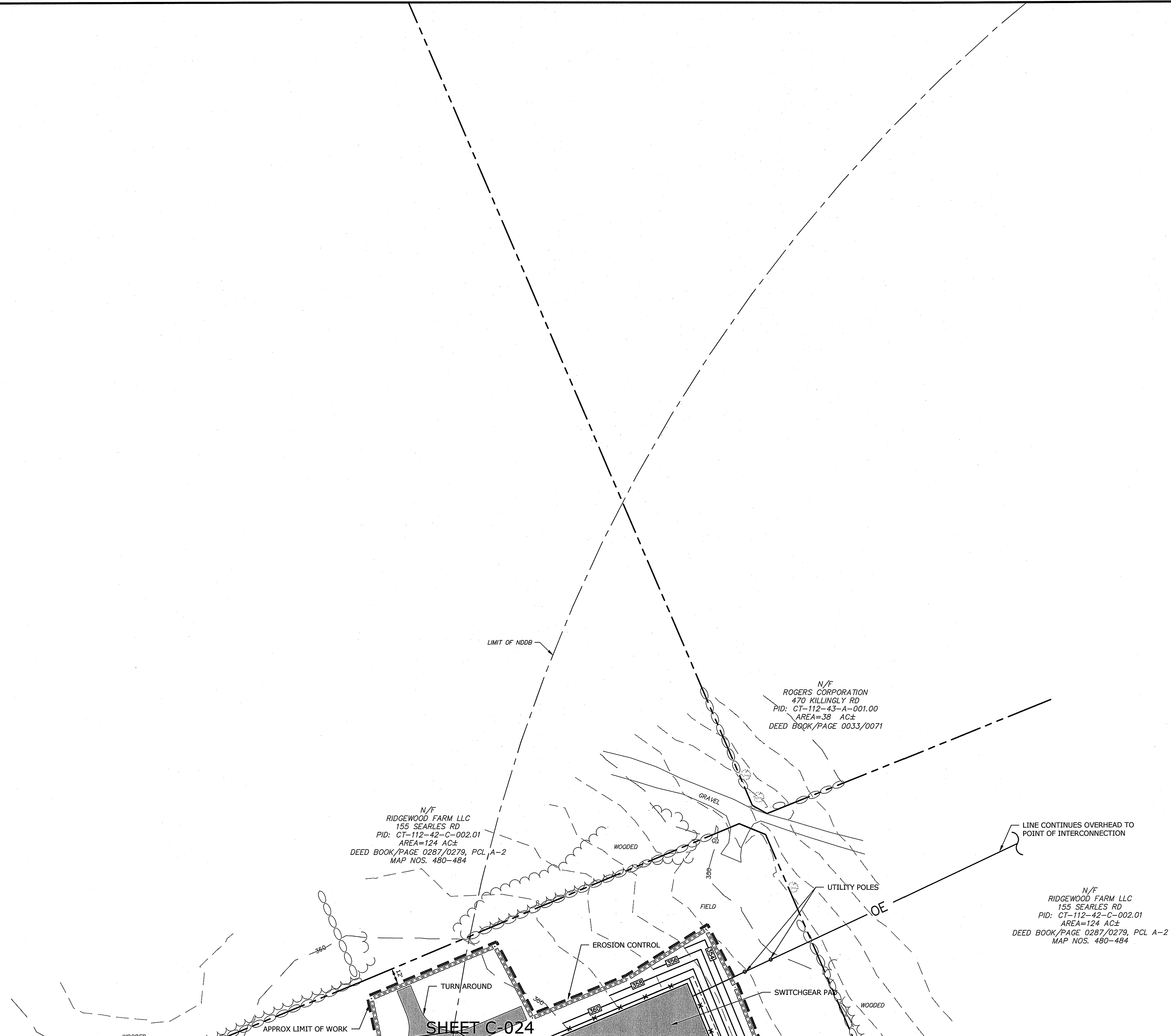
PROJECT NO: R-0298  
DATE: 2015/12/30  
FILE: Site.dwg  
DRAWN BY: DGM  
CHECKED: BA/BSH  
APPROVED: FJH

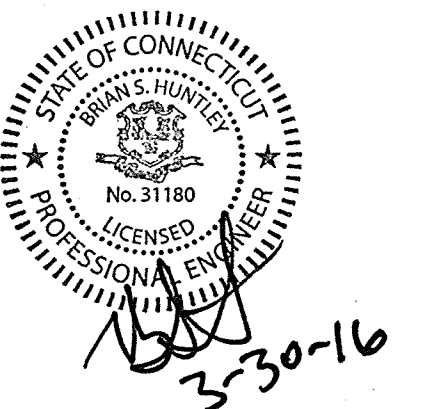
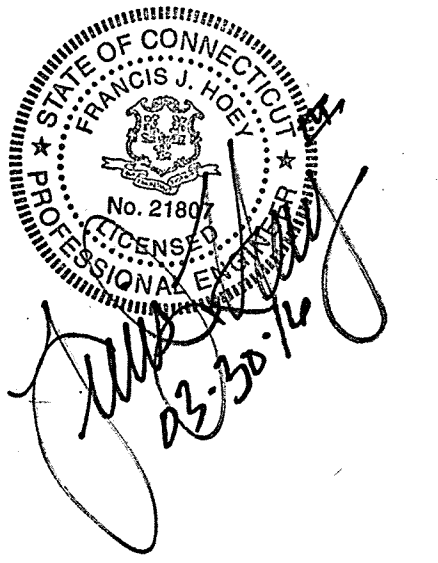
**PROPOSED CONDITIONS**

SCALE: 1" = 40'

**C-021**  
SHEET 23 OF 40

Last Saved: 3/30/2016 11:07am By: DGM  
Plotted On: Mar 30, 2016 1:07pm  
Tighe & Bond: J:\Projects\1515\1515-1230\DWG-CAD\PermitSet.dwg





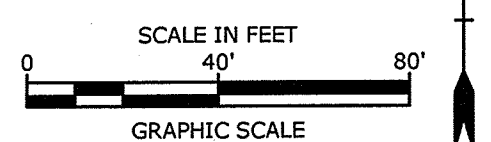
**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



SHEET C-023

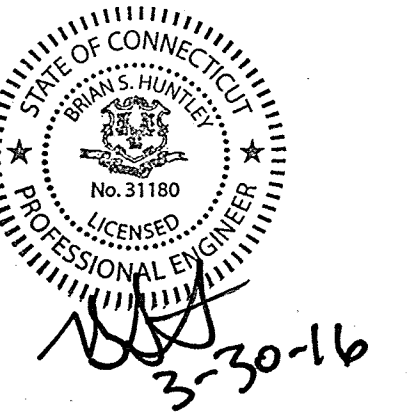
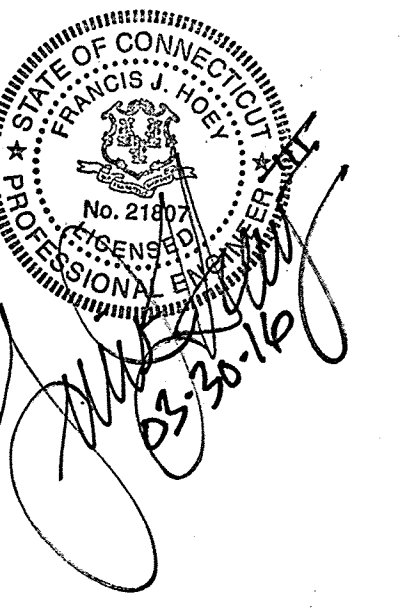
N/F  
RIDGEWOOD FARM LLC  
155 SEARLES RD  
PID: CT-112-42-C-002.01  
AREA=124 AC±  
DEED BOOK/PAGE 0287/0279, PCL A-2  
MAP NOS. 480-484

N/F  
RIDGEWOOD FARM LLC  
195 SEARLES RD  
PID: CT-112-42-C-007.00  
AREA=52 AC±  
DEED BOOK/PAGE 0287/0280, PCL C  
MAP NOS. 480-484

**SHEET C-025**

Last Saved: 3/30/2016 1:07pm By: DGM  
Plotted On: Mar 30, 2016 1:07pm  
Tighe & Bond: J:\R\0298\DWG-CAD\PermitSet.dwg

MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO: R-0298		
DATE: 2015/12/30		
FILE: Site.dwg		
DRAWN BY: DGM		
CHECKED: BA/BSH		
APPROVED: FJH		
<b>PROPOSED CONDITIONS</b>		
SCALE:		1" = 40'
<b>C-022</b> SHEET 24 OF 40		



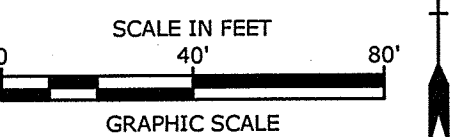
**Permit Set**

**Woods Hill Solar Project**

**Woods Hill Solar, LLC**

**Pomfret, Connecticut**

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO: R-0298		
DATE: 2015/12/30		
FILE: Site.dwg		
DRAWN BY: DGM		
CHECKED: BA/BSH		
APPROVED: FJH		

**PROPOSED CONDITIONS**

SCALE: 1" = 40'

**C-023**  
SHEET 25 OF 40

N/F  
RIDGEWOOD FARM LLC  
155 SEARLES RD  
PID: CT-112-42-C-002.01  
AREA=124 AC±  
DEED BOOK/PAGE 0287/0279, PCL A-2  
MAP NOS. 480-484

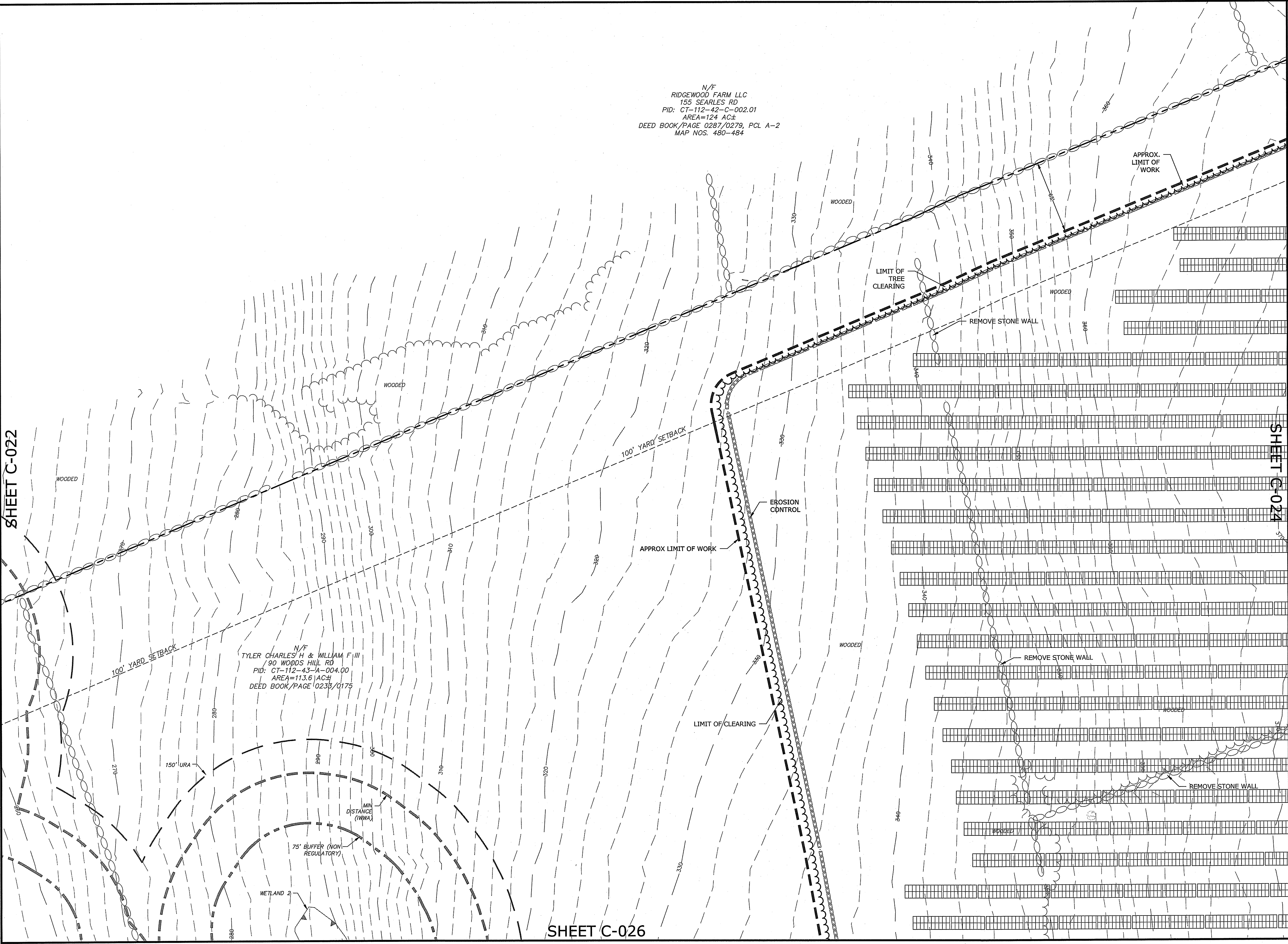
N/F  
TYLER CHARLES H & WILLIAM F III  
90 WOODS HILL RD  
PID: CT-112-43-A-004.00  
AREA=113.6 AC±  
DEED BOOK/PAGE 0235/0175

**SHEET C-026**

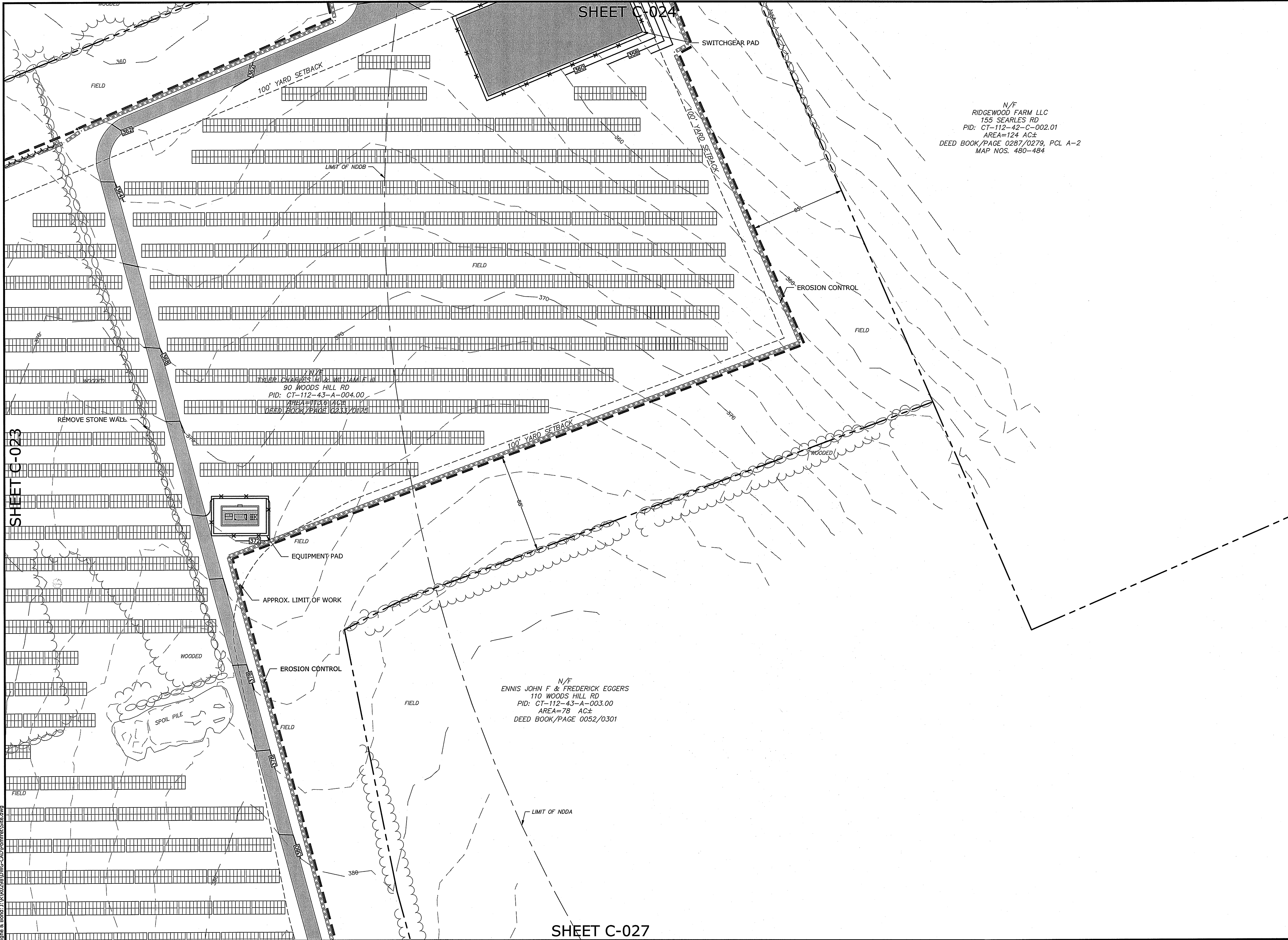
**SHEET C-022**

**SHEET C-024**

Last Saved: 3/30/2016  
 Plotted On: Mar 30, 2016 1:07pm By: DGM  
 Tighe & Bond: J:\R\0298\DWG-CAD\Pomfret\Site.dwg







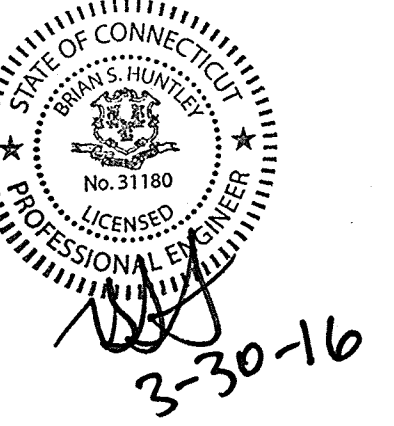
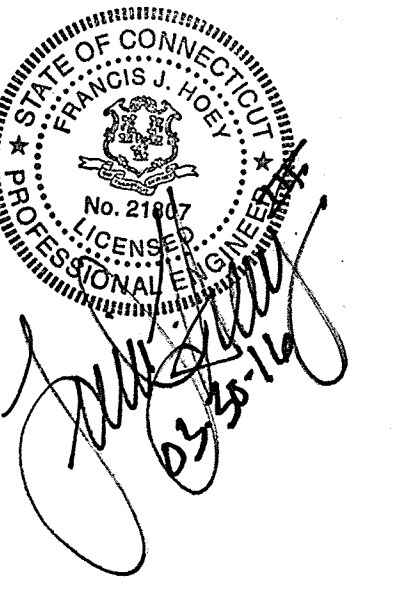
N/F  
 RIDGEWOOD FARM LLC  
 155 SEARLES RD  
 PID: CT-112-42-C-002.01  
 AREA=124 AC±  
 DEED BOOK/PAGE 0287/0279, PCL A-2  
 MAP NOS. 480-484

N/F  
 TYLER CHARLES JR & WILLIAM F III  
 90 WOODS HILL RD  
 PID: CT-112-43-A-004.00  
 AREA=113.0 AC±  
 DEED BOOK/PAGE 0233/0126

N/F  
 ENNIS JOHN F & FREDERICK EGGERS  
 110 WOODS HILL RD  
 PID: CT-112-43-A-003.00  
 AREA=78 AC±  
 DEED BOOK/PAGE 0052/0301

SHEET C-023

SHEET C-027



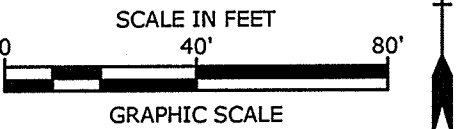
**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
 BAR IS 1 INCH ON ORIGINAL DRAWING  
 0 1 INCH  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



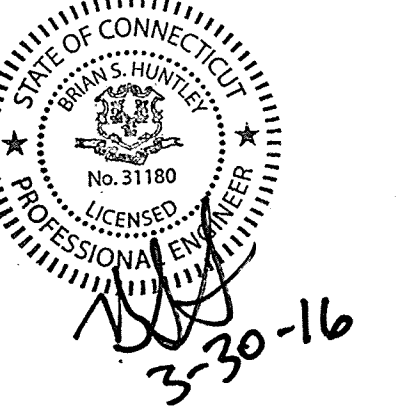
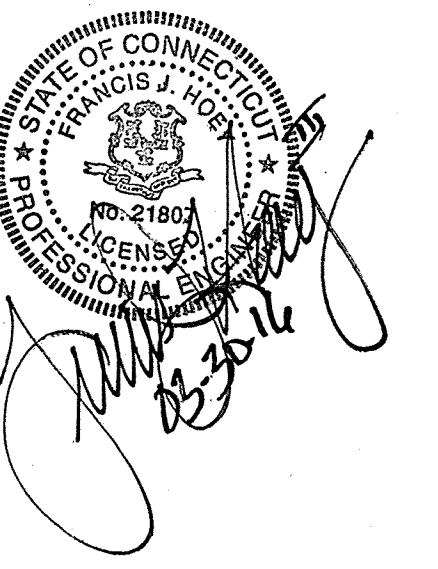
MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO: R-0298		
DATE: 2015/12/30		
FILE: Site.dwg		
DRAWN BY: DGM		
CHECKED: BA/BSH		
APPROVED: FJH		

PROPOSED CONDITIONS

SCALE: 1" = 40'

**C-024**  
 SHEET 26 OF 40

Last Saved: 3/20/2016 4:07pm By: DGM  
 Plotted On: Mar 20, 2016 4:07pm  
 Tighe & Bond: J:\R0298\DWG-CAD\Pomfret\Site.dwg



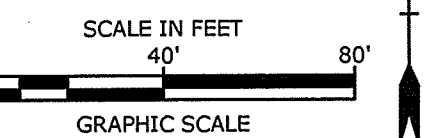
Permit Set

Woods Hill  
Solar Project

Woods Hill  
Solar, LLC

Pomfret,  
Connecticut

VERIFY SCALE  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

PROPOSED CONDITIONS

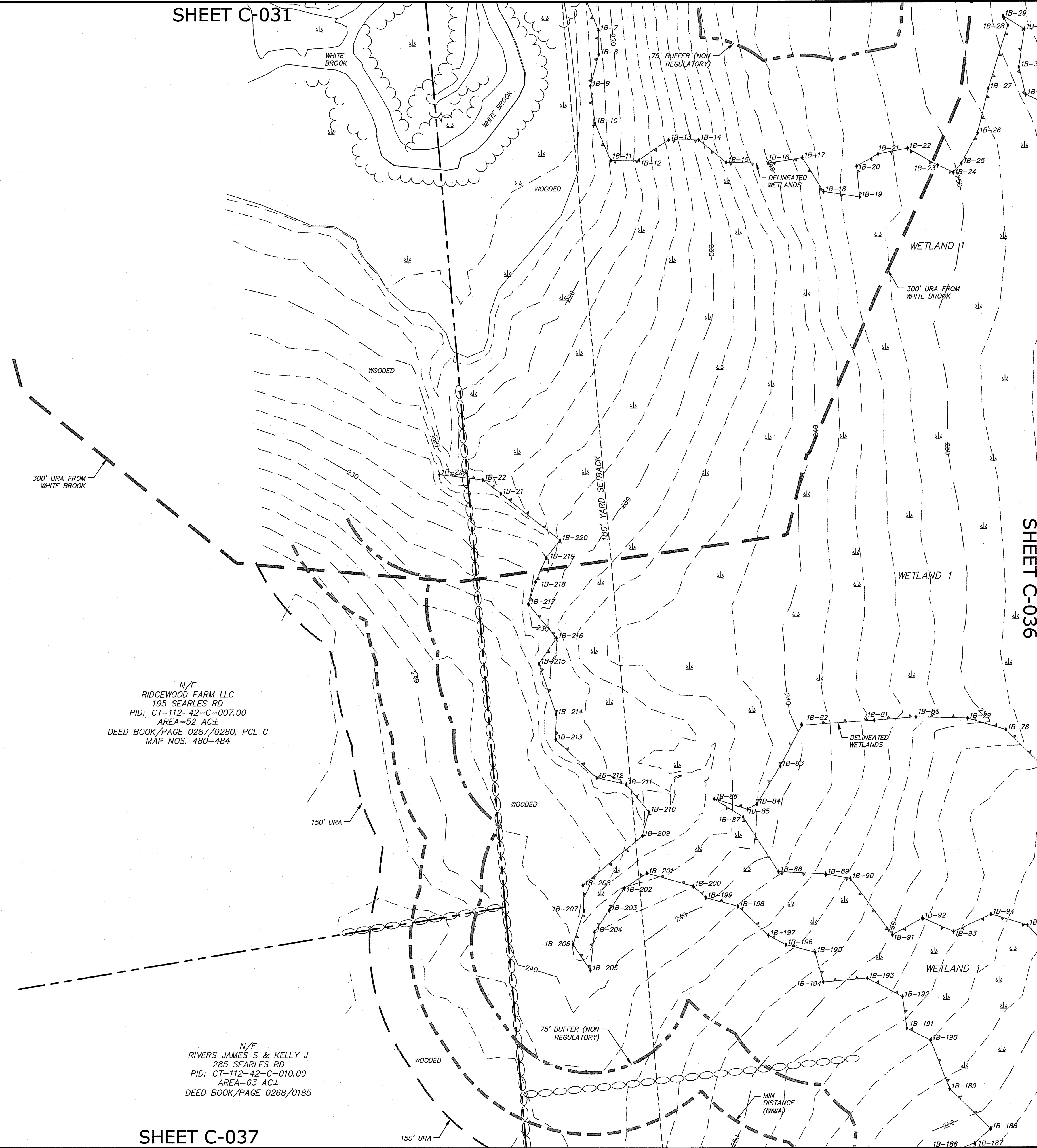
SCALE: 1" = 40'

C-025  
SHEET 27 OF 40

SHEET C-034

SHEET C-036

SHEET C-037

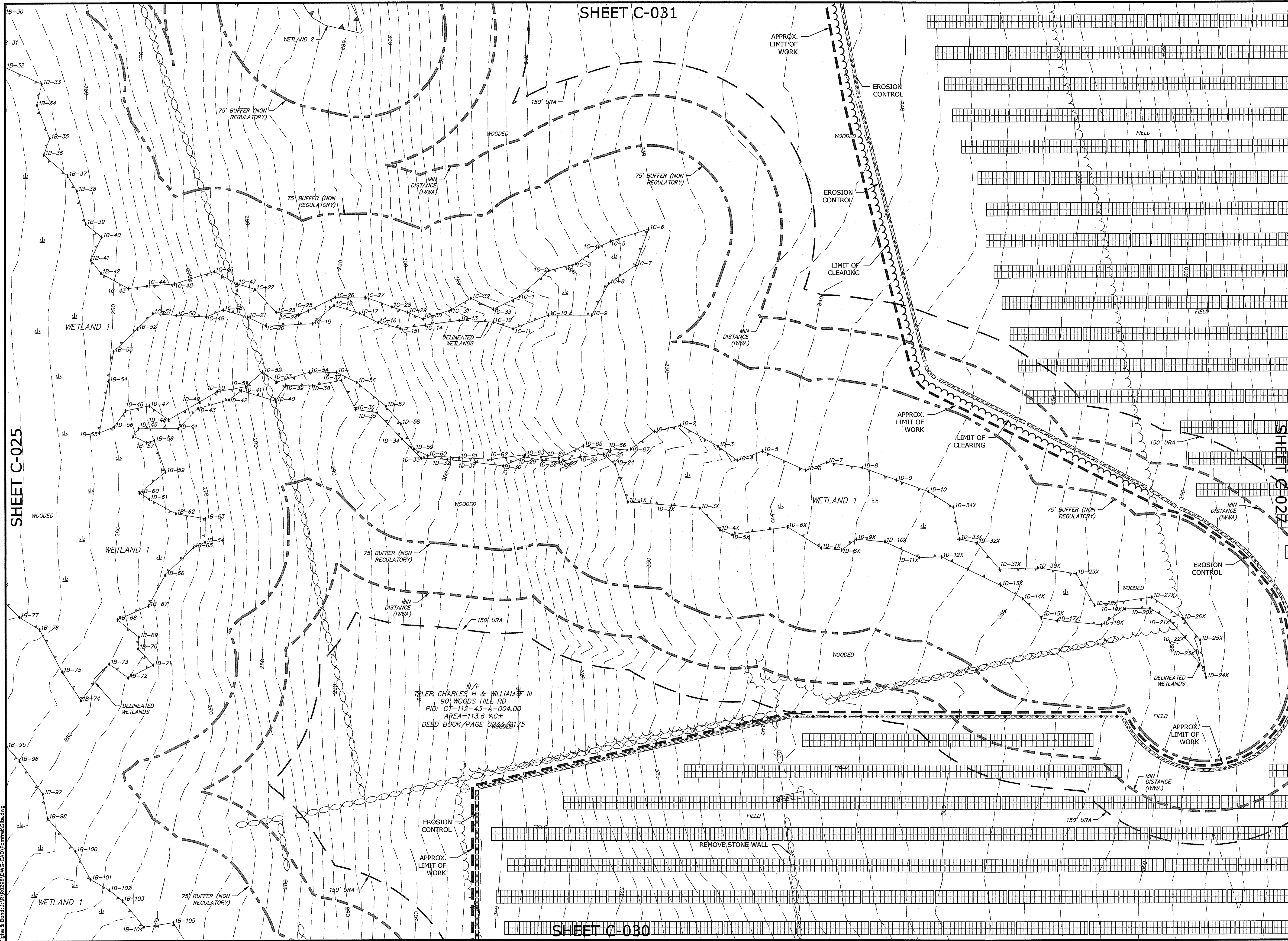
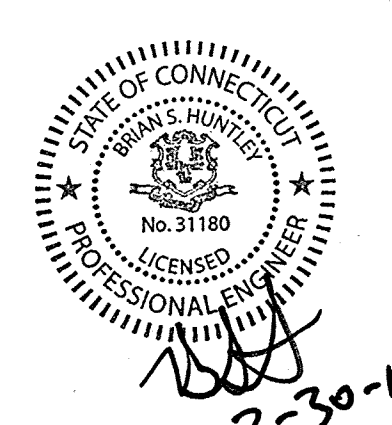
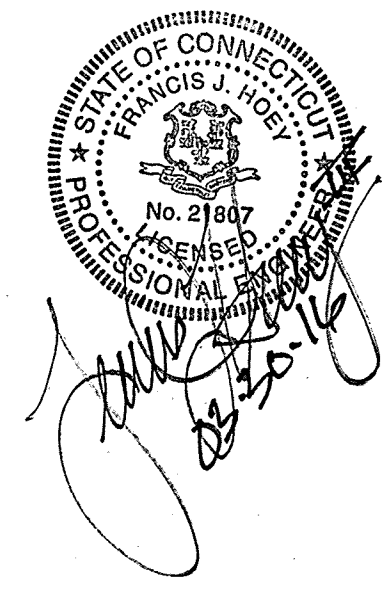


N/F  
 RIDGEWOOD FARM LLC  
 195 SEARLES RD  
 PID: CT-112-42-C-007.00  
 AREA=52 AC±  
 DEED BOOK/PAGE 0287/0280, PCL C  
 MAP NOS. 480-484

N/F  
 RIVERS JAMES S & KELLY J  
 285 SEARLES RD  
 PID: CT-112-42-C-010.00  
 AREA=63 AC±  
 DEED BOOK/PAGE 0268/0185

Last Saved: 3/20/2016 10:07pm By: DGM  
Plotted On: Mar 30, 2016 1:07pm  
Tighe & Bond: \\NAK0259\DWG-CAD\Permits\Site.dwg





SHEET C-025

SHEET C-026

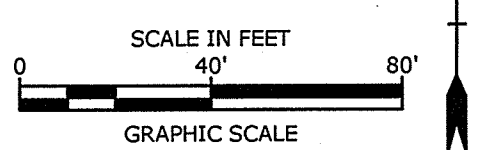
SHEET C-030

Permit Set

Woods Hill Solar Project

Woods Hill Solar, LLC  
Pomfret, Connecticut

VERIFY SCALE  
BAR IS 1 INCH ON ORIGINAL DRAWING  
0 = 1 INCH  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO:	R-0298	
DATE:	2015/12/30	
FILE:	Site.dwg	
DRAWN BY:	DGM	
CHECKED:	BA/BSH	
APPROVED:	FJH	

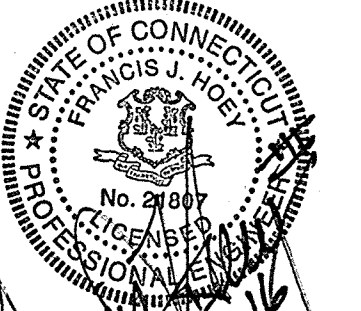
PROPOSED CONDITIONS

SCALE: 1" = 40'

C-026  
SHEET 28 OF 40

Last Saved: 3/30/2016 11:07:10 AM By: DCM  
Plotted On: 3/30/2016 11:07:10 AM  
Tighe & Bond, 225 Main Street, Pomfret, CT 06259





*[Signature]*  
03-30-16



*[Signature]*  
3-30-16

SHEET C-028

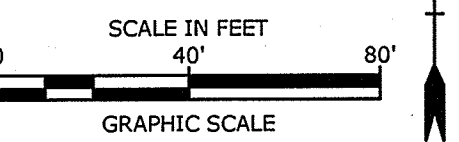
**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



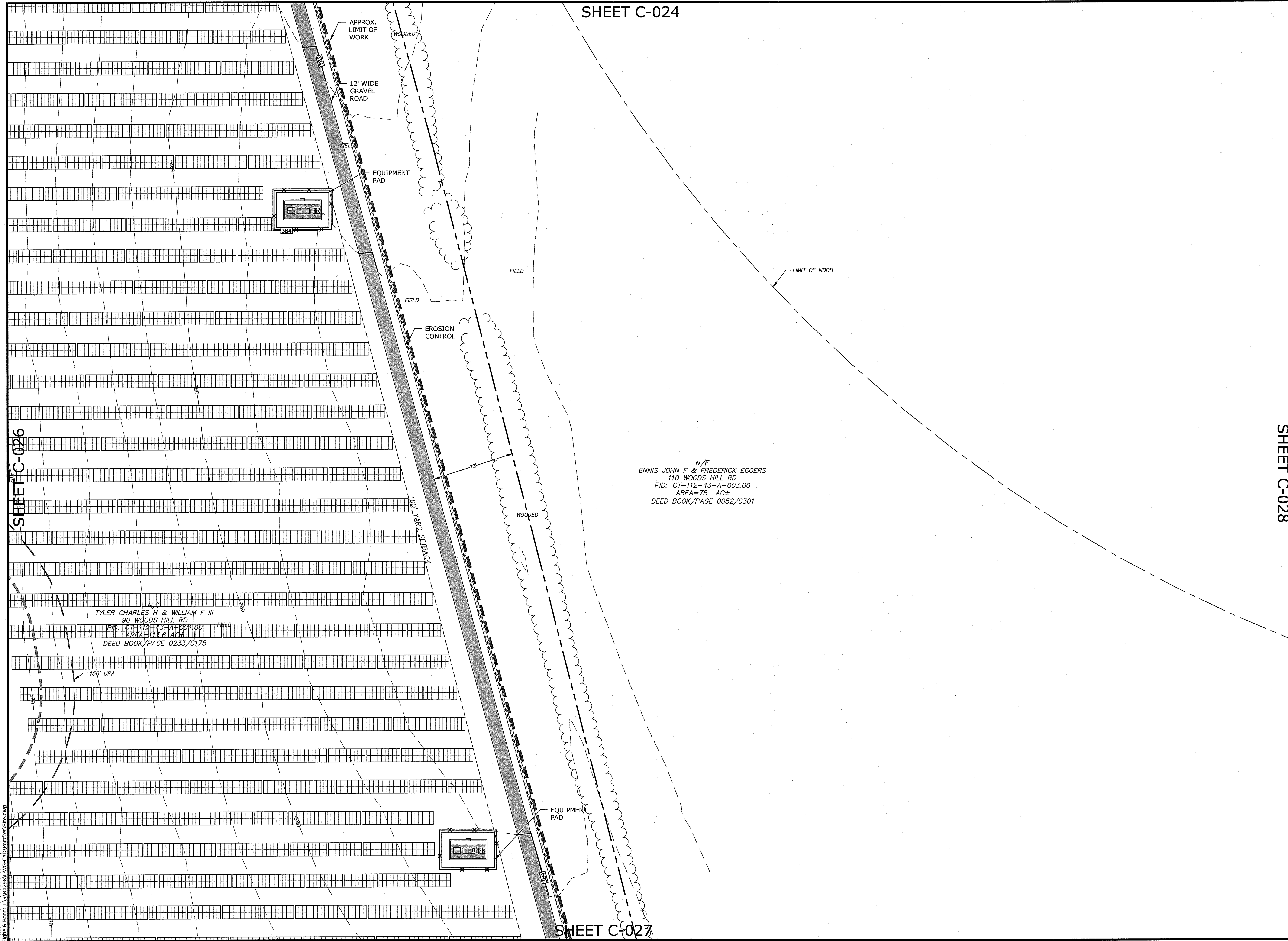
N/F  
ENNIS JOHN F & FREDERICK EGGERS  
110 WOODS HILL RD  
PID: CT-112-43-A-003.00  
AREA=78 AC±  
DEED BOOK/PAGE 0052/0301

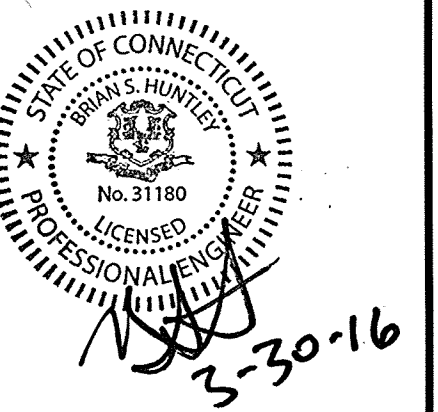
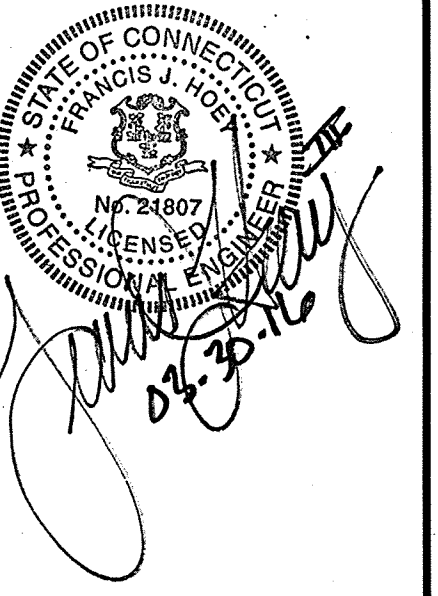
N/F  
TYLER CHARLES H & WILLIAM F III  
90 WOODS HILL RD  
PID: CT-112-43-A-004.00  
AREA=1316 AC±  
DEED BOOK/PAGE 0233/0175

SHEET C-026

SHEET C-027

Plot Date: 3/30/2016 11:08pm By: DGM  
Tighe & Bond; 31160298(DWG-CAD) Pomfret Site.dwg





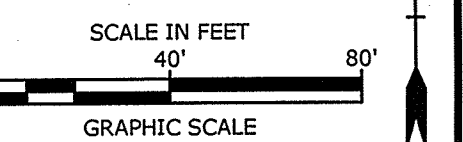
**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO: R-0298		
DATE: 2015/12/30		
FILE: Site.dwg		
DRAWN BY: DGM		
CHECKED: BA/BSH		
APPROVED: FJH		

**PROPOSED CONDITIONS**

SCALE: 1" = 40'

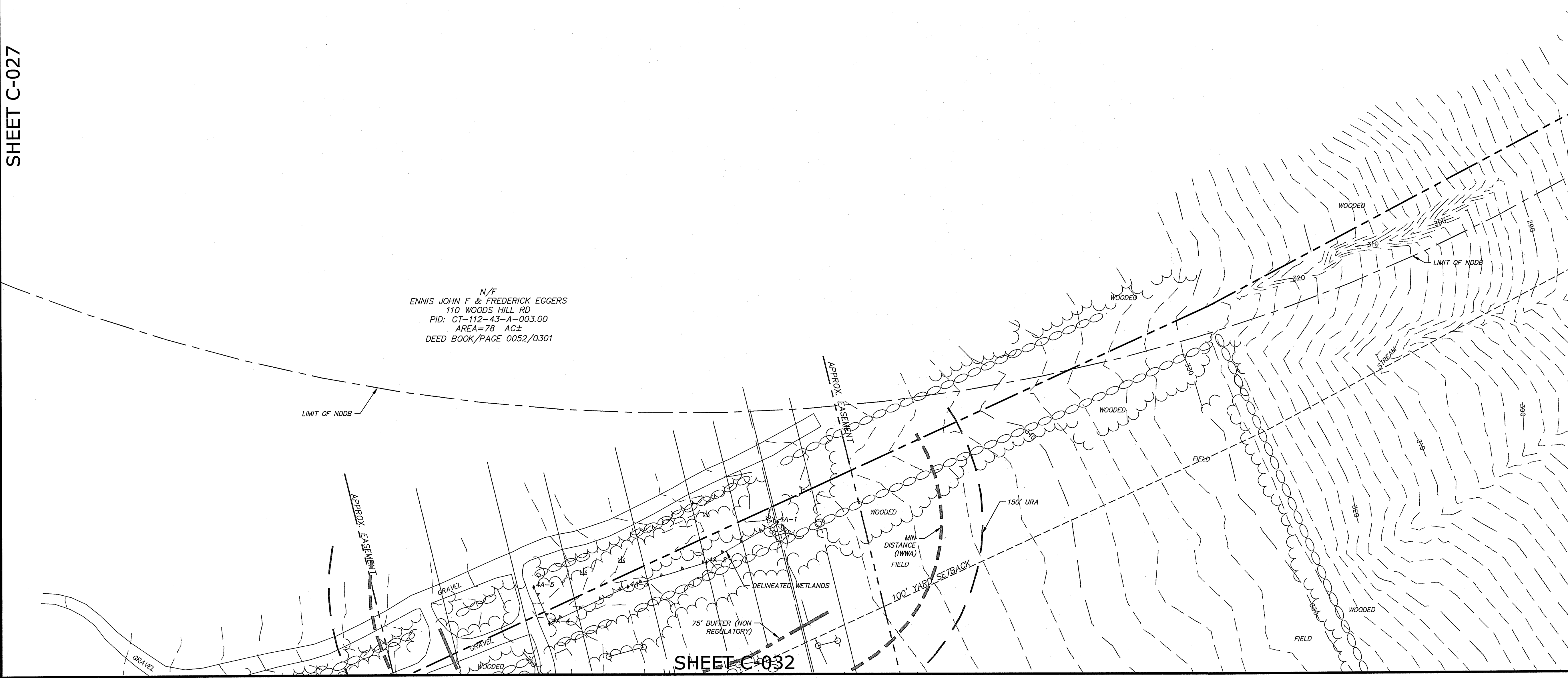
**C-028**  
SHEET 30 OF 40

SHEET C-027

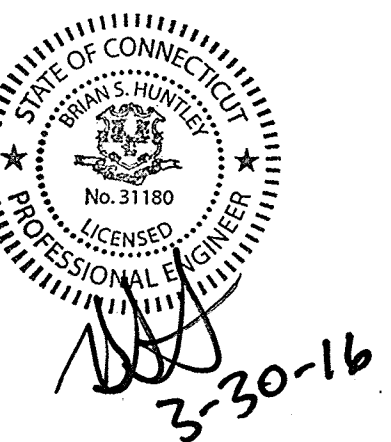
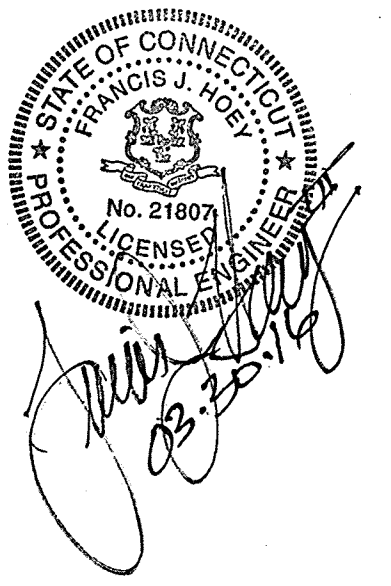
Last Saved: 3/30/2016 10:08:11 AM  
Plotted On: Mar 30, 2016 1:08:00 PM  
Tighe & Bond: J:\R\0298\DWG-CAD\PermitSet\Site.dwg

N/F  
ENNIS JOHN F & FREDERICK EGGERS  
110 WOODS HILL RD  
PID: CT-112-43-A-003.00  
AREA=78 AC±  
DEED BOOK/PAGE 0052/0301

**SHEET C-032**







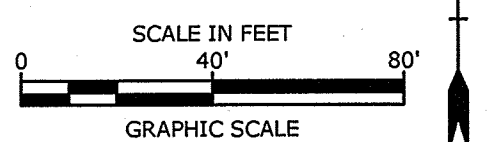
Permit Set

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

VERIFY SCALE  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

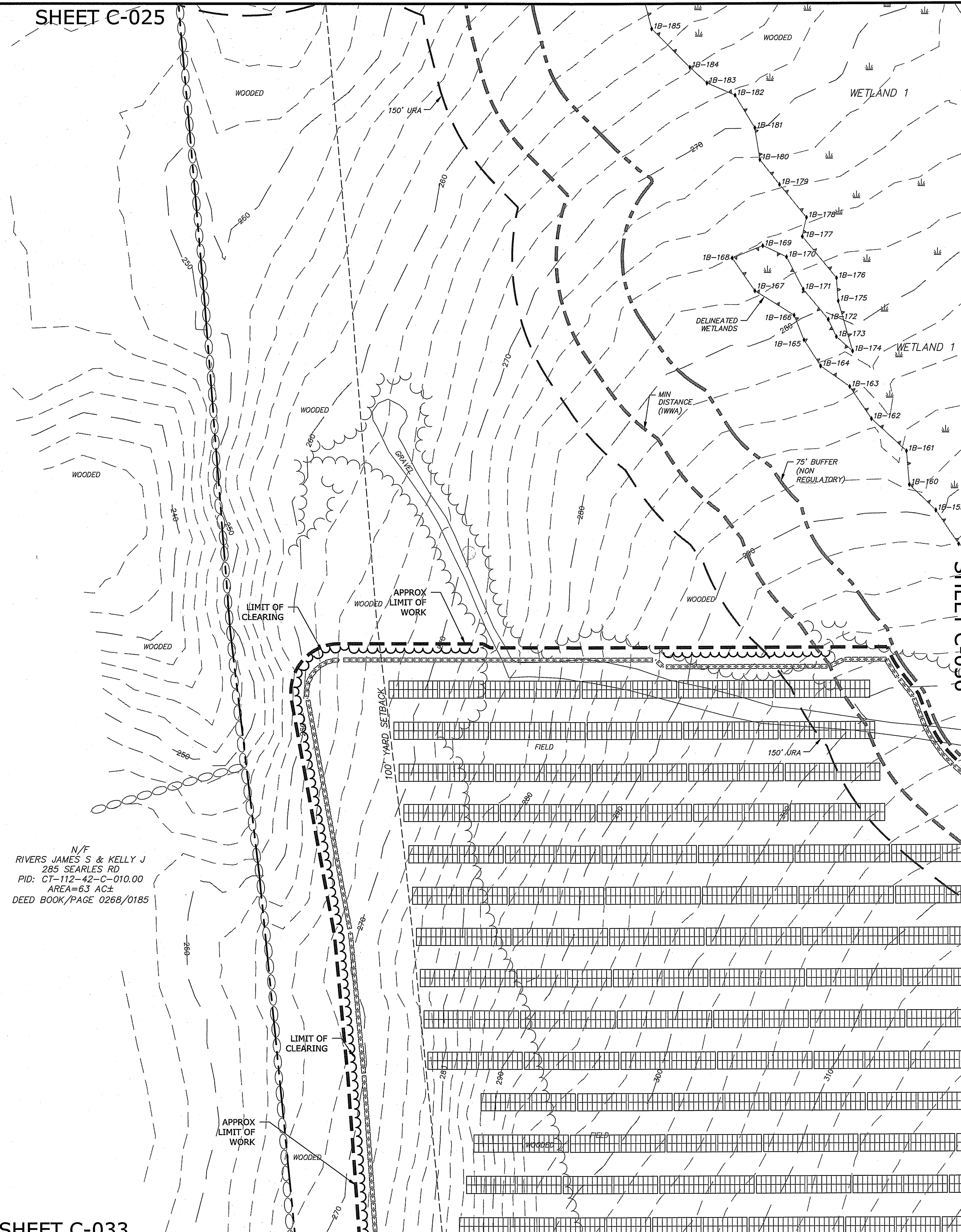


1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED BY:		BA/BSH
APPROVED:		FJH

PROPOSED CONDITIONS

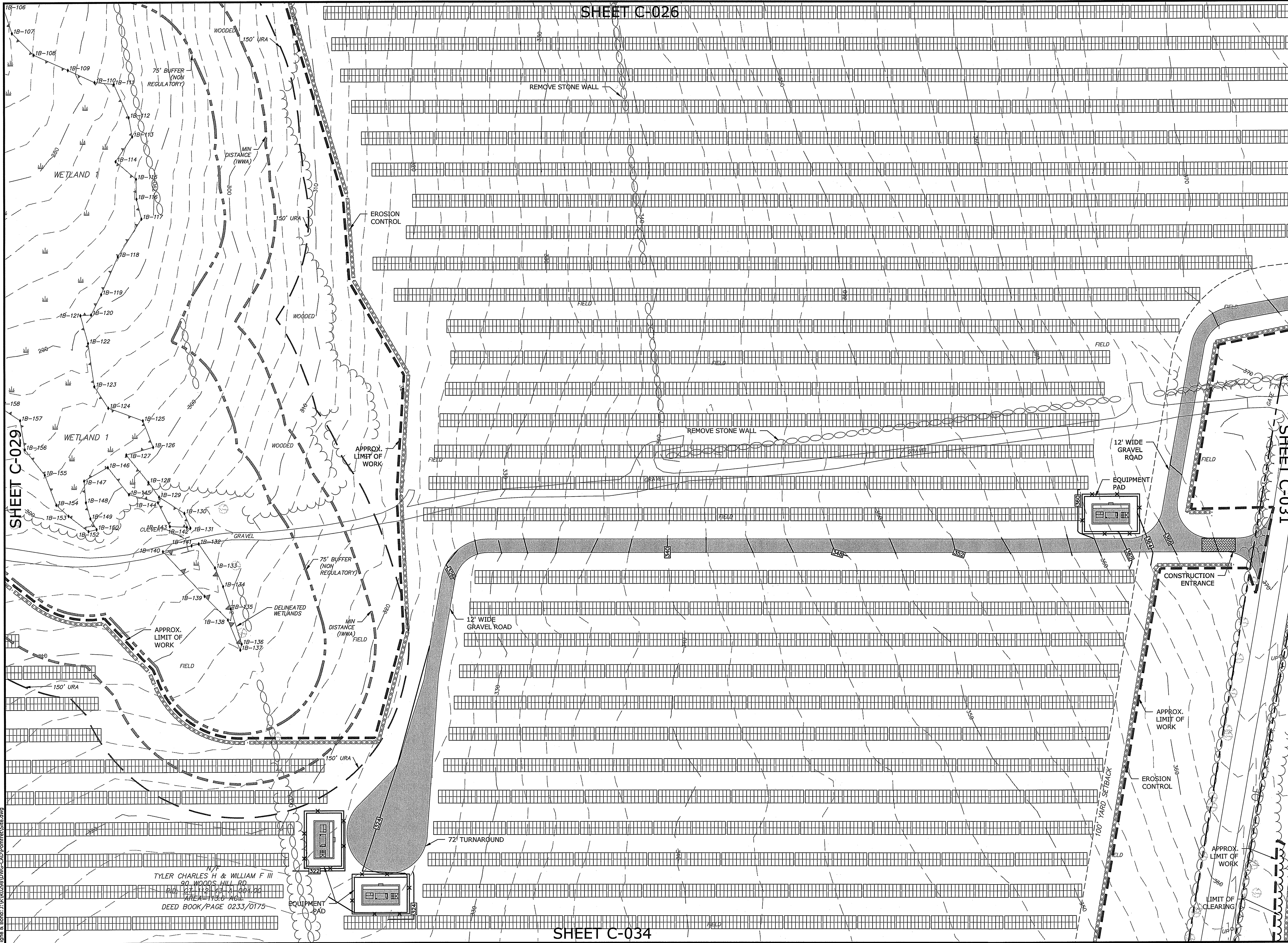
SCALE: 1" = 40'

**C-029**  
SHEET 31 OF 40



N/F  
RIVERS JAMES S & KELLY J  
285 SEARLES RD  
PID: CT-112-42-C-010.00  
AREA=63 AC±  
DEED BOOK/PAGE 0268/0185





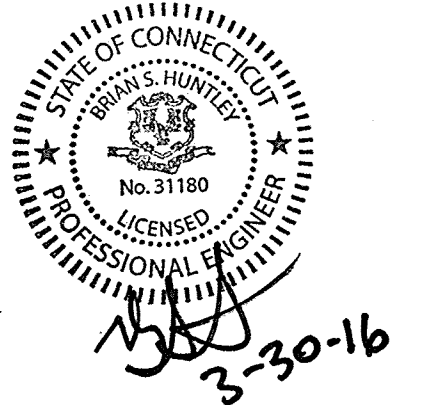
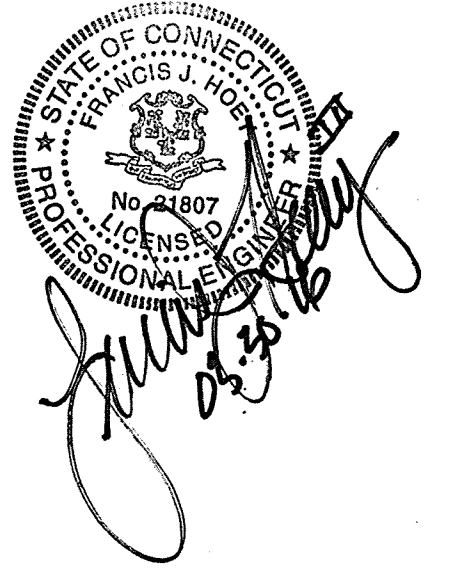
SHEET C-026

SHEET C-029

SHEET C-031

SHEET C-034

**Tighe & Bond**  
www.tighebond.com



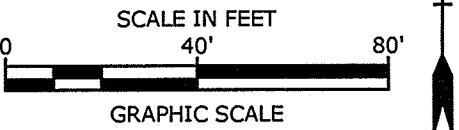
Permit Set

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
0 = 1 INCH  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO: R-0298		
DATE: 2015/12/30		
FILE: Site.dwg		
DRAWN BY: DGM		
CHECKED: BA/BSH		
APPROVED: FJH		

PROPOSED CONDITIONS

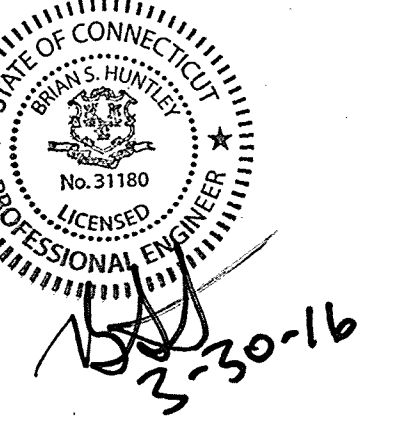
SCALE: 1" = 40'

**C-030**  
SHEET 32 OF 40

Last Saved: 2/20/2016  
 Plotted On: Mar 30, 2016 - 1:09pm By: DGM  
 Tighe & Bond: J:\R\0298\DWG-CAD\Pomfret\Site.dwg

TYLER CHARLES H & WILLIAM F III  
90 WOODS HILL RD  
P.O. BOX 1121 P.O. BOX 11001, DC  
AREA 15.6 AC  
DEED BOOK/PAGE 0233/0175





N/F  
CUTLER KATHLEEN L  
100 WOODS HILL RD  
PID: CT-112-43-A-007.00  
AREA=2 AC±  
DEED BOOK/PAGE 0308/0339

GRAND  
JOHN F. & FREDERICK EGGENS  
100 WOODS HILL RD  
PID: CT-112-43-A-008.00  
AREA=2 AC±  
DEED BOOK/PAGE 0097/0388



SHEET C-032

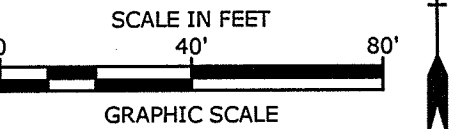
Permit Set

Woods Hill Solar Project

Woods Hill Solar, LLC

Pomfret, Connecticut

VERIFY SCALE  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO: R-0298		
DATE: 2015/12/30		
FILE: Site.dwg		
DRAWN BY: DGM		
CHECKED BY: BA/BSH		
APPROVED BY: FJH		

PROPOSED CONDITIONS

SCALE: 1" = 40'

C-031  
SHEET 33 OF 40

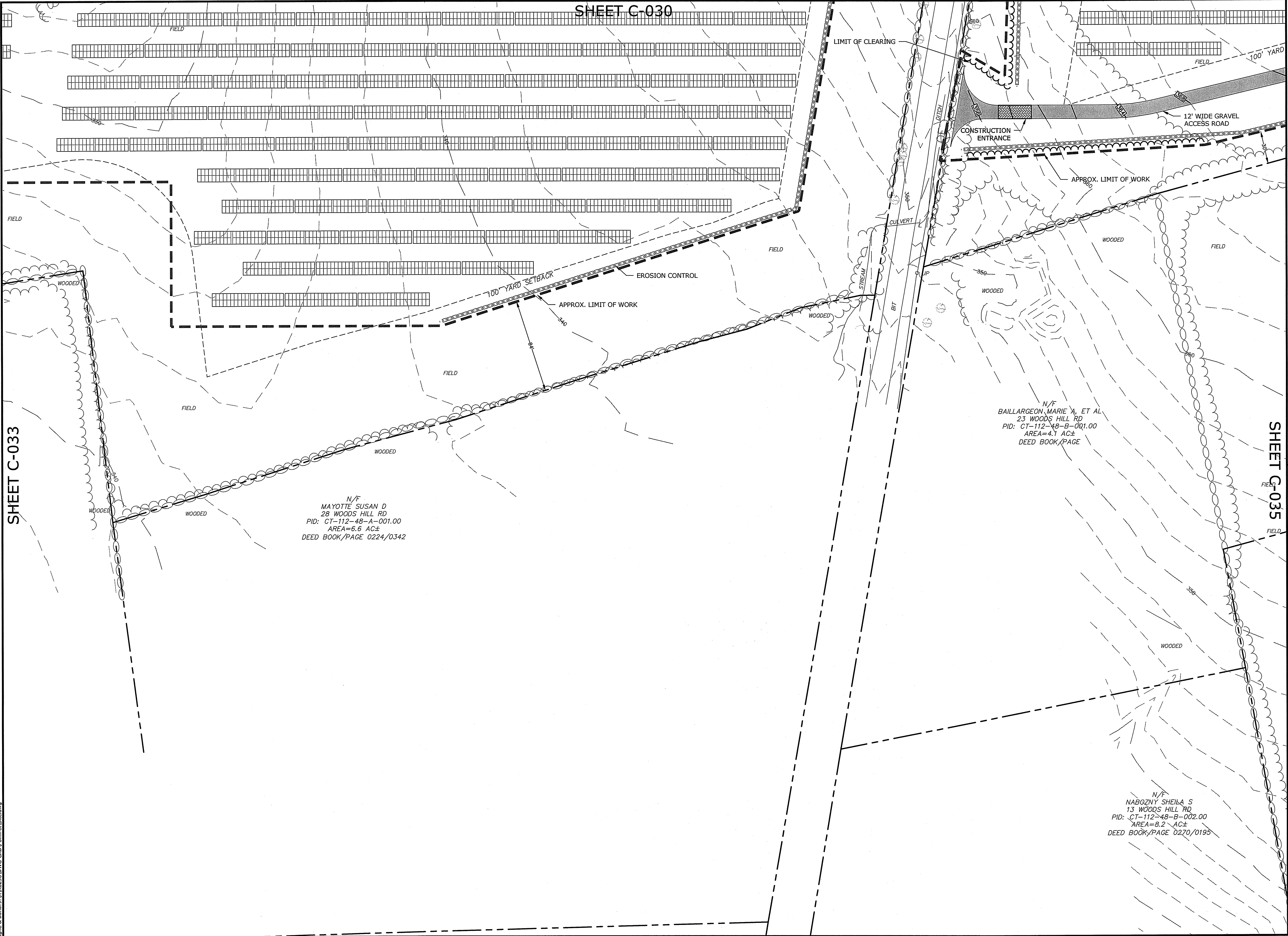
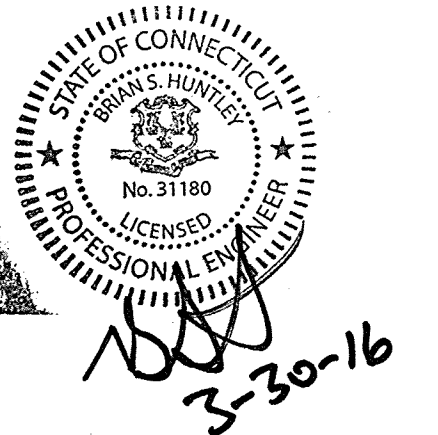
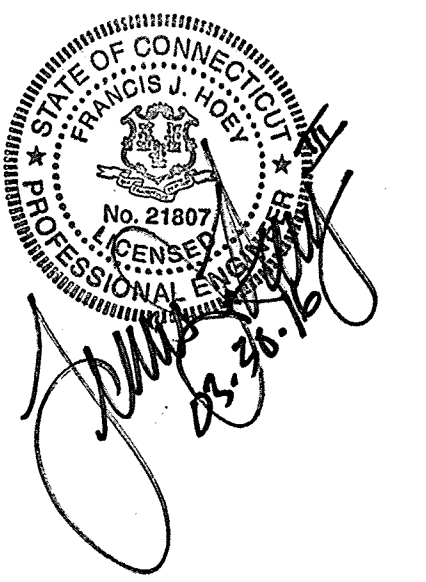
Last Saved: 3/20/2016 10:08:10 AM  
Printed On: Mar 20, 2016 10:08 AM By: DGM  
Tighe & Bond: J:\R0298\DWG-CAD\Permits\Sites.dwg











SHEET C-033

SHEET C-035

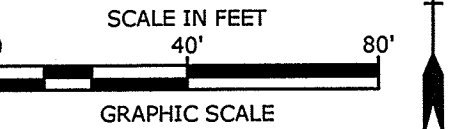
Permit Set

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



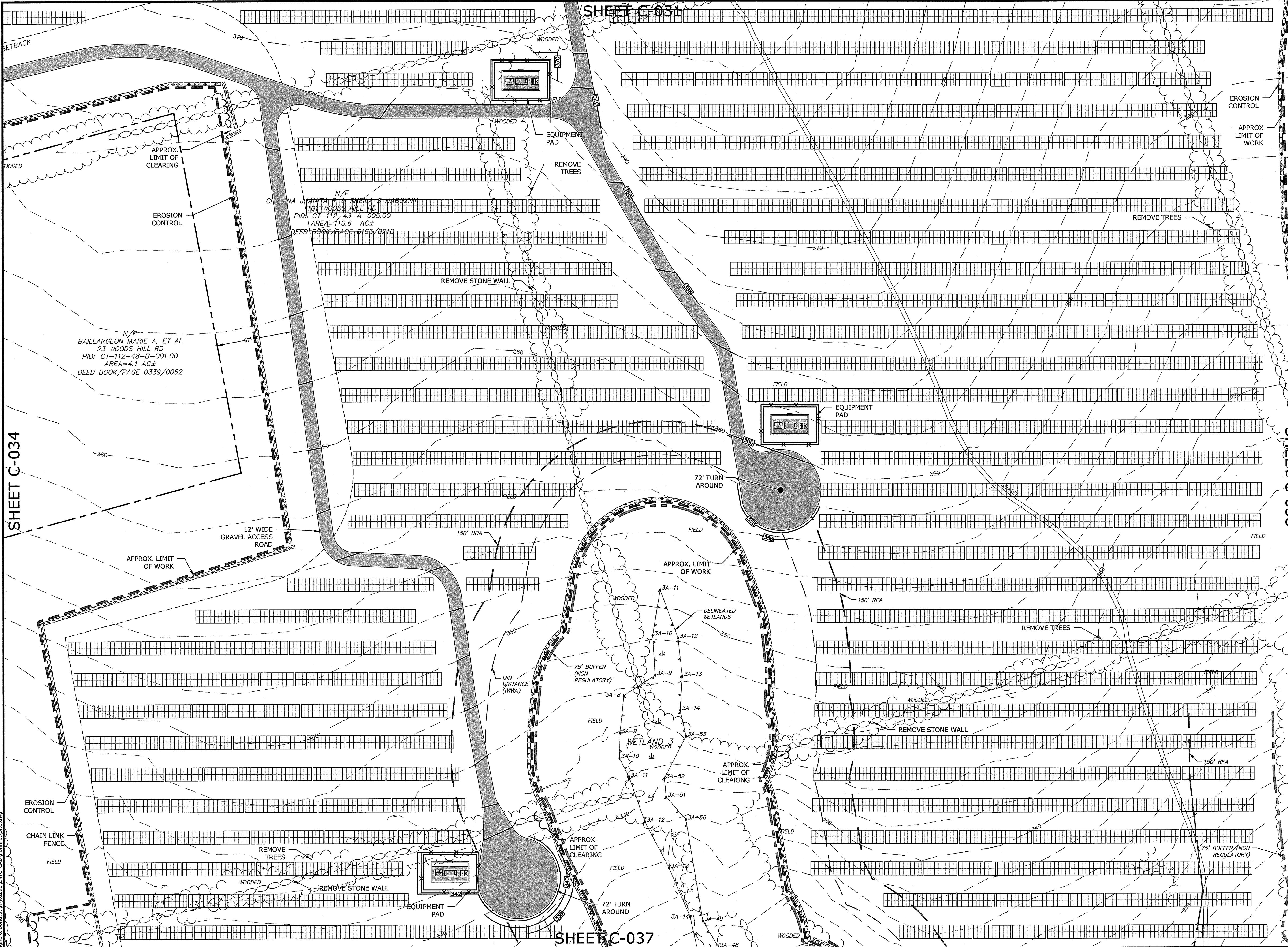
MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

PROPOSED CONDITIONS

SCALE: 1" = 40'

**C-034**  
SHEET 36 OF 40



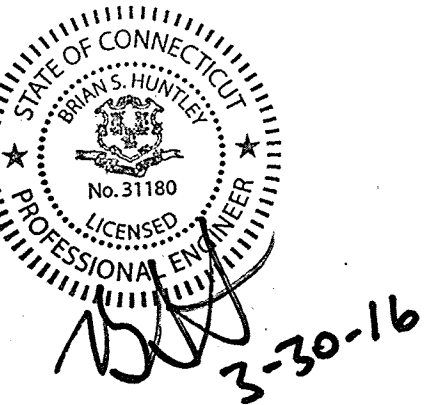
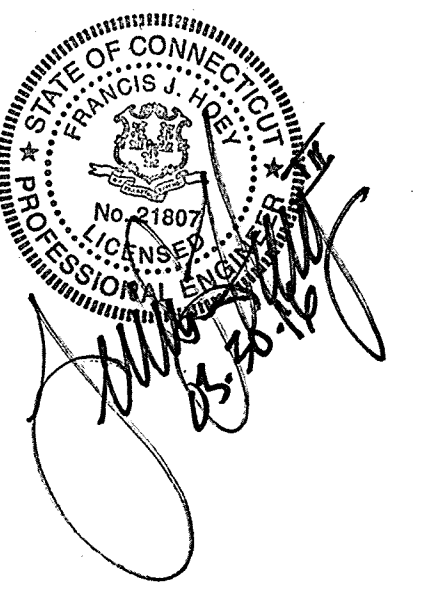


SHEET C-031

SHEET C-034

SHEET C-036

SHEET C-037



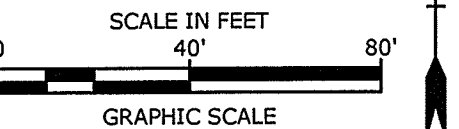
Permit Set

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE

PROJECT NO: R-0298  
DATE: 2015/12/30  
FILE: Site.dwg  
DRAWN BY: DGM  
CHECKED BY: BA/BSH  
APPROVED: FJH

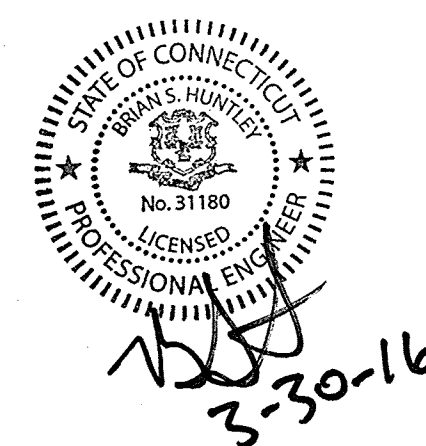
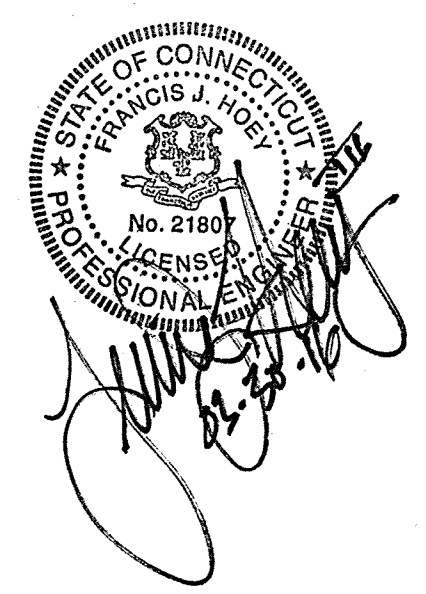
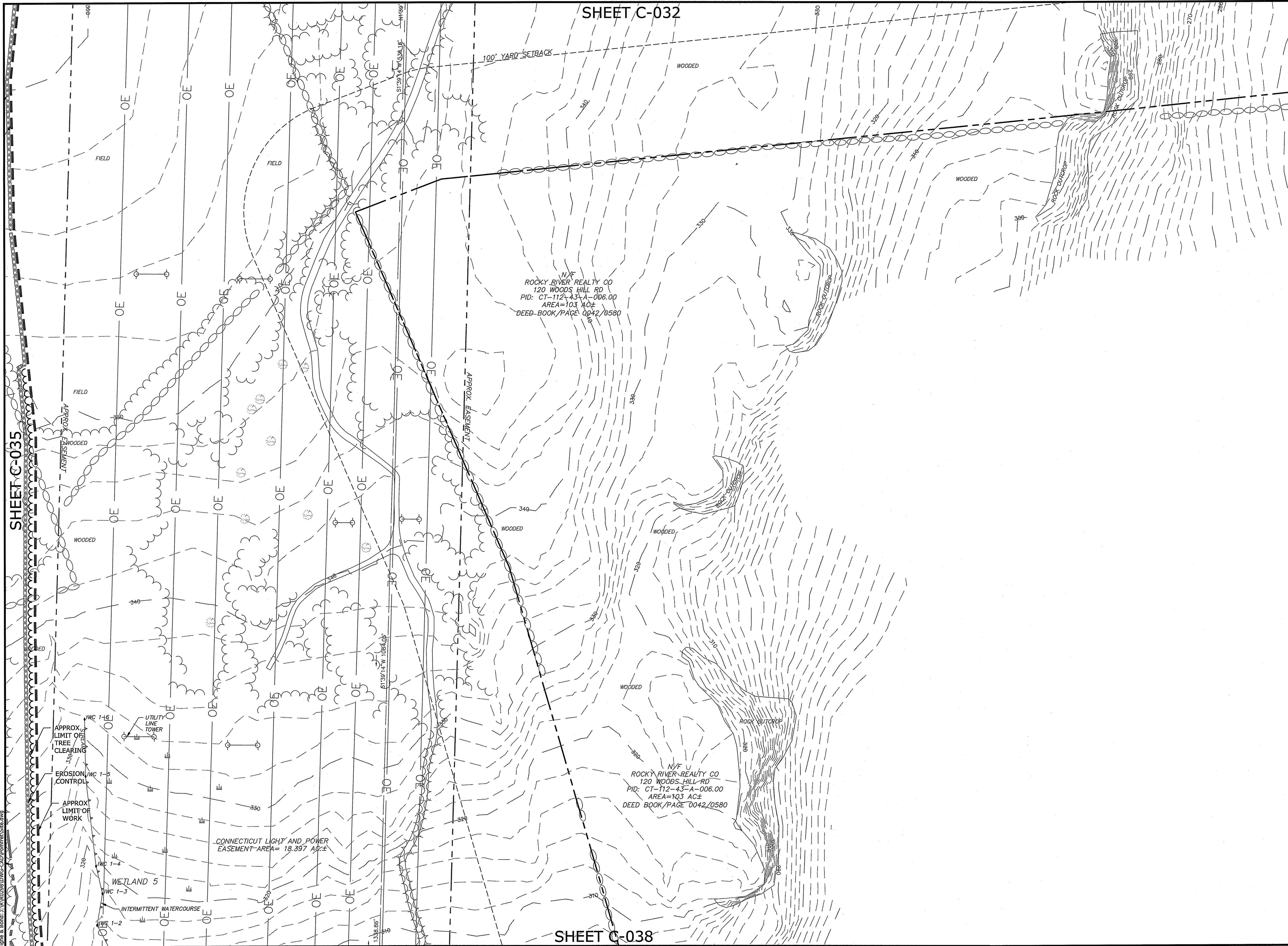
PROPOSED CONDITIONS

SCALE: 1" = 40'

**C-035**  
SHEET 37 OF 40

Last Saved: 3/20/2016 10:09pm By: DGM  
Plotted On: Mar 20, 2016 1:09pm  
Tighe & Bond: \\N:\R0298\DWG-CAD\Permits\Site.dwg



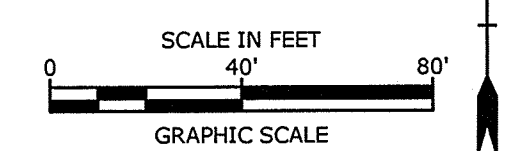


Permit Set

Woods Hill Solar Project

Woods Hill Solar, LLC  
Pomfret, Connecticut

VERIFY SCALE  
 BAR IS 1 INCH ON ORIGINAL DRAWING  
 0 1 INCH  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE
PROJECT NO:		R-0298
DATE:		2015/12/30
FILE:		Site.dwg
DRAWN BY:		DGM
CHECKED:		BA/BSH
APPROVED:		FJH

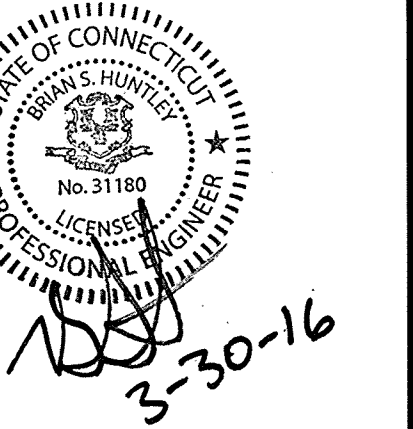
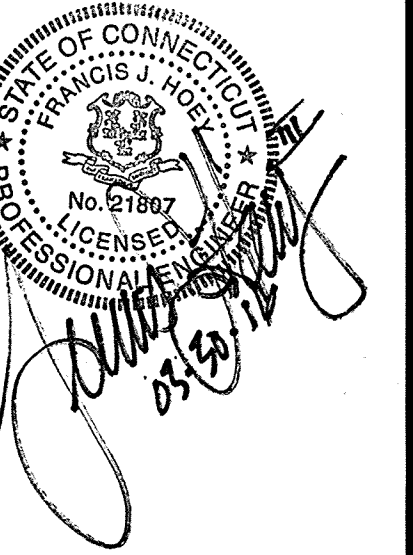
PROPOSED CONDITIONS

SCALE: 1" = 40'

C-036  
SHEET 38 OF 40

East Sheet: 3/30/2016  
Tighe & Bond  
300 Ross Rd  
Pomfret, CT 06251





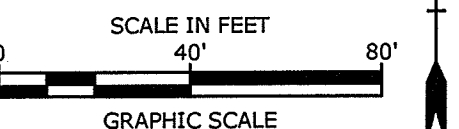
**Permit Set**

**Woods Hill Solar Project**

Woods Hill Solar, LLC

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



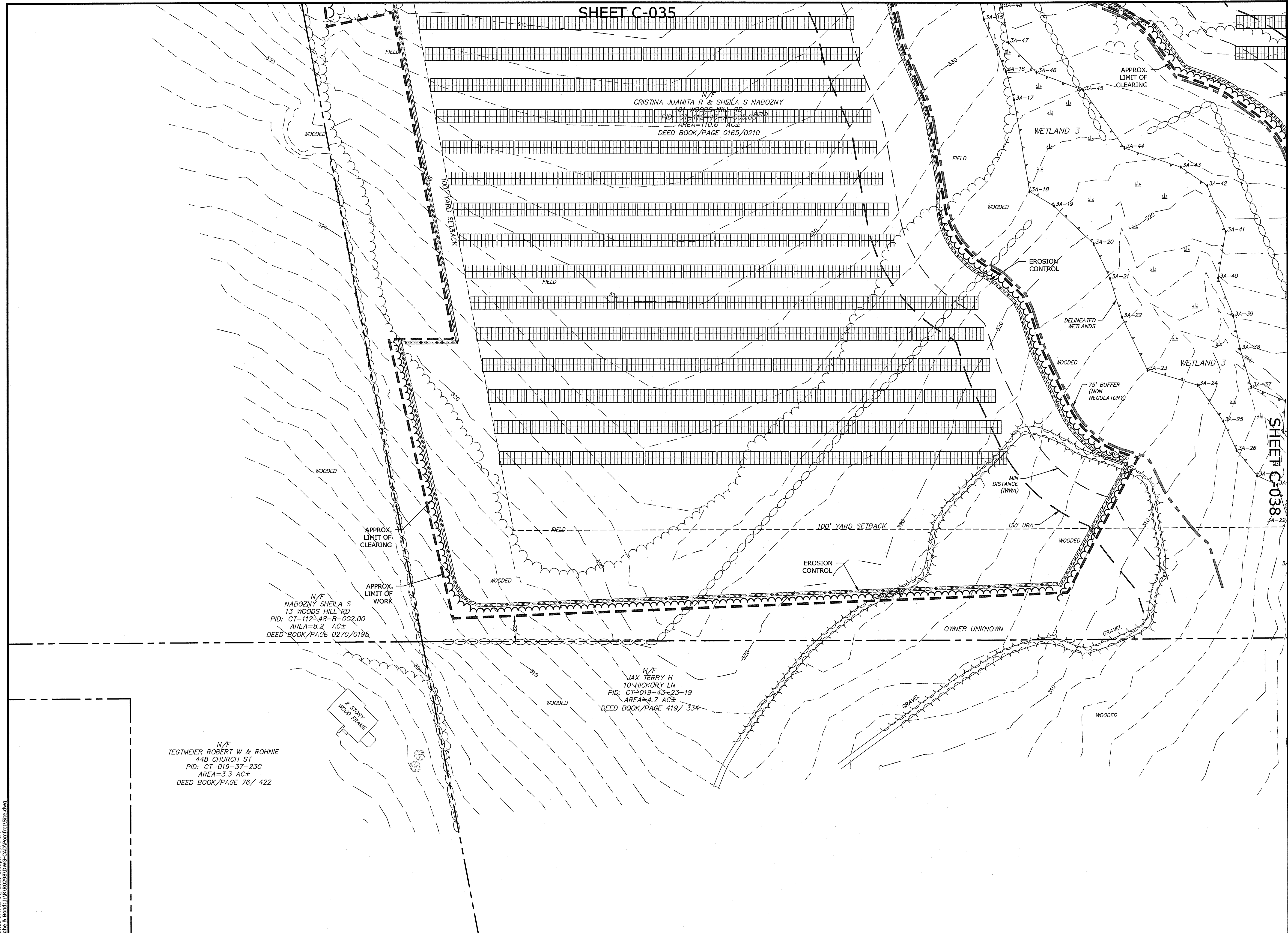
MARK	DATE	DESCRIPTION
1	03/24/2016	INITIAL RELEASE

PROJECT NO: R-0298  
DATE: 2015/12/30  
FILE: Site.dwg  
DRAWN BY: DGM  
CHECKED: BA/BSH  
APPROVED: FJH

**PROPOSED CONDITIONS**

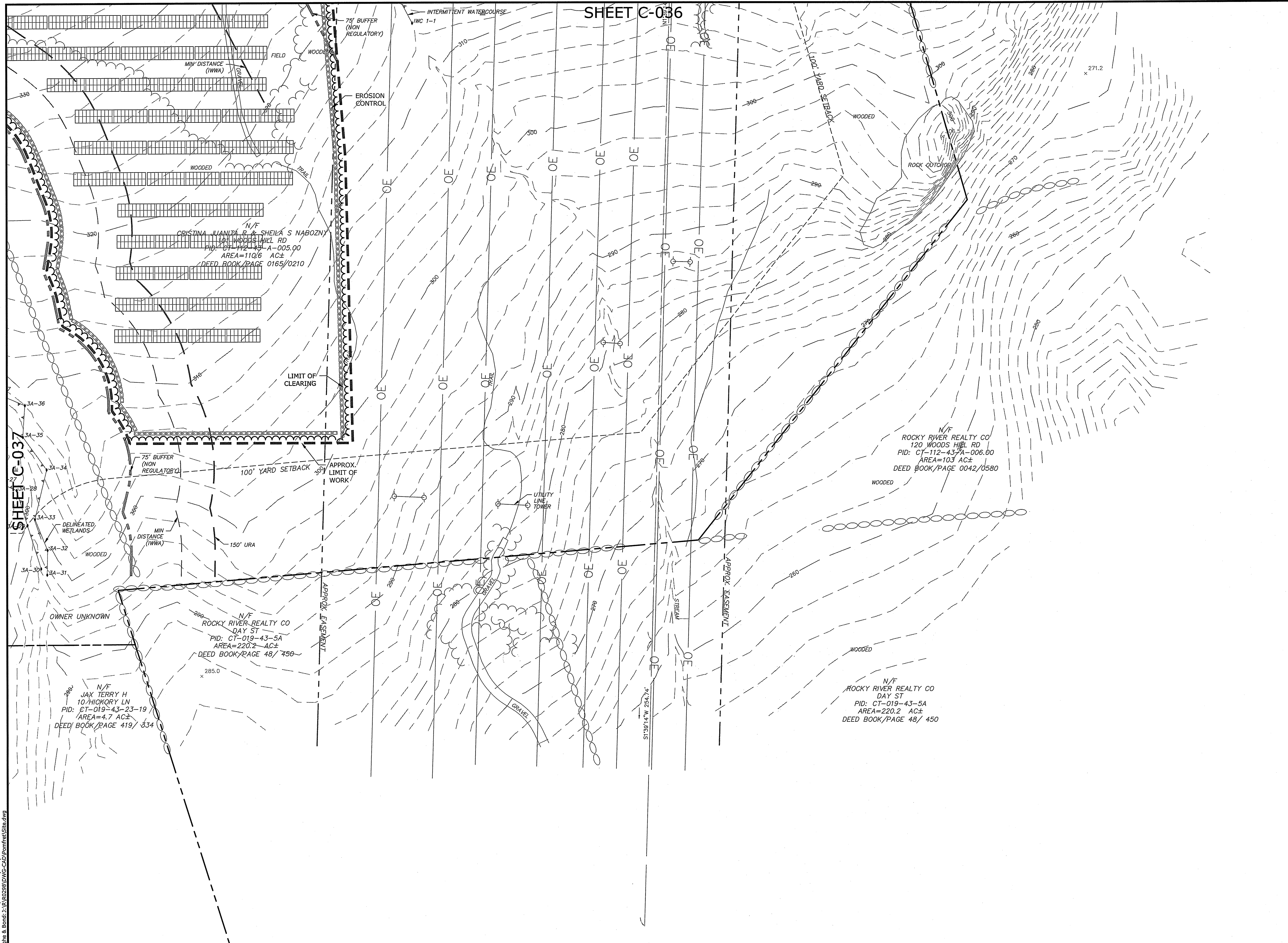
SCALE: 1" = 40'

**C-037**  
SHEET 39 OF 40



Last Saved: 3/30/2016  
 Plotted On: Mar 30, 2016 1:09pm By: DGM  
 Tighe & Bond: J:\R\0298\DWG-CAD\PermitSet.dwg

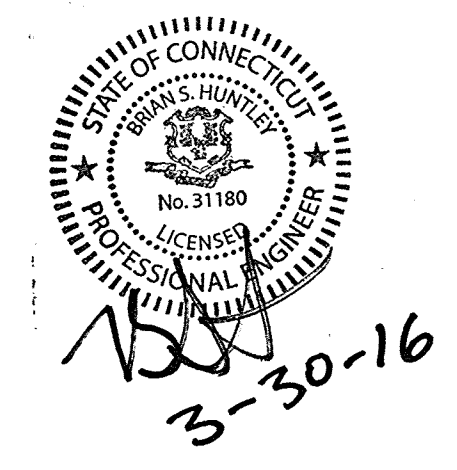
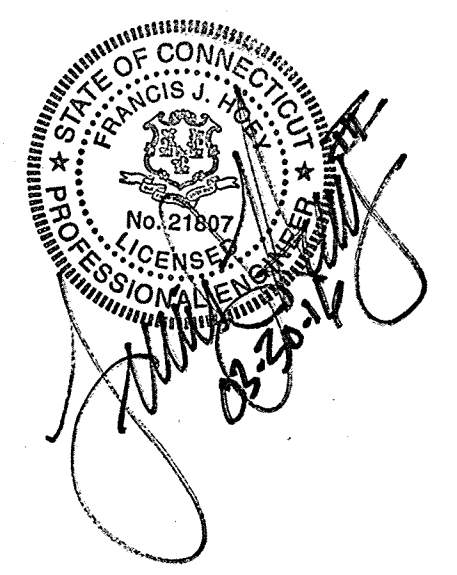




SHEET C-036

SHEET C-037

**Tighe & Bond**  
www.tighebond.com



**Permit Set**

**Woods Hill Solar Project**

**Woods Hill Solar, LLC**

Pomfret, Connecticut

**VERIFY SCALE**  
BAR IS 1 INCH ON ORIGINAL DRAWING  
0 1 INCH  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SCALE IN FEET  
0 40' 80'  
GRAPHIC SCALE

1	03/24/2016	INITIAL RELEASE
MARK	DATE	DESCRIPTION
PROJECT NO:	R-0298	
DATE:	2015/12/30	
FILE:	Site.dwg	
DRAWN BY:	DGM	
CHECKED:	BA/BSH	
APPROVED:	FJH	

PROPOSED CONDITIONS

SCALE: 1" = 40'

**C-038**  
SHEET 40 OF 40

Last Saved: 3/30/2016  
 Plotted On: Mar 30, 2016 - 1:09pm By: DGM  
 Tighe & Bond: J:\R\0298\DWG-CAD\Pomfret\Site.dwg

## **EXHIBIT D:**

Construction Schedule/Duration



## Exhibit D: Project Schedule

Woods Hill Solar Schedule		
Development / Construction Activity	Start Date	End Date
Obtain all required land for 100% site control of the primary project footprint	Complete	Complete
Interconnection Studies Complete	Commenced	Q2 2016
Interconnection Agreement Executed	11/15/15	Q2 2016
Obtain all required permits	Commenced	6/15/16
Execute major Project Contracts (EPC, Panels, etc.)	6/30/16	9/30/16
Close project financing, or proof of Project sponsor financial capability to construct the facility provided to NSP	6/30/16	6/30/16
Commencement of Construction	6/30/16	7/15/16
Complete foundations for all facility buildings, generating facilities and step-up transformation facilities	8/1/16	9/1/16
Delivery and installation of generator(s)/step-up transformers to Site	8/1/16	9/1/16
Construct Seller's Interconnection Facilities and facilities energization capability completion	7/1/16	11/1/16
Commencement of facility Start-up testing	11/1/16	12/1/16
Commencement of Commercial Operation	12/1/16	12/31/16

**EXHIBIT E:**  
Decommissioning Plan





**SUMMARY OF WORK**  
Solar Photovoltaic Decommissioning  
  
For Woods Hill Solar LLC's  
Woods Hill Solar Project  
Town of Pomfret County, Connecticut

**Author:** Dan Boyd

**Date:** March 8, 2016

**Ref:** 030082016-REV1

This document ("Report") has been prepared by Renewable Energy Systems Americas Inc ("RES Americas Inc"). RES Americas Inc shall not be deemed to make any representation regarding the accuracy, completeness, methodology, reliability or current status of any material contained in this ("Report"), nor does RES Americas Inc assume any liability with respect to any matter or information referred to or contained in the Report. Any person relying on the Report ("Recipient") does so at their own risk, and neither the Recipient nor any party to whom the Recipient provides the Report or any matter or information derived from it shall have any right or claim against RES Americas Inc or any of its affiliated companies in respect thereof. Recipient shall treat all information in the Report as confidential.



## Revision History

Issue	Date	Author	Nature And Location Of Change
01	March 8, 2016	Dan Boyd	First Created

### SUMMARY OF WORK

#### SOLAR PV DECOMMISSIONING

##### Section 1: Background

Solar Photovoltaic (“PV”) facility decommissioning is generally described as the removal of all system components and the rehabilitation of the site to pre-construction conditions. The typical goal of project decommissioning and reclamation is to remove the installed power generation equipment and return the site to a condition as close to a pre-construction state as feasible.

Properly maintained solar panels have an expected life of thirty (30) years, with an opportunity for a lifetime of fifty (50) years or more with equipment replacement and repowering. The decommissioning process will initiate upon the completion of the project’s useful life or the end of an economic power purchase agreement.

Deconstruction procedures are designed to ensure public health and safety, environmental protection, and compliance with applicable regulations. Typical activities during a solar energy facility decommissioning and site reclamation phase include the following:

- Facility de-energization
- PV module removal
- Dismantling and demolition of above grade structures
- Dismantling and removal of all aboveground and belowground utilities
- Debris management including hauling
- Temporary erosion control
- Removal of access road materials that are not maintained for other uses
- Removal of security fencing
- Regrading and revegetation

Much of the solid material waste can be recycled or sold as scrap.

##### Section 2: Facility Materials

PV facilities are constructed using the same basic materials and methods of installation common to their application. Materials include:

Metals: Steel from pier foundations, racking, conduits, electrical enclosures, fencing, equipment buildings, and storage containers; aluminum from racking, module frames, electrical wire, and transformers; stainless steel from fasteners, electrical enclosures, and racking; copper from electrical wire, transformers, and inverters.

Concrete: Equipment pads and footings. Note that the Project will NOT use concrete ballasts for panel support.

PV Cells: PV Modules are typically constructed of glass front sheets (some use glass back sheets as well), plastic back sheets and laminates, semiconductor rigid or thin film silicon cells, internal electrical conductors (aluminum or copper), silver solder, plus a variety of micro materials. The semiconductor





PV cell materials represent a very small part of a PV module's weight, between 1 and 2%. As manufacturers pursue lower cost modules, thinner layers of semiconductor materials are used which reduces this percentage. The most commonly used semiconductor material for the construction of PV modules is silicon. Other materials used for the construction of photovoltaic modules are copper, and in thin-film designs, indium, cadmium, and telluride. Glass, aluminum, and copper are easily recyclable materials, and silicon can be recycled by specialty electronics recyclers.

Glass: Most PV modules are approximately 80% glass by weight. There are certain modules, which use plastic and/or metal sheets for their foundations, however these are very specialized in their application and are generally not used for ground mounted projects.

Plastics: A limited amount of plastic materials are used in PV systems due to a system's continuous exposure to the elements and long operational lifetime. Plastics typically are found in PV facilities as wire insulation, electrical enclosures, control and monitoring equipment, and inverter components. Additionally plastic laminate films are used in most PV module assemblies.

It is generally agreed that the metals in PV Facilities will be highly valued as recycled materials when these facilities are deconstructed. In the limited number of facility deconstruction projects performed to date, the revenue from the recycling of these materials was found to cover the removal and transportation costs of these materials. If a facility is operational at the time of decommissioning and the PV modules are producing within specifications, there is a likely outlet for the used PV modules into a secondary market. It is generally accepted that the existing global market for used solar PV panels will be even more robust in the future.

### **Section 3: Project Decommissioning Plan**

The Project owner shall:

- Be responsible for all decommissioning costs;
- Obtain any additional permits required for the decommissioning, removal and legal disposal of Project components prior to commencement of decommissioning activities;
- Complete decommissioning, including component removal and disposal, grading and re-vegetation in accordance with permits and in compliance with all applicable rules and regulations then in effect governing the disposal thereof; and
- Remove all hazardous materials and transport them to be disposed of by licensed contractors at an appropriate facility in accordance with rules and regulations governing the disposal of such materials.

The following sequence for the removal of the components will be used:

PV Sites:

- Disconnect PV facility from the utility power grid
- Disconnect all aboveground wirings, cables and electrical interconnections and recycle offsite by an approved recycling facility
- Remove concrete foundations (if required). Electric rooms and their foundations will be removed and recycled off-site by a concrete recycler
- Remove PV modules and ship to recycling facilities for recycling and material reuse.
- Remove all waste
- Remove the perimeter fence and recycle off-site by an approved metal recycler

Inverters/Transformer:

- Disconnect all electrical equipment
- Remove all on site inverters, transformers, meters, fans, lighting fixture and other electrical components and recycle off-site by an approved recycler

SUMMARY OF WORK – Solar Photovoltaic Decommissioning



- Remove of all waste

#### Access Road:

- Consult with landowner to determine if access roads should be left in place for their continued use
- If access road is deemed unnecessary, remove access road surface materials and restore access road location as near as practical to its original condition.

#### Below-ground Structure Decommissioning

- Disconnect and remove all underground cables and transmission lines to a depth of 36" below grade and recycle off-site by an approved recycling facility
- Removal of steel rack foundations.

#### Site Restoration

Once the on-site equipment is removed, it is expected that the site will be returned to its exiting condition. Some minor site grading may be required. Site restoration activities will be undertaken with the input of the landowner.

The access road will be left at landowner's requests or graded to restore terrain profiles (as much as possible). If removed, filter fabric will need to be bundled and disposed of in accordance with all applicable regulations. The former road areas may need to be backfilled and restored to meet existing grade. This material may come from existing long term berm, stockpile, or nearby soils.

### **Section 4: Decommissioning Conditions and Timeframe**

The solar facility and all components described above shall be physically removed from the site no later than 180 days following the discontinuation of operations.

This decommissioning plan is based on current procedures and experience. These procedures may be subject to revision based on new experiences and requirements over time.



## **EXHIBIT F:**

Public Information Session Information



Woods Hill Solar Project, Pomfret



(860) 887-9211 • 66 Franklin Street, Norwich, CT 06360

**Advertising Fax:** 860-887-1949

## Receipt

**Account Number:**

**Order Number:** 00210447

**Salesperson:** Seidl | **Printed on:** 3/4/2016

**Telephone:** | **Fax:**

MARK LYONS  
LYONS, MARK  
455 BOSTON POST ROAD  
SUITE 206  
OLD SAYBROOK, CT 06475  
(860)388-7730

**Title:** Norwich Bulletin | **Class:** 900 Legals

**Start date:** 3/6/2016 | **Stop date:** 3/6/2016 |

**Insertions:** 1 | **Lines:** 26.59 ag

### SOLAR ENERGY FACILITY IN POMFRET

A ground mounted solar energy facility is being proposed for a site on Woods Hill Road in Pomfret, CT.

The project sponsor, RES Americas, invites members of the public to attend an information session about the project at Pomfret Senior Center, 207 Mashamoquet Road, Pomfret, CT 06258, at 7:00 PM on Tuesday March 8, 2016. Please join us.

For more information please contact:  
Mark Lyons, Senior Manager – Project  
Development  
Mark.Lyons@Res-Americas.com.

## Payment Information

**Total Order Price:** \$96.34

**Payment Type:** | **Exp:**







**EXHIBIT G:**

Abutting Property Owner List and Notice



Woods Hill Solar Project, Pomfret





On March 30, 2016, notice of the RES Woods Hill Road Project petition was sent to each owner of property which abuts property adjacent to the project as depicted on the maps set forth in Figures 1 and 2 below. This list of abutters to whom the notice was sent is set forth in the chart below:

<b><u>RES WOODS HILL ROAD PROJECT</u></b>			
<b><u>CERTIFICATION OF SERVICE TO ABUTTING PROPERTY OWNERS</u></b>			
<b><u>ABUTTER NAME / ENTITY</u></b>	<b><u>PROPERTY ABUTTING</u></b>	<b><u>MAILED FROM COUNSEL</u></b>	<b><u>RETURN RECEIPT BACK</u></b>
JOHN F ENNIS & FREDERICK EGGERS 289 PROVIDENCE RD BROOKLYN CT 06234	90 WOODS HILL RD & 101 WOODS HILL RD	3/30/16	
OJA THURE BARRETT HILL RD BROOKLYN CT 06234	90 WOODS HILL RD	3/30/16	
RIDGEWOOD FARM LLC 210 GREEN ST NORTHBOROUGH MA 01532	90 WOODS HILL RD	3/30/16	
JAMES S. & KELLY J. RIVERS PO BOX 291 POMFRET CENTER CT 06259	90 WOODS HILL RD	3/30/16	
ROGERS CORPORATION PO BOX 188 ROGERS CT 06263-0188	90 WOODS HILL RD	3/30/16	
CHARLES H. & WILLIAM F. TYLER III 495 NO SOCIETY RD CANTERBURY CT 06331	90 WOODS HILL RD & 101 WOODS HILL RD	3/30/16	
KATHLEEN L. CUTLER 50 WOODS HILL RD BROOKLYN CT 06234	90 WOODS HILL RD & 101 WOODS HILL RD	3/30/16	
JUANITA R. CRISTINA & SHEILA S. NABOZNY 253 KILLINGLY AVE PUTNAM CT 06260	90 WOODS HILL RD & 101 WOODS HILL RD	3/30/16	

**RES WOODS HILL ROAD PROJECT**

**CERTIFICATION OF SERVICE TO ABUTTING PROPERTY OWNERS**

<b><u>ABUTTER NAME / ENTITY</u></b>	<b>PROPERTY ABUTTING</b>	<b>MAILED FROM COUNSEL</b>	<b>RETURN RECEIPT BACK</b>
SUSAN D. MAYOTTE PO BOX 203 BROOKLYN CT 06234-0203	90 WOODS HILL RD & 101 WOODS HILL RD	3/30/16	
MARIE A. BAILLARGEON & MICHAEL D. DASILVA 23 WOODS HILL RD BROOKLYN CT 06234	90 WOODS HILL RD	3/30/16	
ROBERT W. & ROHNIE TEGTMEIER 448 CHURCH ST BROOKLYN CT 06234-1511	101 WOODS HILL RD	3/30/16	
THE ROCKY RIVER REALTY CO PO BOX 270 HARTFORD CT 06101-0270	101 WOODS HILL RD	3/30/16	
SHEILA S. NABOZNY 13 WOODS HILL RD BROOKLYN CT 06234	101 WOODS HILL RD	3/30/16	
KEITH D. & MELISSA J. HOYT 13 HICKORY LN BROOKLYN CT 06234	101 WOODS HILL RD	3/30/16	

The notice that was provided to each abutter was substantially in the form of the letter on page three of this Exhibit. In order to ensure that each abutter received notice, return receipts were requested for each notice. RES Woods Hill Road Project will provide copies of the receipts to the Council when the project receives them.



March 30, 2016

**VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

John F. Ennis and Frederick Eggers  
289 Providence Rd.  
Brooklyn, CT 06234

**Re: RES Americas, Inc.; Petition for Declaratory Ruling For Solar Energy Project on  
Woods Hill Road, Pomfret, CT**

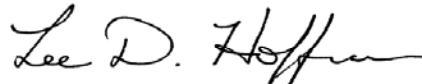
Dear Mr. Ennis and Mr. Eggers:

Pursuant to Section 16-50j-40(a) of the Connecticut Siting Council's (the "Council") regulations, we are notifying you that RES Americas, Inc. ("RES") intends to file on or shortly after March 31, 2016, a petition for declaratory ruling with the Council. This petition will request the Council's approval of the location and construction of an approximately twenty (20) megawatt solar photovoltaic (PV) project (the "Project"), located at 90 Woods Hill Road and 101 Woods Hill Road in Pomfret, Connecticut.

Electricity generated by the Project will be exported to the electric grid. The Project will consist of ground-mounted solar PV panels, will qualify as a Class I renewable energy resource, and will supply 100% renewable energy in furtherance of Connecticut's renewable energy goals.

If you have any questions regarding the Project, then please contact the undersigned or the Council.

Sincerely,



Lee D. Hoffman

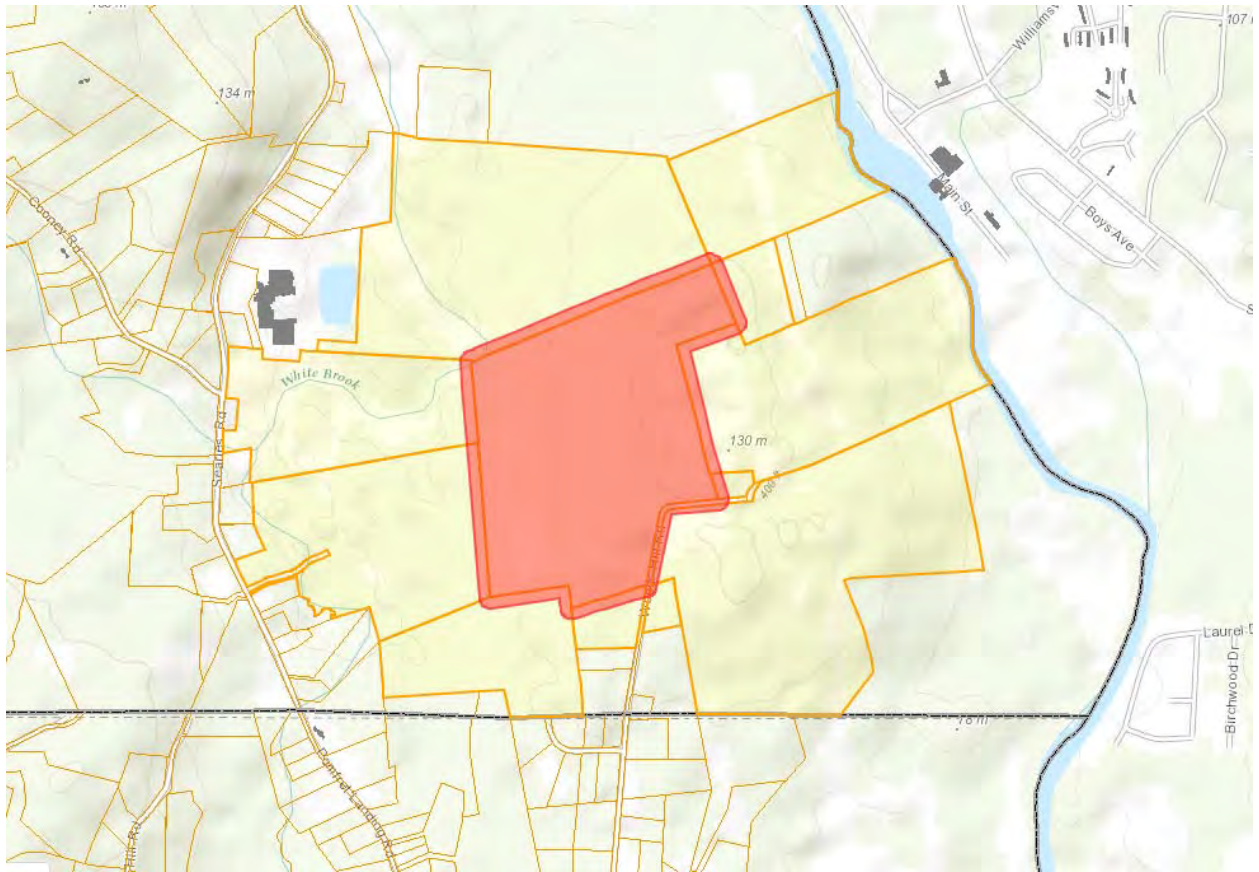


Fig. 1 90 Woods Hill Road, Pomfret – 100 foot abutters



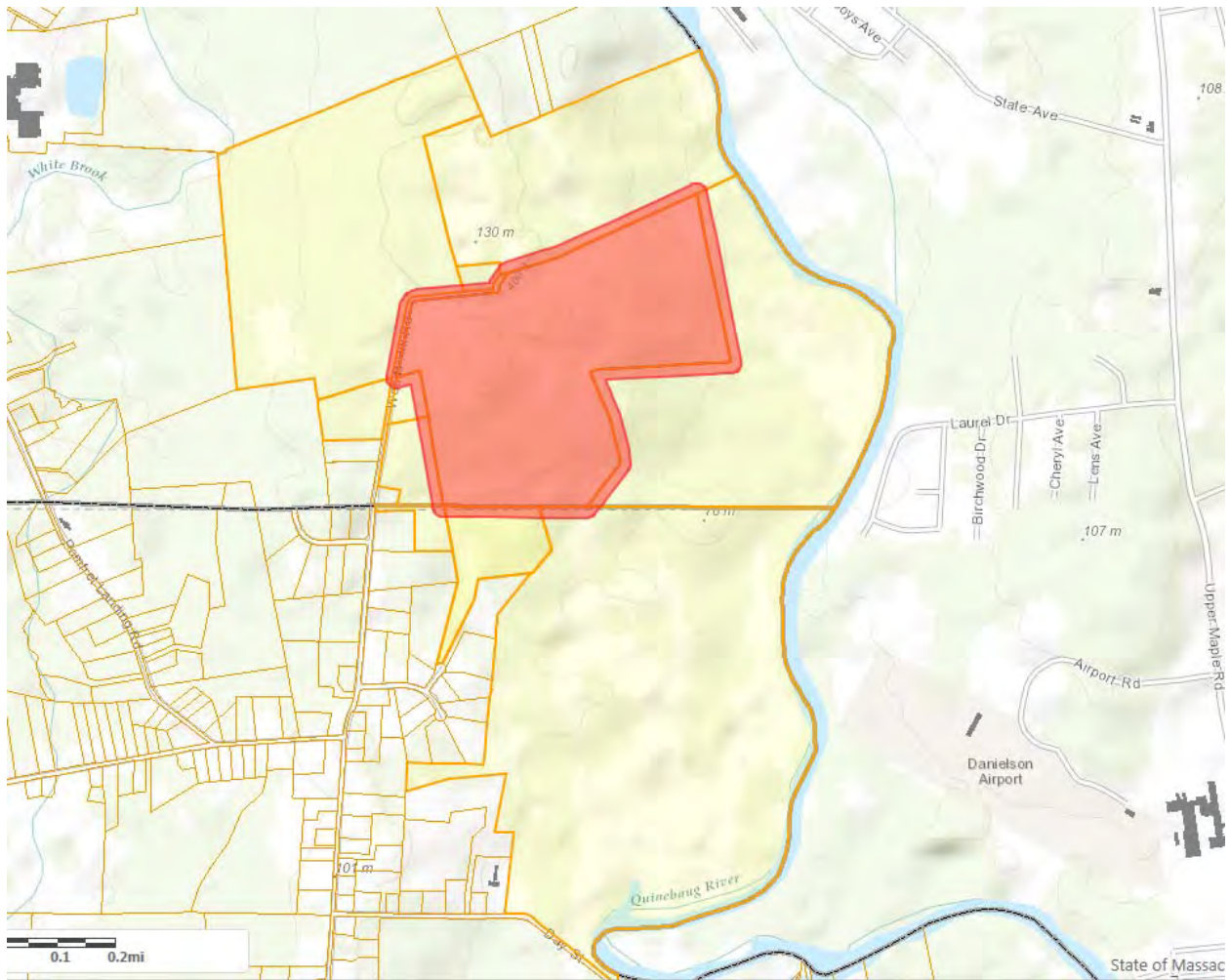


Fig. 2 101 Woods Hill Road, Pomfret – 100 foot abutters

## **EXHIBIT H:**

List of Municipal Officials and Government Agencies



On March 30, 2016, notice of the RES Woods Hill Road Project petition was sent to each governmental official to whom notice is required pursuant to the Council's regulations. The governmental officials to whom the notice was sent is set forth in the chart below:

<b><u>RES WOODS HILL ROAD PROJECT</u></b>		
<b><u>CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES</u></b>		
<b><u>CT SITING COUNCIL</u></b>		
<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED FROM COUNSEL</b>	<b>RETURN RECEIPT BACK</b>
<b><u>POMFRET</u></b>		
Pomfret First Selectman Craig Baldwin Town Hall 5 Haven Road Pomfret Center, CT 06259	March 30, 2016	
Pomfret Town Clerk Town Hall 5 Haven Road Pomfret Center, CT 06259	March 30, 2016	
Walter P. Hinchman, Chairman Planning and Zoning Commission Town Hall 5 Haven Road Pomfret Center, CT 06259	March 30, 2016	
Joseph A. Pajak III Building Official Town Hall 5 Haven Road Pomfret Center, CT 06259	March 30, 2016	
Pamela Cartledge, Chairman Pomfret Conservation Commission Town Hall 5 Haven Road Pomfret Center, CT 06259	March 30, 2016	
John Folsom, Chairman Inland Wetlands & Watercourses Commission Town Hall 5 Haven Road Pomfret Center, CT 06259	March 30, 2016	

**RES WOODS HILL ROAD PROJECT**

**CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES**  
**CT SITING COUNCIL**

<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED FROM COUNSEL</b>	<b>RETURN RECEIPT BACK</b>
Nicholas Gardner, Chairman Economic Planning and Development Commission Town Hall 5 Haven Road Pomfret Center, CT 06259	March 30, 2016	
<b><u>BROOKLYN</u></b>		
First Selectman Richard Ives Town Hall 4 Wolf Den Road PO Box 356 Brooklyn 06234	March 30, 2016	
Brooklyn Town Clerk Town Hall 4 Wolf Den Road PO Box 356 Brooklyn 06234	March 30, 2016	
Jana Butts Roberson Land Use Administrator Clifford B. Green Memorial Center 69 South Main Street PO Box 356 Brooklyn, CT 06234	March 30, 2016	
Carlene Kelleher, Chair Planning and Zoning Commission Town Hall 4 Wolf Den Road PO Box 356 Brooklyn 06234	March 30, 2016	
John A. Berard, Building Official Clifford B. Green Memorial Center 69 South Main Street Suite 22 Brooklyn, CT 06234	March 30, 2016	

**RES WOODS HILL ROAD PROJECT**

**CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES**  
**CT SITING COUNCIL**

<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED FROM COUNSEL</b>	<b>RETURN RECEIPT BACK</b>
Diane Wimmer, Chair Conservation Commission Town Hall 4 Wolf Den Road PO Box 356 Brooklyn 06234	March 30, 2016	
Real Gallant, Chair Inland Wetlands and Watercourses Commission Town Hall 4 Wolf Den Road PO Box 356 Brooklyn 06234	March 30, 2016	
Robert Simons, Vice-Chair Economic Development Commission Town Hall 4 Wolf Den Road PO Box 356 Brooklyn 06234	March 30, 2016	
<b><u>KILLINGLY</u></b>		
Sean Hendricks, Town Manager Killingly Town Hall 172 Main Street Second Floor Killingly, CT 06239	March 30, 2016	
Town Clerk Killingly Town Hall 172 Main Street Second Floor Killingly, CT 06239	March 30, 2016	
Ann-Marie L. Aubrey, Director Planning & Development Department 172 Main Street Killingly, CT 06239	March 30, 2016	



**RES WOODS HILL ROAD PROJECT**

**CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES**  
**CT SITING COUNCIL**

<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED FROM COUNSEL</b>	<b>RETURN RECEIPT BACK</b>
Eric Rumsey Planner / Inland Wetlands Agent 172 Main Street Killingly, CT 06239	March 30, 2016	
Elsie Bisset Economic Development Director 172 Main Street Second Floor Killingly, CT 06239	March 30, 2016	
Donna M. Bronwell, Chair Conservation Commission 172 Main Street Killingly, CT 06239	March 30, 2016	
Sandy Eggers Inland Wetlands & Watercourses Commission 172 Main Street Killingly, CT 06239	March 30, 2016	
Keith Thurlow Planning & Zoning Commission 172 Main Street Killingly, CT 06239	March 30, 2016	
Dale Desmarais Economic Development Commission 172 Main Street Killingly, CT 06239	March 30, 2016	
<b><u>STATE GOVERNMENT</u></b>		
NORTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS 125 Putnam Pike, Rte. 12 P.O. Box 759 Dayville CT 06241-0759	March 30, 2016	

**RES WOODS HILL ROAD PROJECT**

**CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES**  
**CT SITING COUNCIL**

<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED FROM COUNSEL</b>	<b>RETURN RECEIPT BACK</b>
Office of the Attorney General State of Connecticut Attorney General George Jepsen 55 Elm Street Hartford, CT 06106	March 30, 2016	
Senator Richard Blumenthal 90 State House Square, 10 <sup>th</sup> Floor Hartford, CT 06103	March 30, 2016	
Senator Christopher Murphy One Constitution Plaza, 7th Fl. Hartford, CT 06103	March 30, 2016	
US Congressman Joe Courtney 77 Hazard Ave, Unit J Enfield, CT 06082	March 30, 2016	
State Representative Mike Alberts Connecticut House Republican Office L.O.B. Room 4200 Hartford, CT 06106	March 30, 2016	
State Senator Tony Guglielmo Legislative Office Building Room 3400 Hartford, CT 06106	March 30, 2016	
<b><u>STATE AGENCIES</u></b>		
State of Connecticut Department of Energy and Environmental Protection Robert Klee, Commissioner 79 Elm Street Hartford, CT 06106	March 30, 2016	
State of Connecticut Department of Public Health c/o Dr. Jewel Mullen, Commissioner 410 Capitol Avenue, PO Box 340308 Hartford, CT 06134	March 30, 2016	

**RES WOODS HILL ROAD PROJECT**

**CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES**  
**CT SITING COUNCIL**

<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED FROM COUNSEL</b>	<b>RETURN RECEIPT BACK</b>
State of Connecticut Council on Environmental Quality c/o Susan D. Merrow, Chair 79 Elm Street Hartford, CT 06106	March 30, 2016	
State of Connecticut Department of Agriculture c/o Steven K. Reviczky, Commissioner 165 Capitol Avenue Hartford, CT 06106	March 30, 2016	
State of Connecticut Public Utility Regulatory Authority c/o Arthur House, Chairman Ten Franklin Square New Britain, CT 06051	March 30, 2016	
State of Connecticut Office of Policy and Management Benjamin Barnes, Secretary Office of Policy and Management 450 Capitol Avenue Hartford, CT 06106	March 30, 2016	
State of Connecticut Department of Economic and Community Development Catherine Smith, DECD Commissioner 505 Hudson Street Hartford, CT 06106	March 30, 2016	
State of Connecticut Department of Transportation c/o James P. Redeker, Commissioner 2800 Berlin Turnpike Newington, CT 06111	March 30, 2016	



**RES WOODS HILL ROAD PROJECT**

**CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES**  
**CT SITING COUNCIL**

<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED FROM COUNSEL</b>	<b>RETURN RECEIPT BACK</b>
Connecticut Department of Emergency Services and Public Protection Dora B. Schirro, Commissioner 1111 Country Club Road Middletown, CT 06457	March 30, 2016	
State of Connecticut Department of Consumer Protection Jonathan A. Harris, Commissioner 165 Capitol Avenue Hartford, CT 06106	March 30, 2016	
Connecticut Department of Administrative Services Melody A. Currey, Commissioner 165 Capitol Avenue Hartford, CT 06106	March 30, 2016	
State of Connecticut Department of Labor Sharon Palmer, Commissioner 200 Folly Brook Boulevard Wethersfield, CT 06109	March 30, 2016	

The notice that was provided to each governmental official was substantially in the form of the letter on the next page of this Exhibit. In order to ensure that each official received notice, return receipts were requested for each notice. RES Woods Hill Road Project will provide copies of the receipts to the Council when the project receives them.

In addition, a copy of the petition was provided to a representative of the towns of Pomfret, Killingly and Brooklyn, Connecticut.

March 30, 2016

**VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

Craig Baldwin  
First Selectman, Town of Pomfret  
Town Hall  
5 Haven Road  
Pomfret Center, CT 06259

**Re: RES Americas, Inc.; Petition for Declaratory Ruling For Solar Energy Project on  
Woods Hill Road, Pomfret, CT**

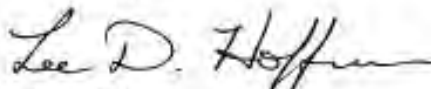
Dear Mr. Baldwin:

Pursuant to Section 16-50j-40(a) of the Connecticut Siting Council's (the "Council") regulations, we are notifying you that RES Americas, Inc. ("RES") intends to file on or shortly after March 31, 2016, a petition for declaratory ruling with the Council. This petition will request the Council's approval of the location and construction of an approximately twenty (20) megawatt solar photovoltaic (PV) project (the "Project"), located at 90 Woods Hill Road and 101 Woods Hill Road in Pomfret, Connecticut.

Electricity generated by the Project will be exported to the electric grid. The Project will consist of ground-mounted solar PV panels, will qualify as a Class I renewable energy resource, and will supply 100% renewable energy in furtherance of Connecticut's renewable energy goals.

If you have any questions regarding the Project, then please contact the undersigned or the Council.

Sincerely,



Lee D. Hoffman

## **EXHIBIT I:**

### Operations and Maintenance Plan



## Operations & Maintenance Plan

The Operation & Maintenance (O&M) plan for the solar facility is explained below.

RES Americas, Inc. (RES) is responsible for maintaining and servicing the solar electric system post construction. This work will be performed through a combination of RES personnel, approved subcontractors, or authorized vendor (manufacturer of components used in the solar PV system) representatives. The area where the Solar Electric System is located and the immediate proximity of the electrical equipment shall be treated as a Secure Facility, accessible only by authorized personnel. Access to these locations should be arranged by contacting the Owner or Operator.

Operations at the site will be minimal. The panels are static, and are monitored remotely on a continuous basis over the internet. On a daily basis, the applicant will be responsible for responding to alerts from system's automated alert system regarding potential system malfunction.

Additional maintenance at the site will typically consist of the following.

### Equipment Maintenance

RES and/or its authorized sub-contractors will conduct the following tasks as required by manufacturers' specifications to ensure maintenance and proper operation of the solar PV system equipment and limit traffic to and from the site.

- Perform a visual inspection of the equipment including subassemblies, wiring harnesses, contacts and major components and record ambient operating temperature.
  - Check inverter modules for the following:
    - IGBTs and inverter boards for discoloration
    - Power capacitors for signs of damage
    - Record all voltage and current readings via the front display panel
    - Check appearance/cleanliness of the cabinet, ventilation system and insulated surfaces
    - Check for corrosion on terminals and cables
    - Torque terminals, connectors and bolts as needed
    - Check all fuses for open or signs of heating (Inverter & Combiner)
    - Check the condition of both the AC & DC Surge Suppressors
    - Check the operation of all safety devices (E-Stop, Door Switches, GFDI)
    - Correct all deficiencies detected
  - Inspect (clean or replace) air filter elements
  - Complete Maintenance Schedule Card and issue a written inspection report
  - Install and perform any recommended Engineering Field Modifications, including software upgrades.
-

## Site Maintenance

RES and/or its authorized subcontractors will perform site maintenance activities as follow, to ensure safety and to maintain site aesthetics.

- Mowing the grass between the rows of racks a minimum of twice a year, possibly more if the growth of grass requires it. The height of the grass will be maintained at a level to reduce the risk of grass fires. No herbicides or chemicals will be used to manage vegetation.
- Personnel in a pickup-type truck will visit the site monthly to inspect the inverters for proper performance and perform maintenance as needed. The condition of signage and proper functioning of access gates will be inspected as well.

## Array Cleaning Procedure

RES and/or its authorized subcontractors will clean the PV panels if the system is outputting a noticeably lower wattage AC or there is an accumulation of dirt on the modules. Maintaining module cleanliness is crucial to maximizing system performance. No harmful chemicals shall be used in the cleaning of the modules. Cleaning of the panels will be done with water and a soft-bristled broom if needed. Note that the PV system does not need to be turned off during cleaning.

## Snow Maintenance

Following a snow event, RES and/or its authorized subcontractors will plow the access roads in order to maintain access to the electrical equipment pads. Snow will be plowed in a manner such that access to the turnaround areas is not impeded. If necessary, excess snow will be moved to a different location on site to ensure the access roads are clear.

**EXHIBIT J:**  
Photo Simulations



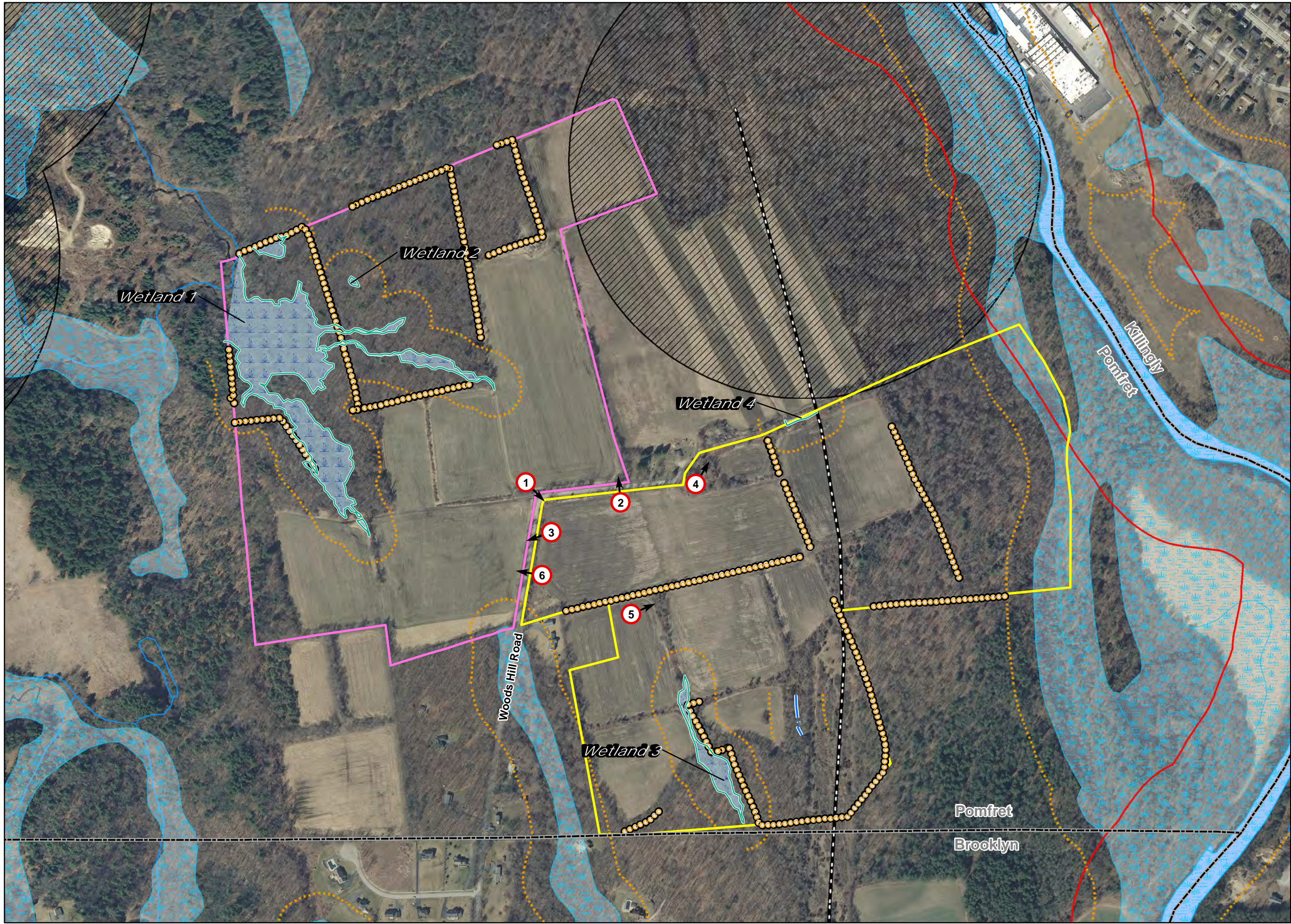
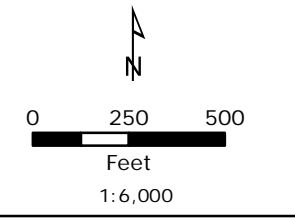


Photo Simulation  
Location Key

- LEGEND
- Site Parcel A (115 Acres)
  - Site Parcel B (113 Acres)
  - Delineated Wetland Boundary
  - Wetland Area
  - CT DEEP Inland Wetland Soils
  - Intermittent Watercourse
  - 150' Upland Review Area
  - 500' Upland Review Area
  - Watercourse
  - Waterbody
  - Natural Diversity Database Area
  - Stone Wall
  - 345 Kv Transmission Line
  - Town Boundary
  - # Photo Point

LOCUS MAP



NOTES

1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
2. 2012 imagery provided by CT DEEP.

Woods Hill  
Solar Project  
Pomfret, Connecticut

March 2016





# 1: Parcel A - View of the eastern farm field, facing southeast.





# 2: Parcel B - View of the easternmost parcel boundary, facing north.





# 3: Parcel B - View of the southern farm field, facing southwest.



# 4: Parcel A – View from northern edge of the parcel, facing northeast.





# 5: Parcel A – View across cornfield facing east.





# 6: Parcel B - View of the southern farm field, facing west.



## **EXHIBIT K:**

SHPO Correspondence





January 21, 2016

Ms. Briony Angus  
Tighe & Bond  
53 Southampton Road  
Westfield, MA 01085-5308

Subject: Solar Farm Development  
Woods Hill Road  
Pomfret, Connecticut

Dear Ms. Angus:

The State Historic Preservation Office (SHPO) has reviewed your request for information concerning the potential effects to historic properties associated with the referenced project. SHPO understands that the proposed solar voltaic facility will entail the construction of approximately 116 acres of ground-mounted solar panels within a larger 227 acre site area. Ancillary features include an access road, underground cabling, security fencing, and equipment pads. The proposed activities are under the jurisdiction of the Connecticut Siting Council.

SHPO notes that the project parcel is situated within a gently rolling, rural section of Pomfret comprised primarily of agricultural fields. Although no properties listed on the National Register of Historic Places have been documented within or immediately adjacent to the project parcels, several archeological sites have been recorded just east of the project parcels, along the Quinebaug River. The project area is situated on well-drained soils between White Brook to the west and the Quinnebaug River to the east. This type of environmental setting tends to be associated with pre-contact Native American settlement. We are therefore requesting that a professional cultural resources assessment and reconnaissance survey be completed prior to construction. Not all areas of the proposed solar field are archeologically sensitive, but it is SHPO's opinion that intact and relatively well-drained soils within portions of the Area of Potential Effect have an elevated potential to contain significant archeological resources. Subsurface testing should assess all areas of anticipated ground disturbance that are considered to have a moderate/high sensitivity for containing significant archeological deposits, unless sufficient research or fieldwork documents that this level of effort is unwarranted. SHPO does acknowledge that farming may have compromised the integrity of any archeological deposits, but this supposition should be confirmed by subsurface examination. All work should be in compliance with our *Environmental Review Primer for Connecticut's Archaeological Resources* and no construction or other project-related ground disturbance should be initiated until SHPO has had an opportunity to review and comment upon the requested survey. The survey also should take into consideration potential view shed impacts on structures older than fifty years that are listed on or may be eligible for listing on the National Register of Historic Places. A list of qualified consultants is attached for your convenience.

This office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with the Connecticut Environmental Policy Act. For additional information, please contact me at (860) 256-2764 or [catherine.labadia@ct.gov](mailto:catherine.labadia@ct.gov).

Sincerely,

Catherine Labadia  
Deputy State Historic Preservation Officer

State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | [Cultureandtourism.org](http://Cultureandtourism.org)

*An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender*





R 298-4-01-12  
December 10, 2015

State Historic Preservation Office  
One Constitution Plaza  
Hartford, CT 06103

Re: **Project Review Form – Woods Hill Road Solar Project  
Pomfret, Connecticut**

Dear Reviewer:

On behalf of RES America Developments, Inc. (RES or “the Proponent”), Tighe & Bond is submitting this Project Review request for the proposed installation of an approximately 25.6 MW<sub>(DC)</sub>/ 19.25<sub>(AC)</sub> ground-mounted solar PV system within two parcels (Parcel A and Parcel B) located near the terminus of Woods Hill Road in Pomfret, Connecticut. A Petition for a Declaratory Ruling for a Renewable Energy Facility will be submitted to the Connecticut Siting Council for review pursuant to Connecticut General Statutes Section 16-50k(a).

The total Site area is approximately 227 acre (Parcel A = 113 acres; Parcel B = 114 acres). As proposed, the limit of work of the proposed project will occupy approximately 116 acres of the 227-acre project Site (51 acres of Parcel A and 65 acres of Parcel B).

This submittal package includes the following materials:

- Appendix A: Project Description
- Appendix B: Maps/ Figures
  - USGS Site Location Map
  - Existing and Proposed Conditions Maps
  - Soil Map
  - Historic Photos
- Appendix C: Site Photographs
- Appendix D: Property Record Cards and Tax Maps

We request your review of this information for potential impact to historic and archaeological resources. Thank you in advance for your attention to this matter. If you have any questions, please contact me by email at [BAngus@tighebond.com](mailto:BAngus@tighebond.com) or phone at 413.875.1302.

Sincerely,

**TIGHE & BOND, INC.**

Briony Angus, AICP  
Senior Project Manager/ Associate

cc: Dan Boyd, Senior Director of Development, RES Americas, Inc.  
Tom Swank, Chairman, SunEast Power, LLC.





State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | 860.256.2800 | Cultureandtourism.org

PROJECT REVIEW COVER FORM

1. This information relates to a previously submitted project.

You do not need to complete the rest of the form if you have been previously issued a SHPO Project Number. Please attach information to this form and submit.

SHPO Project Number (Not all previously submitted projects will have project numbers)

Project Address (Street Address and City or Town)

2. This is a new Project.

If you have checked this box, it is necessary to complete ALL entries on this form .

Project Name Woods Hill Road Solar Project

Project Location 101 Woods Hill Road Include street number, street name, and or Route Number. If no street address exists give closest intersection.

City or Town Pomfret In addition to the village or hamlet name (if appropriate), the municipality must be included here.

County Windham If the undertaking includes multiple addresses, please attach a list to this form.

Date of Construction (for existing structures)

PROJECT DESCRIPTION SUMMARY (include full description in attachment):

Installation of an approximately 25.6 MW(DC)/ 19.25(AC) ground-mounted solar PV system within two parcels (Parcel A =113 acres; Parcel B=114 acres) located at the terminus of Woods Hill Road in Pomfret. The project includes installation of approximately 80,500 solar panels within 116 acres of the 227-acre project Site. RES is currently preparing a Petition to the Connecticut Siting Council for a Declaratory Ruling for Renewable Energy Facility under CGS 16-50k(a).

TYPE OF REVIEW REQUESTED

a. Does this undertaking involve funding or permit approval from a State or Federal Agency?

Yes  No

Table with 4 columns: Agency Name/Contact, Type of Permit/Approval, State, Federal. Row 1: Connecticut Siting Council, Declaratory Ruling, [X], [ ]

b. Have you consulted the SHPO and UCONN Dodd Center files to determine the presence or absence of previously identified cultural resources within or adjacent to the project area? [ ] Yes [X] No

If yes: Was the project site wholly or partially located within an identified archeologically sensitive area? [ ] Yes [ ] No

Does the project site involve or is it substantially contiguous to a property listed or recommended for listing in the CT State or National Registers of Historic Places? [ ] Yes [ ] No

Does the project involve the rehabilitation, renovation, relocation, demolition or addition to any building or structure that is 50 years old or older? [ ] Yes [ ] No



State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | 860.256.2800 | Cultureandtourism.org

PROJECT REVIEW COVER FORM

The Historic Preservation Review Process in Connecticut Cultural Resource Review under the National Historic Preservation Act – Section 106 http://www.achp.gov/106summary.html involves providing technical guidance and professional advice on the potential impact of publicly funded, assisted, licensed or permitted projects on the state's historic, architectural and archaeological resources.

Project review is conducted in two stages. First, the SHPO assesses affected properties to determine whether or not they are listed or eligible for listing in the Connecticut State or National Registers of Historic Places. If so, it is deemed "historic" and worthy of protection and the second stage of review is undertaken. The project is reviewed to evaluate its impact on the properties significant materials and character.

ALL PROJECTS SUBMITTED FOR REVIEW MUST INCLUDE THE FOLLOWING MATERIALS\*:

- PROJECT DESCRIPTION Please attach a full description of the work that will be undertaken as a result of this project. Portions of environmental statements or project applications may be included. The project boundary of the project should be clearly defined\*\*
PROJECT MAP This should include the precise location of the project – preferably a clear color image showing the nearest streets or roadways as well as all portions of the project. Tax maps, Sanborn maps and USGS quadrangle maps are all acceptable, but Bing and Google Earth are also accepted if the information provided is clear and well labeled. The project boundary should be clearly defined on the map and affected legal parcels should be identified.
PHOTOGRAPHS Clear, current images of the property should be submitted. Black and white photocopies will not be accepted. Include images of the areas where the proposed work will take place. May require: exterior elevations, detailed photos of elements to be repaired/replaced (windows, doors, porches, etc.) All photos should be clearly labeled.

Table with 4 columns: Item, Yes, N/A, Comments. Rows include: For Existing Structures (Property Card), For New Construction (Project plans or limits of construction, etc.), For non-building-related projects (dams, culverts, bridge repair, etc.), and SHPO USE ONLY (Indicate date of Review and Initials of Reviewer).

PROJECT CONTACT

Name Briony Angus, AICP Title Senior Project Manager
Firm/Agency Tighe & Bond
Address 53 Southampton Road
City Westfield State MA Zip 01085
Phone (413) 875-1302 Cell Fax
Email BAngus@tighebond.com

\*Note that the SHPO's ability to complete a timely project review depends largely on the quality of the materials submitted.
\*\* Please be sure to include the project name and location on each page of your submission.





## State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | 860.256.2800 | Cultureandtourism.org

### PROJECT REVIEW COVER FORM

#### SHPO USE ONLY

Based on our review of the information provided to the State Historic Preservation Office, it is our opinion that:

- No historic properties will be affected by this project. No further review is requested.
- This project will cause no adverse effects to the following historic properties. No further review is requested:
- This project will cause no adverse effects to the following historic properties, conditional upon the stipulations included in the attached letter:
- Additional information is required to complete our review of this project. Please see the attached letter with our requests and recommendations.
- This project will adversely affect historic properties as it is currently designed or proposed. Please see the attached letter for further details and guidance.

---

Daniel T. Forrest  
Deputy State Historic Preservation Officer

Date

# **Appendix A**

## Project Description

## **Project Description**

### **Woods Hill Road Solar Project Pomfret, Connecticut**

The project consists of the installation of an approximately 25.6 MW<sub>(DC)</sub>/ 19.25<sub>(AC)</sub> ground-mounted solar PV system within two parcels (Parcel A and Parcel B) located near the terminus of Woods Hill Road in Pomfret, Connecticut. Parcel A (approximately 113 acres) is located to the south/ east of the terminus of Woods Hill Road. Parcel B (approximately 114 acres) is located to the north/ west of Woods Hill Road. The total Site area is approximately 227 acres. As proposed, the limit of work of the proposed project will occupy approximately 116 acres of the 227-acre project Site (51 acres of Parcel A and 65 acres of Parcel B).

### **Existing Conditions**

The Site consists of relatively flat, cleared, agricultural land with frontage off of Woods Hill Road. Stone walls traverse portions of the agricultural land on both parcels. The Site is located just north of the municipal boundary between Pomfret and Brooklyn, Connecticut. Wooded areas surround the agricultural fields on both parcels. A large Connecticut Light & Power transmission line and right of way traverse Parcel A to the east of the cleared portion. The Quinebaug River is located approximately 1,200 feet to the east of the agricultural land on Parcel A. The Site contains inland wetlands and watercourses. Based on a review of GIS data, a portion of Parcel B includes rare species habitat mapped pursuant to the Natural Diversity Database program. There is no regulatory floodplain at the Site.

### **Photovoltaic Equipment**

Proposed activities include selective vegetation clearing, construction of a new gravel access road, and installation of solar PV modules and equipment pads. Approximately 80,500 310 watt solar PV modules (4 x 5 landscape layout) will be installed.

### **Mounting System**

The solar modules will be erected using a driven metal post foundation system. The racks will be installed approximately 15 feet apart. As shown on Figure 3 in Appendix B, portions of the proposed PV arrays will be located 75 feet from delineated inland wetlands. The racks will run east-west and will be mounted facing south at a fixed 25 degree angle to ground surface. The rows of racks will be spaced approximately 15 feet apart.

### **Cable Conduit and Utilities**

The system will include integrated combiner and disconnect switches, and the panel wiring feeds into these switches. From the combiner box, energy will be transmitted to inverters. The subsurface conduit will convey power from the solar array to the interconnection point located along Woods Hill Road, to be determined by Eversource.

### **Electrical Equipment and Interconnection**

Approximately 14 reinforced concrete electrical equipment pads (28' x 28') will support the electrical equipment. The electrical equipment pads will contain inverters, switchgear and transformers that will step-up the voltage prior to interconnecting with Eversource's local distribution circuit. The solar PV project will interconnect with the utility at distribution voltage on the property at the limit of the right of way. This connection will utilize a combination of underground conduits and overhead wiring and equipment required by the utility company. An emergency system cut-off switch will be installed in a location designated by Eversource.



## Access Road

The arrays on each parcel will be accessed via a new 16-foot wide access road. The access road entrance to each parcel is on Woods Hill Road. The proposed access road will be comprised of approximately 6 inches of dense graded crushed stone or clean, uncoated aggregate base course (ABC) (per CT DEEP standards) placed above existing grades. Minor grading may be required along the proposed access road in select locations based on topography.

## Vegetation Removal

The project also consists of select removal and clearing of existing vegetation to minimize shade impacts. Portions of this work will occur approximately 75 to 100 feet from delineated inland wetlands. Erosion and sedimentation controls will be installed around the project site prior to vegetation removal. The vegetation will be cut and stumps will remain. All cut vegetation will be chipped on-site and either removed and disposed, or left in place to further stabilize the site. The ground beneath the solar arrays will be planted with fescue species. The aisles will be planted with a low-growing solar array mix.

RES and/or its authorized subcontractors will perform site maintenance to ensure safety and prevent shading impacts. Mowing of the grass between the rows of racks may occur as needed but estimated at twice per year. No herbicides or chemicals will be used to manage vegetation.

## Photovoltaic System Description

The project design prioritizes minimizing potential impacts to wetland resource areas, while considering Pomfret zoning regulations, cost implications, system operation, array constructability, and ongoing operation and maintenance factors. The following table presents a summary of the details of the solar array.

**TABLE 1**  
Solar System Summary

---

<b>SYSTEM SUMMARY</b>	
System Size:	25.6 MW <sub>(DC)</sub> / 19.25 <sub>(AC)</sub>
Racking System:	Driven Racking System (Racking approximately 15 ft. apart)
Photovoltaic Modules:	(80,500) 310 watt solar PV modules (4 X 5 landscape layout)
Inverters:	Approximately 19.26 MW inverters
Transformer:	Not specified at this time
Tilt Angle:	25°
Data System:	Data Acquisition System (DAS) for remote monitoring – Model to be determined.

---

## Project Schedule

The preliminary schedule for the project is presented below in Table2:

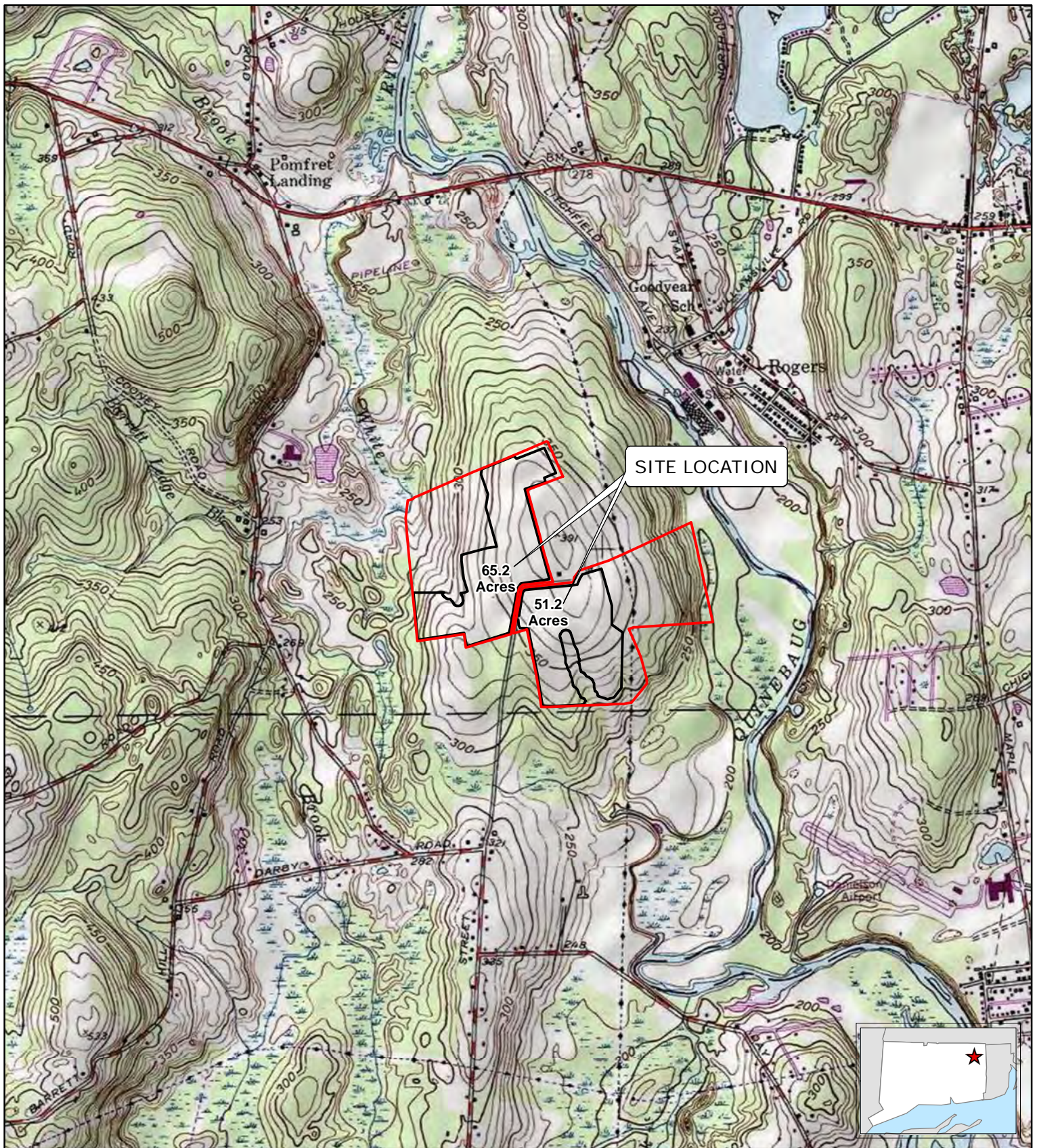
**TABLE 2**  
Project Schedule

<b>Project Phase</b>	<b>Timeframe</b>
System Design	September 2015 – December 2015
CSC Siting Council/ Permitting	December 2015 – April 2016
Interconnection Study/ Approval	October 2015 – December 2015
Procurement	April 2016 – June 2016
Construction	July 2016 – October 2016

## **Appendix B**

### Maps/ Figures



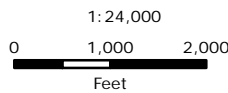


**Legend**

- Site Parcels
- Project Area Boundary



Based on USGS Topographic Map for  
 Danilson, Revised 1970.  
 Contour Interval Equals 10-feet.

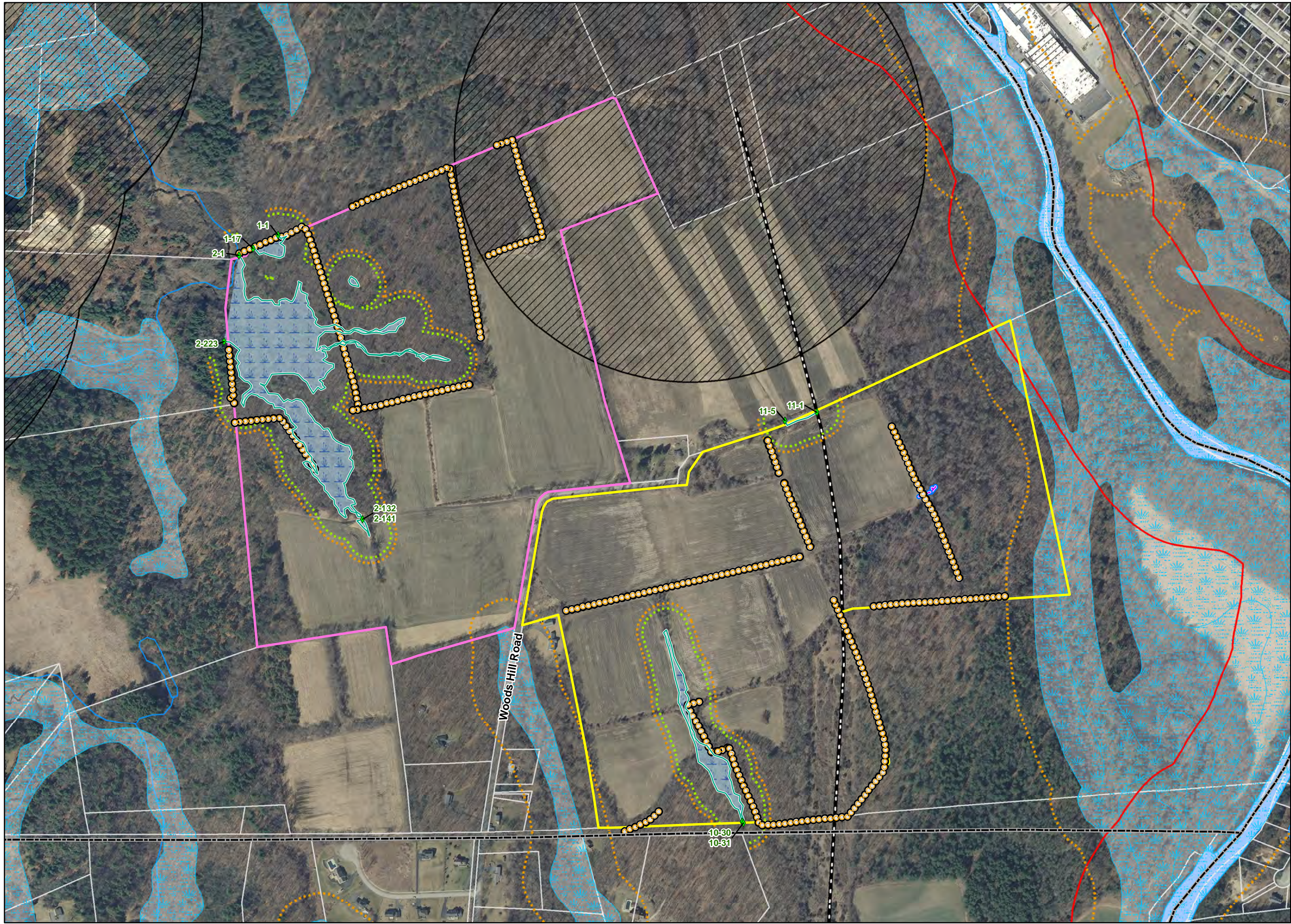


**FIGURE 1**  
**PROJECT LOCATION MAP**  
 Woods Hill Road Solar Project  
 Pomfret, Connecticut

October 2015



FIGURE 2  
Existing Conditions  
Map



**LEGEND**

- Site Parcel A (113 Acres)
- Site Parcel B (114 Acres)
- Delineated Wetland Boundary
- ◆ Start/End Wetland Flag
- Wetland Area
- CT DEEP Inland Wetland Soils
- 120' Wetland Buffer
- 150' Upland Review Area
- 500' Upland Review Area
- Watercourse
- Waterbody
- Natural Diversity Database Area
- Stone Wall
- Drainage Channel
- 345 Kv Transmission Line
- Parcel Boundary
- Town Boundary

**LOCUS MAP**

N

0      250      500  
Feet  
1:6,000

**NOTES**

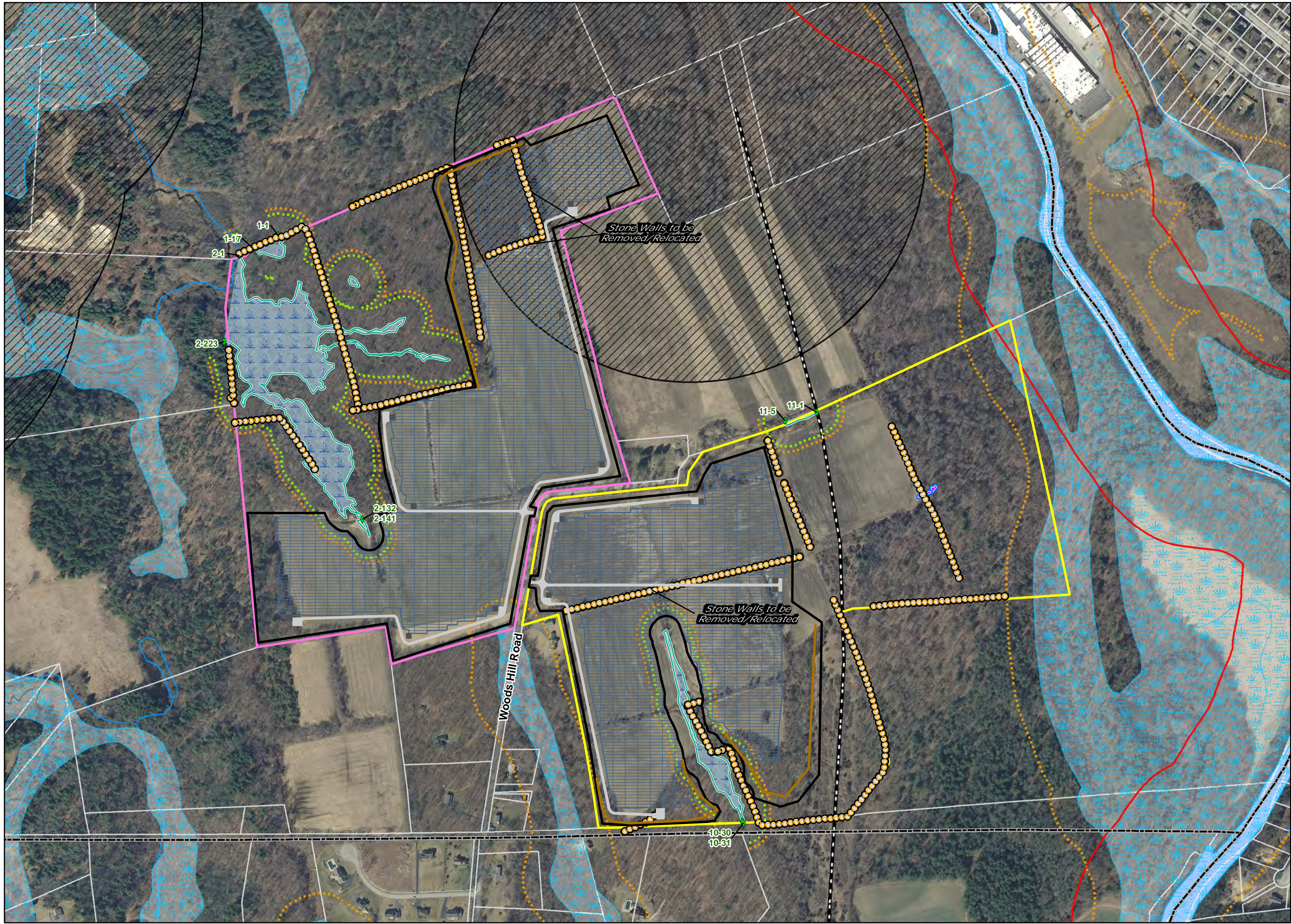
1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
2. 2012 imagery provided by CT DEEP.

Woods Hill Road  
Solar Project  
Pomfret, Connecticut

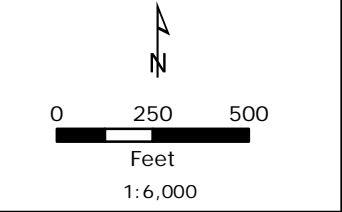
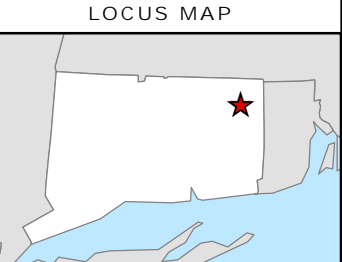
October 2015



FIGURE 3  
Proposed Conditions  
Map



- LEGEND
- Site Parcel A (113 Acres)
  - Site Parcel B (114 Acres)
  - Project Area (~116 Acres)
  - Proposed Solar Panels
  - Access Road
  - Equipment Pad
  - Proposed Limits of Tree Clearing
  - Delineated Wetland Boundary
  - Start/End Wetland Flag
  - Wetland Area
  - CT DEEP Inland Wetland Soils
  - 120' Wetland Buffer
  - 150 Foot Upland Review Area
  - 345 Kv Transmission Line
  - 500 Foot Upland Review Area
  - Watercourse
  - Waterbody
  - Natural Diversity Database Area
  - Stone Wall
  - Drainage Channel
  - Parcel Boundary
  - Town Boundary



- NOTES
1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
  2. 2012 imagery provided by CT DEEP.

Woods Hill Road  
Solar Project  
Pomfret, Connecticut

October 2015





Soil Map—State of Connecticut



Map Scale: 1:6,940 if printed on B landscape (17" x 11") sheet.  
0 100 200 400 600 Meters  
0 300 600 1200 1800 Feet  
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84



Natural Resources  
Conservation Service


Web Soil Survey  
National Cooperative Soil Survey

3/23/2015  
Page 1 of 4




### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)




















**Soils**

 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000. Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut  
 Survey Area Data: Version 13, Oct 28, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 28, 2011—May 12, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



## Map Unit Legend

State of Connecticut (CT600)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2	Ridgebury fine sandy loam	3.9	0.8%
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	18.2	3.6%
18	Catden and Freetown soils	7.1	1.4%
23A	Sudbury sandy loam, 0 to 5 percent slopes	6.8	1.4%
29A	Agawam fine sandy loam, 0 to 3 percent slopes	4.2	0.8%
36A	Windsor loamy sand, 0 to 3 percent slopes	3.9	0.8%
38C	Hinckley gravelly sandy loam, 3 to 15 percent slopes	54.3	10.9%
38E	Hinckley gravelly sandy loam, 15 to 45 percent slopes	3.2	0.6%
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes	50.3	10.1%
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	114.1	22.9%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	23.8	4.8%
47C	Woodbridge fine sandy loam, 2 to 15 percent slopes, extremely stony	61.3	12.3%
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	0.4	0.1%
60C	Canton and Charlton soils, 8 to 15 percent slopes	3.9	0.8%
62C	Canton and Charlton soils, 3 to 15 percent slopes, extremely stony	18.8	3.8%
62D	Canton and Charlton soils, 15 to 35 percent slopes, extremely stony	9.0	1.8%
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky	41.2	8.3%
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	8.2	1.6%
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	4.6	0.9%

State of Connecticut (CT600)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	13.1	2.6%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	10.8	2.2%
101	Occum fine sandy loam	5.4	1.1%
102	Pootatuck fine sandy loam	10.7	2.1%
103	Rippowam fine sandy loam	19.4	3.9%
306	Udorthents-Urban land complex	0.5	0.1%
W	Water	2.1	0.4%
<b>Totals for Area of Interest</b>		<b>499.1</b>	<b>100.0%</b>



# Woods Hill Road Solar Project (Pomfret) Historic Mapping - 1934 and 2012 Aerial Photos

**UConn** University Libraries  
**MAGIC**

MAGIC UConn People

Search... Go

Home About Aerial Photos Data Maps How Do I... Help Collaborations

## Neighborhood Change in Connecticut, 1934 to Present

Want to compare 1934, 1990, 2004, 2008, and 2012 using a transparency tool? [Check out our Connecticut Aerial Photography Interactive Map Interface](#)



Attention ArcGIS and other GIS software users! The 1934 Aerial Photography layer is available via [MAGIC's WMS](#).

Use the search box below to locate an address in Connecticut.

woods hill road, pomfret, ct

Find Address

Toggle map layers

CT Towns

Search any Connecticut address to compare aerial imagery from two time periods, side by side. Our default map displays 1934 versus the current satellite view (with additional layers from the 1950s, 1970s, and 1990s to come). For example, view the influence of post-war interstate highway development on urban neighborhoods (such as [the I-84 exchange in Hartford's Parkville neighborhood](#)), or suburban commercial and residential development on formerly rural farmland (such as [WestFarms Mall in Farmington/West Hartford](#)).



Copy the dynamic web link below to share the map currently shown above:

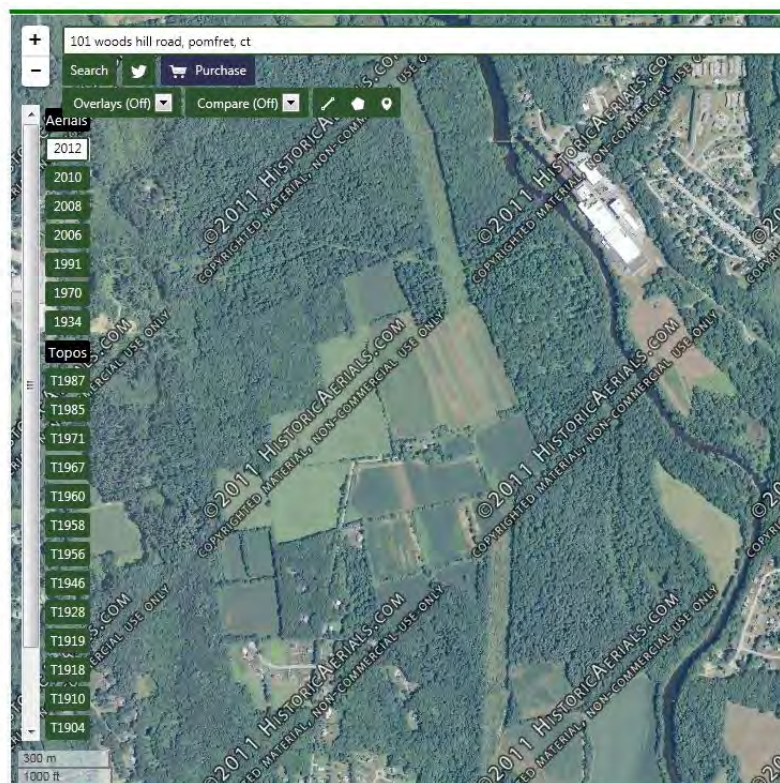
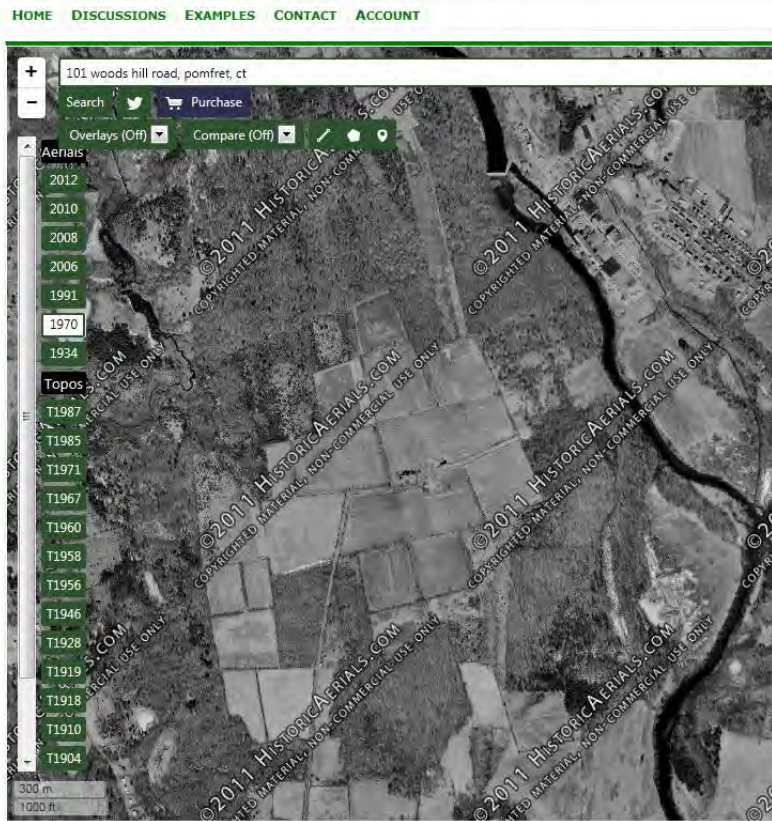
[http://magic.lib.uconn.edu/mash\\_up/1934.html?lat=41.7626&long=-72.6795&layerA=1934&layerB=hybrid&zoom=15](http://magic.lib.uconn.edu/mash_up/1934.html?lat=41.7626&long=-72.6795&layerA=1934&layerB=hybrid&zoom=15)

Read more and comment at [On The Line](#).



# Woods Hill Road Solar Project (Pomfret) Historic Mapping - 1970 and 2012 Aerial Photos

[Source: Historic Aerials.com]





# Woods Hill Road Solar Project (Pomfret) Historic Mapping - 1990 and 2012 Aerial Photos


## Neighborhood Change in Connecticut, 1934 to Present

Want to compare 1934, 1990, 2004, 2006, 2008, and 2012 using a transparency tool? [Check out our Connecticut Aerial Photography Interactive Map Interface](#)


Attention ArcGIS and other GIS software users! The 1934 Aerial Photography layer is available via [MAGIC's WMS](#).

**Use the search box below to locate an address in Connecticut.**  
woods hill road, pomfret, ct

**Toggle map layers**  
 CT Towns



Search any Connecticut address to compare aerial imagery from two time periods, side by side. Our default map displays 1934 versus the current satellite view (with additional layers from the 1950s, 1970s, and 1990s to come). For example, view the influence of post-war interstate highway development on urban neighborhoods (such as [the I-84 exchange in Hartford's Parkville neighborhood](#)), or suburban commercial and residential development on formerly rural farmland (such as [WestFarms Mall in Farmington/West Hartford](#)).



Copy the dynamic web link below to share the map currently shown above:

[http://magic.lib.uconn.edu/mash\\_up/1934.html?lat=41.8321&long=-71.9177&layerA=1990&layerB=hybrid&zoom=15](http://magic.lib.uconn.edu/mash_up/1934.html?lat=41.8321&long=-71.9177&layerA=1990&layerB=hybrid&zoom=15)

Read more and comment at [On The Line](#).

# Woods Hill Road Solar Project (Pomfret) Historic Mapping - 2004 and 2012 Aerial Photos

**UConn** University Libraries **MAGIC** © MAGIC UConn People

Search... Go

Home About ▾ Aerial Photos ▾ Data ▾ Maps ▾ How Do I... Help Collaborations ▾

## Neighborhood Change in Connecticut, 1934 to Present

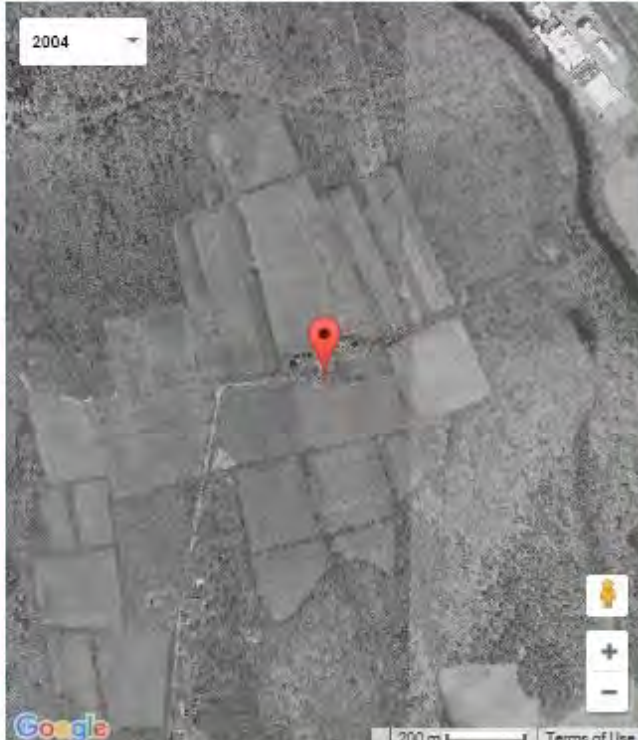
Want to compare 1934, 1990, 2004, 2006, 2008, and 2012 using a transparency tool? [Check out our Connecticut Aerial Photography Interactive Map Interface](#)

Attention ArcGIS and other GIS software users! The 1934 Aerial Photography layer is available via [MAGIC's WMS](#).


Use the search box below to locate an address in Connecticut.  
woods hill road, pomfret, ct

Toggle map layers  
 CT Towns

2004



Satellite



Search any Connecticut address to compare aerial imagery from two time periods, side by side. Our default map displays 1934 versus the current satellite view (with additional layers from the 1950s, 1970s, and 1990s to come). For example, view the influence of post-war interstate highway development on urban neighborhoods (such as the [I-84 exchange in Hartford's Parkville neighborhood](#)), or suburban commercial and residential development on formerly rural farmland (such as [WestFarms Mall in Farmington/West Hartford](#)).

Copy the dynamic web link below to share the map currently shown above:

[http://magic.lib.uconn.edu/mash\\_up/1934.html?lat=41.8321&long=-71.9177&layerA=2004&layerB=hybrid&zoom=15](http://magic.lib.uconn.edu/mash_up/1934.html?lat=41.8321&long=-71.9177&layerA=2004&layerB=hybrid&zoom=15)

Read more and comment at [On The Line](#).



# Woods Hill Road Solar Project (Pomfret) Historic Mapping - 2006 and 2012 Aerial Photos

**UConn** University Libraries  
**MAGIC**

MAGIC UConn People

Search... Go

Home About Aerial Photos Data Maps How Do I... Help Collaborations

## Neighborhood Change in Connecticut, 1934 to Present

Want to compare 1934, 1990, 2004, 2006, 2008, and 2012 using a transparency tool? [Check out our Connecticut Aerial Photography Interactive Map Interface](#)



Attention ArcGIS and other GIS software users! The 1934 Aerial Photography layer is available via [MAGIC's WMS](#).

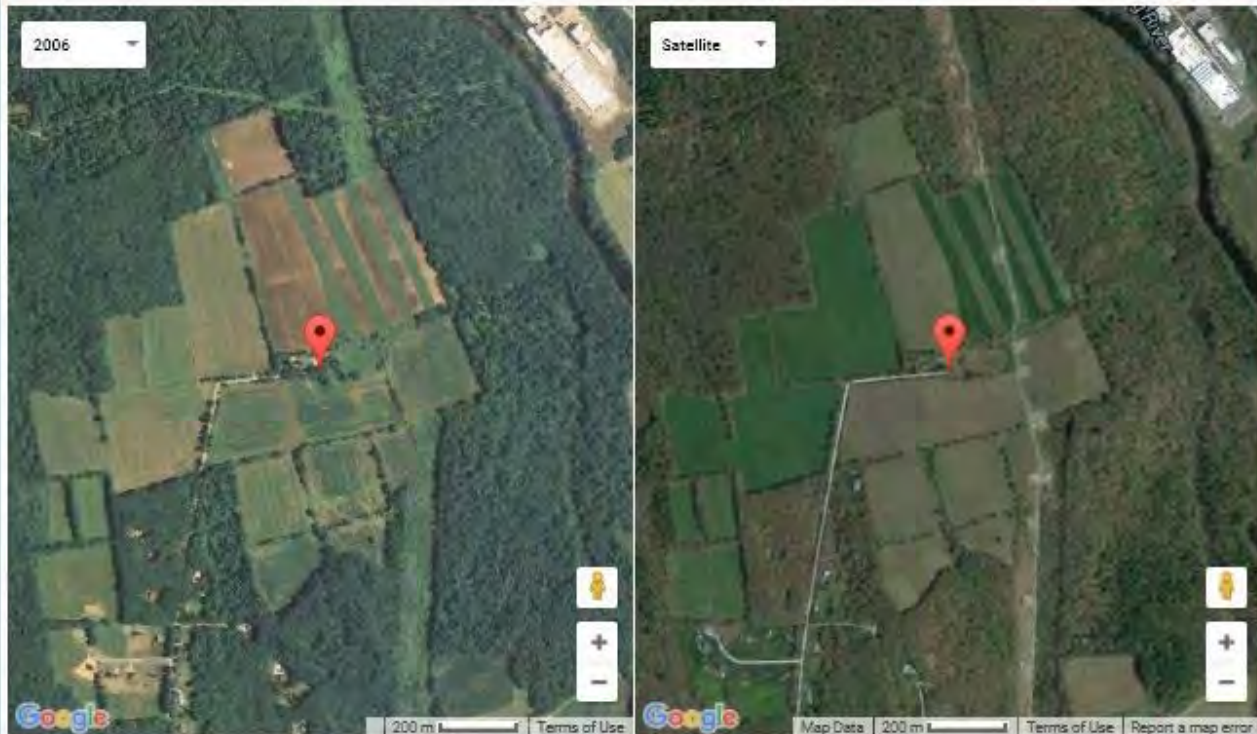
Use the search box below to locate an address in Connecticut.

woods hill road, pomfret, ct

Find Address

Toggle map layers

CT Towns



Search any Connecticut address to compare aerial imagery from two time periods, side by side. Our default map displays 1934 versus the current satellite view (with additional layers from the 1950s, 1970s, and 1990s to come). For example, view the influence of post-war interstate highway development on urban neighborhoods (such as [the I-84 exchange in Hartford's Parkville neighborhood](#)), or suburban commercial and residential development on formerly rural farmland (such as [WestFarms Mall in Farmington/West Hartford](#)).



Copy the dynamic web link below to share the map currently shown above:

[http://magic.lib.uconn.edu/mash\\_up/1934.html?lat=41.8321&long=-71.9177&layerA=2006&layerB=hybrid&zoom=15](http://magic.lib.uconn.edu/mash_up/1934.html?lat=41.8321&long=-71.9177&layerA=2006&layerB=hybrid&zoom=15)

Read more and comment at [On The Line](#).

**Appendix C**  
Site Photographs





**Photo 1:** Parcel B - View of the western farm field, facing west toward the proposed tree removal area and parcel boundary (9/08/2015).



**Photo 2:** Parcel B - View of the tree line within the southern field, facing north (9/8/2015).





**Photo 3:** View of the southwestern farm field in Parcel B, facing southeast (9/8/2015).



**Photo 4:** Parcel B - View of the southern farm field, facing east toward Woods Hill Road (9/8/2015).





**Photo 5:** Parcel B – Representative view of the proposed tree removal area within northern forested portion of parcel and within mapped NDDB polygon, facing east (9/10/2015).



**Photo 6:** Parcel B – Representative view of the proposed tree removal area near northern parcel boundary, facing east (9/10/2015).





**Photo 7:** Parcel A - View of the northern farm field, facing southwest toward Woods Hill Road and parcel boundary (9/23/2015).



**Photo 8:** Parcel A - View of the transmission line and farm field located outside (and east of) the Project Boundary, facing south (9/25/2015).





**Photo 9:** Parcel A - View of the transmission line located outside (and east of) the Project Boundary, facing north (9/25/2015).



**Photo 10:** Parcel A - View of the proposed tree removal area and eastern Project Boundary from the transmission line Right of Way, facing west (9/25/15).





**Photo 11:** Parcel A – Representative view of the forested area outside (and east of) the Project Boundary and transmission line ROW in the eastern portion of the parcel. View facing east (9/25/2015).



**Photo 12:** Parcel A - View of the vegetated access road outside (and east of) the Project Boundary and along the northern parcel boundary, facing east (9/25/15).



**Appendix D**  
Property Record Cards and Tax Maps

## 90 WOODS HILL RD

<b>Location</b>	90 WOODS HILL RD	<b>Assessment</b>	\$14,050
<b>Mblu</b>	43/ A/ 004.00/ /	<b>Appraisal</b>	\$673,500
<b>Acct#</b>	T0167000	<b>PID</b>	1904
<b>Owner</b>	TYLER CHARLES H & WILLIAM F III	<b>Building Count</b>	1

### Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2014	\$0	\$673,500	\$673,500

Assessment			
Valuation Year	Improvements	Land	Total
2014	\$0	\$14,050	\$14,050

### Owner of Record

<b>Owner</b>	TYLER CHARLES H & WILLIAM F III	<b>Sale Price</b>	\$0
<b>Co-Owner</b>	DBA TYLER BROTHERS	<b>Certificate</b>	
		<b>Book &amp; Page</b>	0233/0175
		<b>Sale Date</b>	10/28/2004
		<b>Instrument</b>	1J

### Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
TYLER CHARLES H & WILLIAM F III			0233/0175	1J	10/28/2004
TYLER WILLIAM F JR & CHARLES H WM III	\$0		0057/0239		02/05/1987
ALMADA JOAQUIM C			0038/0539		06/18/1963

### Building Information

#### Building 1 : Section 1

**Year Built:**  
**Living Area:** 0  
**Replacement Cost**  
**Less Depreciation:** \$0

#### Building Photo

Building Attributes	
Field	Description
Style	Vacant Land
Model	
Stories:	



Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Full Baths:	
Half Baths:	
Xtra Fixtrs:	
Total Rooms:	
Extra Kitchens	
Whirlpool	
Fireplace	
Xtra Opening	
Blocked FPL	
Gas Fireplace	



(http://images.vgsi.com/photos/PomfretCTPhotos//default.jpg)

**Building Layout**

Building Layout

Building Sub-Areas	Legend
No Data for Building Sub-Areas	

**Extra Features**

Extra Features	Legend
No Data for Extra Features	

**Land**

**Land Use**

**Use Code** 7130  
**Description** 490 - Till D  
**Zone** CB  
**Neighborhood** 0075  
**Alt Land Appr Category** No

**Land Line Valuation**

**Size (Acres)** 113.6  
**Frontage** 0  
**Depth** 0  
**Assessed Value** \$14,050  
**Appraised Value** \$673,500

**Outbuildings**

Outbuildings	Legend
No Data for Outbuildings	

**Valuation History**

<b>Appraisal</b>			
<b>Valuation Year</b>	<b>Improvements</b>	<b>Land</b>	<b>Total</b>
2013	\$0	\$673,500	\$673,500
2012	\$0	\$673,500	\$673,500
2011	\$0	\$673,500	\$673,500

<b>Assessment</b>			
<b>Valuation Year</b>	<b>Improvements</b>	<b>Land</b>	<b>Total</b>
2013	\$0	\$14,050	\$14,050
2012	\$0	\$14,050	\$14,050
2011	\$0	\$14,050	\$14,050

(c) 2014 Vision Government Solutions, Inc. All rights reserved.



### 101 WOODS HILL RD

<b>Location</b>	101 WOODS HILL RD	<b>Assessment</b>	\$19,760
<b>Mblu</b>	43/ A/ 005.00/ /	<b>Appraisal</b>	\$565,500
<b>Acct#</b>	K0076800	<b>PID</b>	1905
<b>Owner</b>	CRISTINA JUANITA R & SHEILA S NABOZNY	<b>Building Count</b>	1

**Current Value**

Appraisal			
Valuation Year	Improvements	Land	Total
2014	\$0	\$565,500	\$565,500

Assessment			
Valuation Year	Improvements	Land	Total
2014	\$0	\$19,760	\$19,760

**Owner of Record**

<b>Owner</b>	CRISTINA JUANITA R & SHEILA S NABOZNY	<b>Sale Price</b>	\$0
<b>Co-Owner</b>		<b>Certificate</b>	
		<b>Book &amp; Page</b>	0165/0210
		<b>Sale Date</b>	11/30/2000

**Ownership History**

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
CRISTINA JUANITA R & SHEILA S NABOZNY			0165/0210	11/30/2000
KIMBALL HARVEY C ESTATE OF	\$0		0052/0299	05/27/1982

**Building Information**

**Building 1 : Section 1**

**Year Built:**  
**Living Area:** 0  
**Replacement Cost**  
**Less Depreciation:** \$0

**Building Photo**

Building Attributes	
Field	Description
Style	Vacant Land
Model	
Stories:	
Occupancy	
Exterior Wall 1	

Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Full Baths:	
Half Baths:	
Xtra Fixtrs:	
Total Rooms:	
Extra Kitchens	
Whirlpool	
Fireplace	
Xtra Opening	
Blocked FPL	
Gas Fireplace	



(http://images.vgsi.com/photos/PomfretCTPhotos//default.jpg)

**Building Layout**

Building Layout

Building Sub-Areas	<u>Legend</u>
No Data for Building Sub-Areas	

**Extra Features**

Extra Features	<u>Legend</u>
No Data for Extra Features	

**Land**

**Land Use**

**Use Code** 7130  
**Description** 490 - Till D  
**Zone** CB/RR  
**Neighborhood** 0075  
**Alt Land Appr Category** No

**Land Line Valuation**

**Size (Acres)** 110.69  
**Frontage** 0  
**Depth** 0  
**Assessed Value** \$19,760  
**Appraised Value** \$565,500

**Outbuildings**

Outbuildings	<u>Legend</u>
No Data for Outbuildings	

**Valuation History**

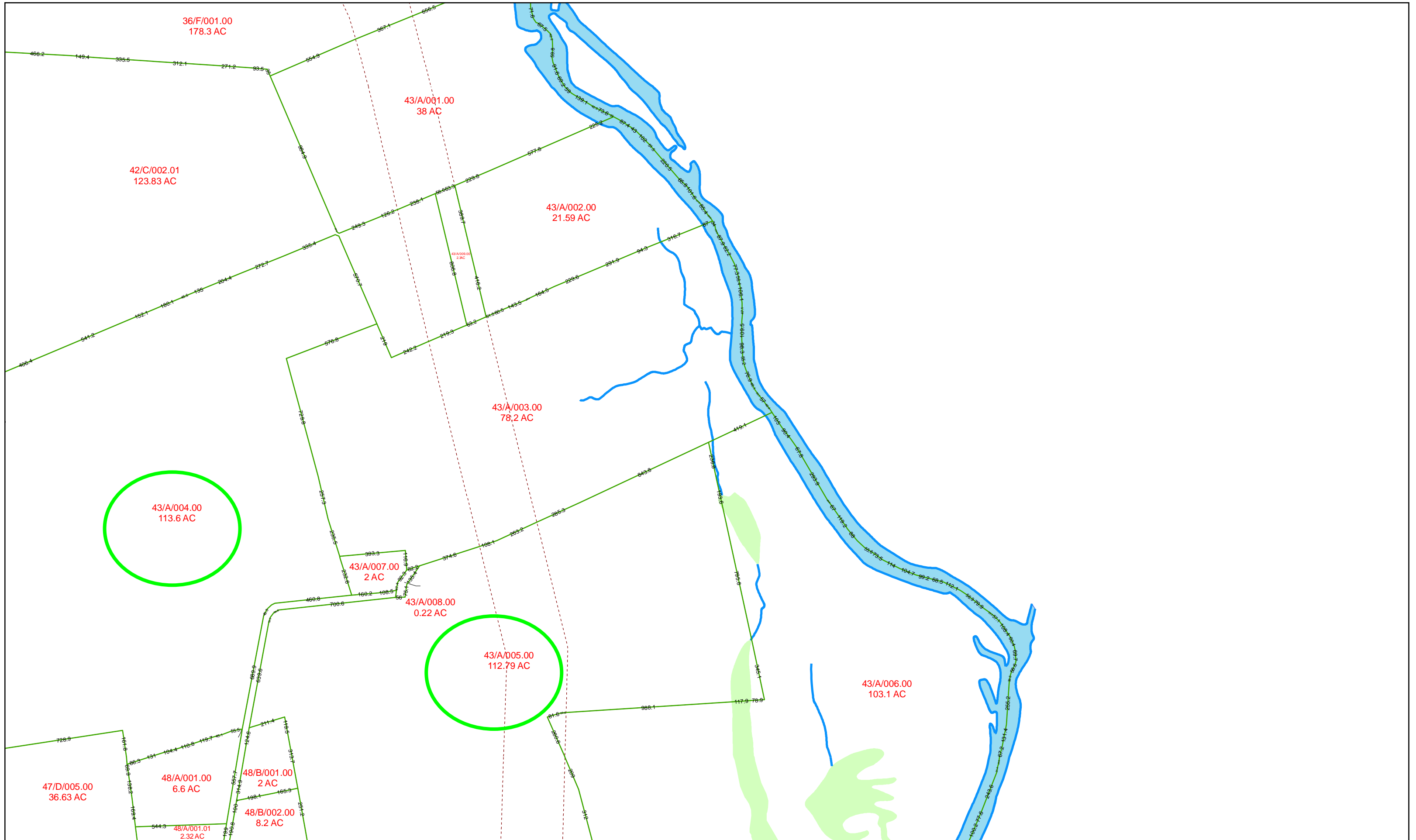
Appraisal
-----------



<b>Valuation Year</b>	<b>Improvements</b>	<b>Land</b>	<b>Total</b>
2013	\$0	\$575,800	\$575,800
2012	\$0	\$575,800	\$575,800
2011	\$0	\$575,800	\$575,800

<b>Assessment</b>			
<b>Valuation Year</b>	<b>Improvements</b>	<b>Land</b>	<b>Total</b>
2013	\$0	\$20,090	\$20,090
2012	\$0	\$20,090	\$20,090
2011	\$0	\$20,090	\$20,090

(c) 2014 Vision Government Solutions, Inc. All rights reserved.

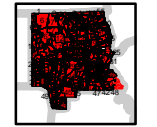
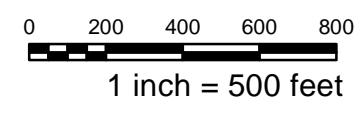
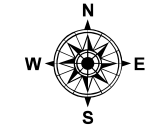


**LEGEND**

- Parcel Lines
- Parcel ROW Boundaries
- Electric Easement
- Gas Easement
- Telephone Easement
- Historic Parcel Lines
- Streams
- LAKE
- SWAMP
- Parcels

NOTE: The areas, boundaries, and dimensions shown on this tax map are derived from planimetric mapping, plans, and deeds of record, and are to be used for tax assessment purposes only and NOT FOR CONVEYANCE.

**TOWN OF POMFRET, CONNECTICUT**  
**March 26, 2013**  
**MAPS ARE FOR TAX PURPOSES ONLY**







TO WHOM IT MAY CONCERN

The following archaeologists, as known to us, meet the professional qualification guidelines of the National Park Service (36 CFR 61):

**ACS [Archaeological Consulting Services]**

Attn: Dr. Gregory Walwer  
10 Stonewall Lane  
Guilford, CT 06437-2949  
Phone: 203-458-0550  
Fax: 203-672-2442  
[acsinfo@yahoo.com](mailto:acsinfo@yahoo.com)

**American Cultural Specialists LLC**

Attn: Lucianne Lavin, Ph.D.  
755 Riverside Avenue  
Torrington, CT 06790  
Phone: 860-626-8210  
Fax: 877-903-0269  
[Luci.ACS@pobox.com](mailto:Luci.ACS@pobox.com)

**Archaeological & Historical Services**

Attn: Ms. Mary Harper  
PO Box 543  
Storrs, CT 06268  
Phone: 860-429-2142  
Fax: 860-429-1724  
[mharper@ahs-inc.biz](mailto:mharper@ahs-inc.biz)

**Aspetuck Landways**

Attn: Dr. Stuart A. Reeve  
PO Box 11024  
Greenwich, CT 06831  
Phone: 203-470-7874  
[Sareeve2000@yahoo.com](mailto:Sareeve2000@yahoo.com)

**Marc L. Banks, Ph.D., LLC**

11 Lincoln Lane  
Weatogue, CT 06089  
Phone: 860-658-7482  
Fax: 860-658-7482  
[banksmarc@sbcglobal.net](mailto:banksmarc@sbcglobal.net)

**BL Companies**

Attn: Mr. Jonathan Libbon  
355 Research Parkway  
Meriden, CT 06450  
Phone: 717-943-1672  
[jlibbon@blcompanies.com](mailto:jlibbon@blcompanies.com)

**Gray & Pape Inc.**

Attn: Mr. Patrick O'Bannon  
60 Valley Street, Suite 103  
Providence, RI 02909  
Phone: 401-273-9900  
Fax: 401-273-9944  
[pobannon@graypape.com](mailto:pobannon@graypape.com)

**Hartgen Archaeological Associates Inc.**

Attn: Mr. Matthew Kirk  
1744 Washington Avenue Ext.  
Rensselaer, New York 12144  
Phone: 518-283-0534  
Fax: 518-283-6276  
[mkirk@hartgen.com](mailto:mkirk@hartgen.com)

**Heritage Consultants LLC**

Attn: Nicholas Griffis, M.A.  
P.O. Box 310249  
Newington, CT 06131  
Phone: 860-667-3001  
Fax: 860-667-3008  
[info@heritage-consultants.com](mailto:info@heritage-consultants.com)

**Historical Perspectives Inc.**

Attn: Ms. Cece Saunders  
Historical Perspectives, Inc.  
P. O. Box 529  
Westport, CT 06881  
Phone: 203-226-7654  
[cece@historicalperspectives.org](mailto:cece@historicalperspectives.org)



Department of Economic and  
Community Development

**Connecticut**  
still revolutionary

**Sarah L Holmes, PhD**

31 Mistuxet Ave  
Mystic, CT 06355  
Phone: 860-501-1446  
[slh@att.net](mailto:slh@att.net)

**Louis Berger Group Inc.**

Attn: Dr. Hope Luhman, Cultural  
Resources  
20 Corporate Woods Boulevard  
Albany, NY 12211  
Phone: 518-514-9303  
Fax: 518-514-0731  
[hluhman@louisberger.com](mailto:hluhman@louisberger.com)

**JMA, a CCRG Company**

Attn: Mr. Martin Dudek  
410 Great Pond Road, Suite B-14  
Littleton, MA 01460  
Phone: 978-793-2579  
[mdudek@johnmilnerassociates.com](mailto:mdudek@johnmilnerassociates.com)

**Public Archaeology Laboratory Inc.**

Attn: Ms. Deborah Cox  
26 Main Street  
Pawtucket, RI 02860  
Phone: 401-728-8780  
Fax: 401-728-8784  
[dcox@palinc.com](mailto:dcox@palinc.com)

**Public Archaeology Survey Team Inc.**

Attn: Ms. Mary Harper  
PO Box 209  
Storrs, CT 06268  
Phone: 860-429-1723  
Fax: 860-429-9454  
[mharper@past-inc.org](mailto:mharper@past-inc.org)

**R. Christopher Goodwin & Associates, Inc.**

Attn: Jeffrey H. Maymon  
241 East 4<sup>th</sup> Street, Suite 100  
Frederick, Maryland 21701  
Phone: 301-694-0428  
Fax: 301-695-5237  
[jmaymon@rcgoodwin.com](mailto:jmaymon@rcgoodwin.com)

**Raber Associates**

Attn: Dr. Michael S. Raber  
81 Dayton Road, PO Box 46  
South Glastonbury, CT 06073  
Phone: 860-633-9026  
Fax: 860-633-9026  
[msraber@aol.com](mailto:msraber@aol.com)

**Cosimo Sgarlata, Ph.D.**

1 Roscoe Street  
Norwalk, CT 06851  
Phone: 203-847-5882  
[Sgarlata@wcsu.edu](mailto:Sgarlata@wcsu.edu)

This information updates and supersedes all previous material provided by the State Historic Preservation Office with respect to the identification of archaeological consultants. Further, this list has been arranged alphabetically; no preferential rating or evaluation should be inferred. The State Historic Preservation Office does not recommend, endorse, or assume responsibility for the quality of work for any individual or firm on this list, nor is there any guarantee, implicit or implied, that any work product produced by those on this list will necessarily meet federal and state requirements.

At its discretion, the State Historic Preservation Office may remove consultants from its informational list if no work has been undertaken in Connecticut over a three year period.

For further information please contact Catherine Labadia, Staff Archaeologist, at  
[catherine.labadia@ct.gov](mailto:catherine.labadia@ct.gov)

*Revised 4/15*



**EXHIBIT L:**  
Environmental Assessment



## **Environmental Assessment**

Solar Facility Installation  
Woods Hill Solar Project

Pomfret, Connecticut

Prepared For:

Woods Hill Solar, LLC

March 2016





# Tighe & Bond

CONTENTS

**Section 1 Project Introduction**

1.1	Photovoltaic System Description .....	1-2
1.2	Project Schedule .....	1-2

**Section 2 Existing Conditions**

2.1	Project Location .....	2-1
2.2	Site Access .....	2-1
2.3	Wetland Delineation .....	2-1
2.4	Habitat Types .....	2-2
	2.4.1 Wetland Habitats .....	2-2
	2.4.2 Upland Habitats .....	2-5
2.5	Vernal Pools .....	2-7
2.6	Breeding Bird Inventory .....	2-8
2.7	Federal and State-Listed Species .....	2-12
2.8	Water Supply Areas .....	2-14
2.9	Water Quality .....	2-14
2.10	Scenic Areas .....	2-14
2.11	Historic and Archaeological Resources .....	2-14
2.12	Geology and Soils .....	2-15
2.13	Floodplain Areas .....	2-15
2.14	Recreational Areas .....	2-15
2.15	Noise .....	2-15
2.16	Lighting .....	2-15
2.17	Coastal Zone Management Areas .....	2-16
2.18	Other Surrounding Features .....	2-16

**Section 3 Effects on the Environment**

3.1	Proposed Project Development .....	3-1
3.2	Public Health and Safety .....	3-2
3.3	Local, State and Federal Land Use Plans .....	3-3
3.4	Existing and Future Development .....	3-3
3.5	Roads .....	3-3
3.6	Wetlands and Watercourses .....	3-3
3.7	Wildlife Impact Assessment .....	3-3
3.8	Vernal Pool Impact Assessment .....	3-4
3.9	Breeding Bird Impact Assessment .....	3-5
3.10	Wildlife Impact Mitigation Measures .....	3-6
	3.10.1 General Breeding Bird Protection Measures .....	3-6
	3.10.2 Grassland Bird Protection Measures .....	3-6
	3.10.3 Bat Protection Measures .....	3-7
3.11	Water Supply Areas .....	3-7



3.12	Water Quality .....	3-7
3.13	Air Quality.....	3-7
3.14	Scenic Areas.....	3-8
3.15	Historic and Archaeological Resources .....	3-8
3.16	Geology and Soils.....	3-8
3.17	Floodplain Areas.....	3-9
3.18	Recreational Areas.....	3-9
3.19	Noise.....	3-9
3.20	Lighting .....	3-9
3.21	Coastal Zone Management Features.....	3-9
3.22	Other Surrounding Features.....	3-9

## **Section 4 Conclusion**

## **Section 5 References**

### **Appendices**

#### **A Figures**

- 1- Project Location Map
- 2- Existing Conditions Map
- 3- Habitat Cover Map
- 4- Surrounding Features Map
- 5- Proposed Conditions Map

#### **B Soil Report**

#### **C Photo Location Key and Site Photographs**

#### **D Wetland Protection Program**

#### **E Resumes – Wildlife Habitat Assessment and Wetland Delineation**

### **Tables**

Solar System Summary (1-1)

Project Schedule (1-2)

Summary of Wetland and Watercourse Characteristics (2-1)

Dominant Plant Species, Wetland Habitat Types (2-2)

Dominant Plant Species, Upland Habitat Types (2-3)

Greatest Conservation Need (GCN) Species by Habitat Type (2-4)

Potential Breeding Birds, Woods Hill Road, Pomfret (2-5)

State-Listed Bird Species Identified in Breeding Bird Inventory (2-6)

Non-Residential Features within Two Miles of Project Area (2-7)

GCN Species Affected by Habitat Loss (By Habitat Type) (3-1)



# Section 1

## Project Introduction

Woods Hill Solar, LLC retained Tighe & Bond, a full service engineering and environmental consulting firm, to prepare this Environmental Assessment (“EA”) for the proposed installation of an approximately 22 MW (DC) / 17.61 MW (AC) solar ground-mounted solar photovoltaic system in the Town of Pomfret, Connecticut (the “Project”). Figure 1, Project Location Map, depicts the Project location and surrounding area.

This EA has been completed to support RES’ submission of a Petition for Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the construction, maintenance, and operation of the Project.

The “Site”, as defined herein, consists of two separate and abutting parcels (Parcel A and Parcel B) located near the terminus of Woods Hill Road in Pomfret, Connecticut. Parcel A (approximately 115 acres) is located to the south/ east of the terminus of Woods Hill Road. Parcel B (approximately 113 acres) is located to the north/ west of Woods Hill Road. The total Site area is approximately 228 acres. As proposed, the limit of work of the proposed project will occupy approximately 102 acres of the 228-acre project Site (42.78 acres of Parcel A and 59.67 acres of Parcel B). 50% of the project footprint is secured under an Option-to-Purchase agreement and 50% is secured under an Option-to-Lease agreement.

The proposed solar facility will include the following:

- Approximately 69,882 315 watt solar PV modules (4 x 5 landscape layout)
- Driven metal post foundation system. Racks will run east-west and will be mounted facing south at a fixed 25 degree angle to ground surface. The rows of racks will be spaced approximately 16 feet apart.
- Construction of a new 12'-wide gravel access road
- Installation of 10 reinforced concrete electrical equipment pads (32' x 48') to support inverters, switchgear and a transformer
- Selective vegetation clearing on both parcels
- Vegetation screening is proposed at two locations along Woods Hill Road and a third location is proposed within Parcel A
- Underground conduits will convey power from the equipment pads to the interconnect location.

In totality, the “Project Area” would encompass approximately 102 acres to accommodate the solar arrays, associated equipment, access and tree-free zones (to mitigate shading effects). This will require clearing of approximately 16 acres of existing upland forest.

Figures depicting the project area are provided in Appendix A. A soil report describing delineated wetlands is provided in Appendix B. Site photographs and a Photo Location Key are provided in Appendix C.

## 1.1 Photovoltaic System Description

The project design prioritizes minimizing potential impacts to wetland resource areas, while considering Pomfret zoning regulations, cost implications, system operation, array constructability, and ongoing operation and maintenance factors. The following table presents a summary of the details of the solar array.

**TABLE 1-1**  
Solar System Summary

<b>SYSTEM SUMMARY</b>	
System Size:	22.01 MW (DC)/ 17.61(AC)
Racking System:	Driven Racking System (Racking approximately 16 ft. apart)
Photovoltaic Modules:	(69,882) 315 watt solar PV modules (4 X 5 landscape layout)
Inverters:	Approximately (#) 2.2MVA Inverters
Transformer:	Not specified at this time
Tilt Angle:	25°
Data System:	Data Acquisition System (DAS) for remote monitoring – Model to be determined.

## 1.2 Project Schedule

The preliminary schedule for the project is presented below:

**TABLE 1-2**  
Project Schedule

<b>Project Phase</b>	<b>Timeframe</b>
System Design	September 2015 – March 2016
CSC Siting Council/ Permitting	April 2016 – June 2016
Interconnection Study/ Approval	November 2015 – May 2016
Procurement	June 2016 – September 2016
Construction	June 2016 – December 2016



## **Section 2**

# **Existing Conditions**

Figure 2, Existing Conditions Map, depicts current conditions on the Site, access, abutting properties, and several key features discussed herein. The purpose of this section is to describe current conditions on the Site. A detailed discussion of the proposed Project's effects on the environment is provided in the following section of this document.

### **2.1 Project Location**

Parcel A (approximately 115 acres) is located to the south/ east of the terminus of Woods Hill Road. Parcel B (approximately 113 acres) is located to the north/ west of Woods Hill Road. The total Site area is approximately 228 acres. The Site is identified by the Pomfret Tax Assessor as two separate and abutting parcels, including:

- #90 Woods Hill Road (MBLU 43/A/004); and,
- #101 Woods Hill Road (MBLU 43/A/005).

The Site consists of relatively flat, cleared, agricultural land with frontage off of Woods Hill Road. Stone walls traverse portions of the agricultural land on both parcels. The Site is located just north of the municipal boundary between Pomfret and Brooklyn, Connecticut. Wooded areas surround the agricultural fields on both parcels. A large Eversource transmission line and right of way traverse Parcel A to the east of the cleared portion. The Quinebaug River is located approximately 1,200 feet to the east of the agricultural land on Parcel A. White Brook is located west of Parcel B.

On Parcel A, site topography in the area proposed for development slopes down generally north to south and north to east from a height of approximately 380 feet to 310 feet North American Vertical Datum of 1988 (NAVD88). On Parcel B, site topography in the area proposed for development slopes down generally east to west from a height of approximately 386 feet to 270 feet NAVD88.

### **2.2 Site Access**

Access to both parcels is via Woods Hill Road.

### **2.3 Wetland Delineation**

On December 5 and December 23, 2015, Matthew Davison, a Connecticut-registered Soil Scientist with Tighe & Bond, reviewed and confirmed wetland boundaries located within 100 feet of the proposed development at the site. The initial wetland delineations were conducted by Tighe & Bond wetland scientists on multiple days in September 2015 (September 1, September 8, September 10, September 23 and September 25, 2015).

Four (4) wetlands and one intermittent watercourse were delineated/ mapped within the vicinity of the project site. The wetlands are summarized below and the wetlands/ watercourse are depicted on the Existing Conditions figure (Figure 2, Appendix A). A copy of the Tighe & Bond Soil Report is included as Appendix B. Matt Davison's resume is provided in Appendix E.

Note that an additional wetland (Wetland 5), described in Section 2.4.1 below was not delineated based on its distance from the proposed limit of work.

**Wetland 1:** The delineated wetland area is characterized as a large forested, hillside seepage (groundwater discharge) wetland (PFO1) located on the west side of a drumlinoid landform that is comprised of thick till. This wetland receives surface water runoff from the upgradient forest and farm fields and drains towards a large emergent wetland and White Brook located off-site to the west. Indicators of both diffuse and channelized (intermittent watercourses) surface water movement were observed throughout the delineated wetland area; however, no surface water was present at the time of the delineation.

**Wetland 2:** Wetland 2 is a small isolated forested wetland with a seasonally saturated hydrology. This wetland was not delineated.

**Wetland 3:** The delineated wetland is characterized as a narrow hillside seepage (groundwater discharge) wetland and intermittent watercourse that collects runoff from the upgradient, till dominated agricultural fields. This wetland forms within a hedgerow between adjacent agricultural fields and discharges downslope to a forested area along the southern site boundary.

**Wetland 4:** The delineated wetland is a small area located in an abandoned access road between farm fields in the northeastern parcel boundary.

## 2.4 Habitat Types

A wildlife habitat assessment was conducted at the site in December 2015 by Eric Davison, Davison Environmental LLC. Mr. Davison is a Wildlife Biologist, Certified Professional Wetland Scientist and Registered Soil Scientist. Eric Davison's resume is provided in Appendix E. There was no snow cover at the time the assessment was completed. The assessment included wetland and upland habitat types, preliminary potential vernal pool evaluation, breeding bird inventory, and breeding bird impact assessment and protection measures.

### 2.4.1 Wetland Habitats

Five wetland habitat areas occur on the site; two on the northern parcel and three on the southern parcel. Table 2-1 summarizes the wetland type and hydrologic regime. Table 2-2 lists the dominant plant species present in each wetland habitat type. The characteristics of each of the five wetlands is described in the following sections.



**Table 2-1: Summary of Wetland and Watercourse Characteristics**

Wetland #	Habitat Type	Hydrologic Regime
1	Forested	SS
2	Forested	SS
3	Shrub/forested	SS
4	Wet meadow	SS
5	Forested/shrub/marsh	SF
<p><u>Wetland Hydrologic Regimes</u>                      (SS) Seasonally saturated – the soil is saturated to the surface, especially early in the growing season, but unsaturated conditions prevail by the end of the season in most years. Surface water is absent except for groundwater seepage and overland flow.                       (SF) Seasonally flooded – surface water is present for extended periods, especially early in the growing season, but is absent by the end of the season in most years. When surface water is absent, the water table is often near the land surface.</p>		

**Table 2-2: Dominant Plant Species, Wetland Habitat Types**

Forested Wetland		
Trees	Shrubs	Herbs, vines, and other groundcover
Pin Oak ( <i>Quercus palustris</i> )	Skunk Cabbage ( <i>Symplocarpus foetidus</i> )	Sphagnum Moss ( <i>Sphagnum flexuosum</i> )
Red Oak ( <i>Quercus rubra</i> )	Winterberry ( <i>Ilex verticillata</i> )	Cinnamon Fern ( <i>Osmundastrum cinnamomeum</i> )
Swamp White Oak ( <i>Quercus bicolor</i> )	Sweet Pepperbush ( <i>Clethra alnifolia</i> )	Sensitive Fern ( <i>Onoclea sensibilis</i> )
Red Maple ( <i>Acer rubrum</i> )	Highbush Blueberry ( <i>Vaccinium corymbosum</i> )	Tussocks Sedge ( <i>Carex stricta</i> )
American Elm ( <i>Ulmus Americana</i> )	Bramble ( <i>Rubus fruticosus</i> )	Grapevine ( <i>Vitis sp.</i> )
	Japanese Barberry ( <i>Berberis thunbergii</i> )	Goldenrod ( <i>Solidago</i> )
	Spicebush ( <i>Lindera benzoin</i> )	Arrowleaf Tearthumb ( <i>Polygonum sagittatum</i> )
	Burning bush ( <i>Euonymus alatus</i> )	Reed Canary Grass ( <i>Phalaris arundinacea</i> )
	Speckled Alder ( <i>Alnus incana</i> )	
Marsh/Shrub Swamp		
	Shrubs	Herbs, vines, and other groundcover
Limited trees present	Buttonbush ( <i>Cephalanthus occidentalis</i> )	Reed Canary Grass ( <i>Phalaris arundinacea</i> )
	Silky Dogwood ( <i>Cornus amomum</i> )	Sensitive Fern ( <i>Onoclea sensibilis</i> )
	Winterberry ( <i>Ilex verticillata</i> )	Tussocks Sedge ( <i>Carex stricta</i> )
	Sweet Pepperbush ( <i>Clethra alnifolia</i> )	
	Highbush Blueberry ( <i>Vaccinium corymbosum</i> )	

### Wetland 1

Wetland 1 is a large groundwater slope wetland<sup>1</sup> located in the Northwest portions of the site and consists of a young Red Maple (*Acer rubrum*) dominated tree canopy with a dense Japanese Barberry (*Berberis thunbergii*) understory. The topography is sloping throughout, resulting in a seasonally saturated hydrology with abundant groundwater seeps and shallow surface rills. The steep topography is also of important note, as it is highly unlikely for vernal pools to develop in this wetland. In the lower reaches of the wetland, a small unnamed headwater stream develops and flows north into White Brook. The stream is deeply incised, and the southern (upper) reaches of the stream have a boulder channel with permanent flow. At the stream's confluence with White Brook within the extreme northwest corner of the site, the wetland is not forested, but rather a speckled alder shrub swamp with a narrow bordering floodplain marsh.

Beyond the main body of the wetland, Wetland 1 includes several easterly extensions in which the wetland climbs up the slope within narrow drainageways. These areas are characterized by steep slopes and small eroded and braided intermittent streams. Wetland topsoil is thin throughout which is consistent with wetlands in recent agricultural use.

### Wetland 2

Wetland 2 is a very small isolated groundwater slope forested wetland with a seasonally saturated hydrology. This wetland has identical physical, hydrologic and vegetative characteristics as Wetland 1. The wetland has a small watershed, and therefore the groundwater discharge zone is small in extent and the volume of discharge is small, and as a result the surface flows are quickly captured and infiltrated back into the ground as opposed to flowing downslope into Wetland 1.

### Wetland 3

Wetland 3 lies in the southerly portion of the southern parcel within a cornfield and adjacent hedgerow, extending south into a forested area. The northerly portions of the wetland are marginally wet and consist predominately of an eroded intermittent watercourse. Within the southerly forested portions, the wetland consists entirely of a well-defined and deeply eroded intermittent watercourse which flows in a southerly direction through mixed hardwood forest. Vegetation throughout the wetland is predominantly non-hydrophytic.

### Wetland 4

Wetland 4 is a wet meadow that lies along the northeast boundary of the southern parcel at the edge of a cornfield. The wetland is small and marginally wet (hydrologically). The wetland has a seasonally saturated hydrology. Soils are noted as graded and disturbed, with vegetation consisting of mostly multiflora rose, mugwort, and autumn olive.

### Wetland 5

Wetland 5 is a large forested wetland at the southeast corner of the site. The wetland is a groundwater depression wetland with a seasonally flooded hydrology. Hydrologic surface indicators suggest deep flooding (maximum flooding in excess of 1 foot). The wetland contains a matrix of emergent marsh, shrub swamp and forested cover types. The wetland contains two possible vernal pools along the western perimeter (illustrated as PVP1 and PVP2 on the map) as described in Section 2.5.

---

<sup>1</sup> Groundwater slope wetlands are wetlands that develop on hillsides where groundwater discharges to the surface as springs and seeps (Mitsch and Gosselink, 2007).



### 2.4.2 Upland Habitats

Four upland habitat types are present on the site: hayfield (with hedgerows), old field, mixed hardwood forest, and cornfield. Dominant vegetation present in the mixed hardwood forest and old field habitats are listed in Table 2-3. The hayfields are dominated by cool-season Eurasian feed grasses, mainly orchard grass (*Dactylis glomerata*) with quackgrass also occurring (*Elymus repens*). The cornfield is in active rotation, with the margins of the field consisting of a mixture of weeds, forbs and grasses.

Table 2-3: Dominant Plant Species, Upland Habitat Types

Mixed Hardwood Forest		
Trees	Shrubs	Herbs, vines, and other groundcover
Red Oak ( <i>Quercus rubra</i> )	Barberry ( <i>Berberis</i> )	Christmas Fern ( <i>Polystichum acrostichoides</i> )
White Pine ( <i>Pinus strobus</i> )	Witch-Hazel ( <i>Hamamelis</i> )	Asiatic Bittersweet ( <i>Celastrus orbiculatus</i> )
Gray Birch ( <i>Betula populifolia</i> )	Eastern Red Cedar ( <i>Juniperus virginiana</i> )	Pennsylvania Sedge ( <i>Carex pensylvanica</i> )
Sugar Maple ( <i>Acer saccharum</i> )	Multiflora Rose ( <i>Rosa multiflora</i> )	Cinnamon Fern ( <i>Osmundastrum cinnamomeum</i> )
Hophornbeam ( <i>Ostrya</i> )	Highbush Blueberry ( <i>Vaccinium corymbosum</i> )	Wood Fern ( <i>Dryopteris</i> )
White Oak ( <i>Quercus alba</i> )	Bush Honeysuckle ( <i>Diervilla</i> )	
Black Oak ( <i>Quercus velutina</i> )	Bramble ( <i>Rubus fruticosus</i> )	
Tulip ( <i>Liriodendron tulipifera</i> )	Black Cherry ( <i>Prunus serotina</i> )	
Red Maple ( <i>Acer rubrum</i> )		
Bigtooth Aspen ( <i>Populus grandidentata</i> )		
Musclewood ( <i>Carpinus caroliniana</i> )		
Shagbark Hickory ( <i>Carya ovata</i> )		
Old Field and Hedgerows		
Trees	Shrubs	Herbs, vines, and other groundcover
Apple ( <i>Malus domestica</i> )	Multiflora Rose ( <i>Rosa multiflora</i> )	Mugwort ( <i>Artemisia vulgaris</i> )
Black Cherry ( <i>Prunus serotina</i> )	Autumn Olive ( <i>Elaeagnus umbellata</i> )	Meadowsweet ( <i>Spiraea tomentosa</i> )
	Little Bluestem ( <i>Schizachyrium scoparium</i> )	Goldenrod ( <i>Solidago</i> )
	Highbush Blueberry ( <i>Vaccinium corymbosum</i> )	Indiangrass ( <i>Sorghastrum nutans</i> )
	Lowbush Blueberry ( <i>Vaccinium angustifolium</i> )	Aster ( <i>Aster sp.</i> )
	Eastern Red Cedar ( <i>Juniperus virginiana</i> )	Haircap Moss ( <i>Polytrichum commune</i> )
	Speckled Alder ( <i>Alnus incana</i> )	Winter Rye (cover crop)
	Bramble ( <i>Rubus fruticosus</i> )	Pokeweed ( <i>Phytolacca Americana</i> )
	Bush Honeysuckle ( <i>Diervilla</i> )	Asiatic Bittersweet ( <i>Celastrus orbiculatus</i> )
		Grapevine ( <i>Vitis sp.</i> )
		Knotweed ( <i>Fallopia japonica</i> )



## 2.5 Vernal Pools

Calhoun and Klemens (2002) provides the following operational definition of vernal pools:

*Vernal pools are seasonal bodies of water that attain maximum depths in the spring or fall, and lack permanent surface water connections with other wetlands or water bodies. Pools fill with snowmelt or runoff in the spring, although some may be fed primarily by groundwater sources. The duration of surface flooding, known as hydroperiod, varies depending upon the pool and the year; vernal pool hydroperiods range along a continuum from less than 30 days to more than one year. Pools are generally small in size (<2 acres), with the extent of vegetation varying widely. They lack established fish populations, usually as a result of periodic drying, and support communities dominated by animals adapted to living in temporary, fishless pools. In the region, they provide essential breeding habitat for one or more wildlife species including Ambystomid salamanders (*Ambystoma* spp., called "mole salamanders" because they live in burrows), wood frogs (*Rana sylvatica*), and fairy shrimp (*Eubranchipus* spp.).*

Vernal pool physical characteristics can vary widely while still providing habitat for indicator species. "Classic" vernal pools are natural depressions in a wooded upland with no hydrologic connection to other wetland systems. Often, vernal pools are depressions or impoundments within larger wetland systems. These vernal pool habitats are commonly referred to as "cryptic" vernal pools.

Several species of amphibians depend on vernal pools for reproduction and development. These species are referred to as indicator vernal pool species and their presence in a wetland during the breeding season helps to identify that area as a vernal pool.

Two potential vernal pools (PVPs) were identified on the site. These PVPs are cryptic vernal pools embedded within Wetland 5 which straddles the easterly boundary of the southern parcel. The limits of these PVPs were mapped in the field on December 16, 2015 by wildlife biologist Eric Davison of Davison Environmental, LLC. The seasonal high water mark (based on surface water indicators) of the pools was field located using a Trimble GPS unit capable of sub-meter accuracy and plotted in GIS as illustrated on Figure 3.

These PVPs are large in size and likely have a long hydroperiod capable of supporting a wide array of vernal pool indicator species as well as other wetland-dependent herpetofauna.

Potential vernal pool indicator species include wood frog (*Lithobates sylvatica*) and spotted salamander (*Ambystoma maculatum*). Potential facultative vernal pool species and other herpetofauna include gray treefrog (*Hyla versicolor*), red-spotted newt (*Notopthalmus viridescens*), spring peeper (*Pseudacris crucifer*), green frog (*Lithobates clamitans*), pickerel frog (*Lithobates palustris*), American toad (*Bufo americanus*), snapping turtle (*Chelydra serpentina*), as well as the recently state-listed (special concern) spotted turtle (*Clemmys guttata*). Wetlands 1, 2, 3 and 4 do not have a hydrology suitable to support amphibian breeding by species requiring seasonal flooding, but are suitable for two common salamanders associated with streams and seeps, the two-line salamander (*Eurycea bislineata*) and dusky salamander (*Desmognathus fuscus*).

Additional field work will be completed in early Spring 2016 and the results provided to the CSC.

## 2.6 Breeding Bird Inventory

An inventory of breeding birds was developed by wildlife biologist Eric Davison of Davison Environmental, LLC based on field observations on December 4<sup>th</sup> and 16<sup>th</sup> 2015. The inventory includes all birds that are reasonably expected to breed on the site based on the presence of suitable habitat.

All birds considered potential site breeders are listed in Table 2-5. It should be noted that this inventory does not constitute a detailed breeding bird survey, as such a survey was not possible due to the timing of the project initiation. This list was compiled primarily by reviewing published data on the breeding birds of the State. These sources were analyzed in order to develop the list of birds which were not observed but could potentially breed on the site.

The primary source utilized was *The Atlas of Breeding Birds of Connecticut* (Bevier, 1994), which is the result of a five-year study (1982-1986) of all bird species known to breed in the State. The study is the most comprehensive review to date of Connecticut's breeding birds. Additional resources utilized include DeGraaf and Yamasaki (2001) and others listed in the References section of this report. The initial inventory of potential breeding birds was generated solely based on the presence of suitable habitat. That list was then refined by considering such factors as bio-geographical distribution, the presence or absence of critical habitat features, and minimum patch size requirements. The inventory is subdivided by habitat type; a species is listed under the habitat which represents its primary breeding type. However, a species should be considered to be potentially present within the ecotones associated with their primary habitat at any given time.

This report focuses on species considered to be of high conservation priority in Connecticut as designated in the 2015 Connecticut Wildlife Action Plan. The WAP was created to establish a framework for proactively conserving Connecticut's fish and wildlife, including their habitats. The WAP identifies species of "Greatest Conservation Need" (GCN) species that fall into three categories in descending order of significance from "most important" to "very important" and finally "important". The WAP also identifies 10 key habitat types that support all of the State's GCN species.

A total of 63 birds are identified in the breeding bird inventory (see Table 2-5). This list includes a total of 26 GCN species (42%), nine (9) *important* species, eleven (11) *very important* species, and six (6) *most important* species. The majority of GCN species identified are habitat specialists (i.e., species that tend to utilize a single habitat type) as noted in Table 2-4.



Table 2-4: Greatest Conservation Need (GCN) Species by Habitat Type

Habitat Type	Total
<i>Habitat Specialists</i>	
Hayfield	4
Mixed hardwood forest	6
Old field	6
Forested wetlands	3
Total	19
<i>Habitat Generalists or Edge Species</i>	
Mixed hardwood forest and old field	3
Hayfield and old field	3
Mixed hardwood forest, old field, hayfield	1
Total	7

Winter resident and late fall migrant species observed on the site include the woodcock, black-capped chickadee, northern cardinal, red-winged blackbird, American robin, blue jay, American crow, a mixed sparrow flock and red-tailed hawk.

Approximately 11 acres of old field habitat are present, and while this is relatively small, it meets the generally accepted minimal threshold of 10 acres required to support many shrubland specialists. The total size of the habitat patch is critical, as many shrubland birds are area-sensitive.

Approximately 51 acres of hayfield are present. This is considered a moderate-sized hayfield capable of supporting some grassland specialists, but is not large enough to support grassland birds that require large grasslands, such as the upland sandpiper (*Bartramia longicauda*) or grasshopper sparrow (*Ammodramus savannarum*). Another limiting factor for grassland birds is the presence of cool-season grasses as opposed to warm-season bunch grasses, which many grassland birds require for nesting. Three species of grassland birds are typically associated with a managed hayfield of this size in Connecticut; the eastern meadowlark (*Sturnella magna*), bobolink (*Dolichonyx oryzivorus*), and savannah sparrow (*Passerculus sandwichensis*) (Comins, et. al. 2003). Their ability to successfully breed is dependent entirely upon the hay cutting regime employed by the farmer. Based on Tighe & Bond's discussions with the site owner, these fields are cut three times per growing season, twice in the summer and once in the fall. Due to this intensive management regime, the likelihood of successful grassland bird nesting is low.

A large portion of the Project area consists of active cornfield (Parcel A), and these areas offer minimal habitat for breeding birds. While birds breeding in adjacent habitats may feed on seeds within the weedy field edges or on insects in the exposed soil, the field itself is not suitable bird breeding habitat due to frequent disturbance.

Table 2-5: Potential Breeding Birds, Woods Hill Road, Pomfret

Common Name	Scientific Name	CS	Habitat Type
American Crow	<i>Corvus brachyrhynchos</i>		MHF, OF, HY, C
American Goldfinch	<i>Carduelis tristis</i>		OF, HY, C
American Kestrel	<i>Falco sparverius</i>	SC, MI	HY
American Redstart	<i>Setophaga ruticilla</i>		MHF
American Woodcock	<i>Scolopax minor</i>	MI	FW
Barred Owl	<i>Strix varia</i>		MHF, HY
Black-and-white Warbler	<i>Mniotilta varia</i>	I	MHF
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	VI	MHF, OF
Black-capped Chickadee	<i>Parus atricapillus</i>		MHF
Blue Jay	<i>Cyanocitta cristata</i>		MHF, C, OF
Blue-gray Gnatcatcher	<i>Polioptila caerulea</i>		MHF, OF
Blue-winged Warbler	<i>Vermivora pinus</i>	MI	OF
Bobolink	<i>Dolichonyx oryzivorus</i>	SC, VI	HY
Brown Creeper	<i>Certhia americana</i>	I	FW
Brown Thrasher	<i>Toxostoma rufum</i>	SC, VI	OF
Brown-headed Cowbird	<i>Molothrus ater</i>		HY, OF, MHF, C
Common Grackle	<i>Quiscalus quiscula</i>		MHF
Common Yellowthroat	<i>Geothlypis trichas</i>		FW, SS/M
Downy Woodpecker	<i>Picoides pubescens</i>		MHF
Eastern Bluebird	<i>Sialia sialis</i>		HY
Eastern Kingbird	<i>Tyrannus tyrannus</i>	I	HY, OF
Eastern Meadowlark	<i>Sturnella magna</i>	T, MI	HY
Eastern Wood-Pewee	<i>Contopus virens</i>	I	MHF
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	VI	MHF, OF
Field Sparrow	<i>Spizella pusilla</i>	VI	OF, HY
Gray Catbird	<i>Dumetella carolinensis</i>		FW, SS/M
Great Crested Flycatcher	<i>Myiarchus crinitus</i>		MHF
Great Horned Owl	<i>Bubo virginianus</i>		MHF, HY
Hairy Woodpecker	<i>Picoides villosus</i>		MHF
Hermit Thrush	<i>Catharus guttatus</i>		MHF, FW
Hooded Warbler	<i>Wilsonia citrina</i>		MHF
House Wren	<i>Troglodytes aedon</i>		HY, OF
Indigo Bunting	<i>Passerina cyanea</i>	VI	OF
Louisiana Waterthrush	<i>Seiurus motacilla</i>	VI	FW, S
Mourning Dove	<i>Zenaida macroura</i>		MHF, C

Table 2-5 (Continued): Potential Breeding Birds, Woods Hill Road, Pomfret

	Scientific Name	CS	Habitat Type
Northern Cardinal	<i>Cardinalis cardinalis</i>		MHF, OF, C
Northern Flicker	<i>Colaptes auratus</i>	VI	MHF, OF HY
Northern Mockingbird	<i>Mimus polyglottos</i>		OF, HF, C
Northern Oriole	<i>Icterus galbula</i>	I	OF, HY
Ovenbird	<i>Seiurus aurocapillus</i>	I	MHF
Pileated Woodpecker	<i>Dryocopus pileatus</i>		MHF
Prairie Warbler	<i>Dendroica discolor</i>	MI	OF
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>		MHF
Red-eyed Vireo	<i>Vireo olivaceus</i>		MHF
Red-tailed Hawk	<i>Buteo jamaicensis</i>		HY, MHF
Red-winged blackbird	<i>Agelaius phoeniceus</i>		HY
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	I	OF, MHF
Ruby-throated	<i>Archilochus colubris</i>		OF, HF
Savannah Sparrow	<i>Passerculus sandwichensis</i>	SC, I	HY
Scarlet Tanager	<i>Piranga olivacea</i>	VI	MHF
Song Sparrow	<i>Melospiza Melodia</i>		OF
Tree Swallow	<i>Tachycineta bicolor</i>		HY, C
Tufted Titmouse	<i>Parus bicolor</i>		MHF
Turkey Vulture	<i>Cathartes aura</i>		HY, OF , MHF
White-breasted Nuthatch	<i>Sitta carolinensis</i>		MHF
White-eyed Vireo	<i>Vireo griseus</i>	I	OF
Wild Turkey	<i>Meleagris gallopavo</i>		MHF, HY, C
Wood Duck	<i>Aix sponsa</i>		SS/M
Wood Thrush	<i>Hylocichla mustelina</i>	MI	MHF
Worm-eating Warbler	<i>Helmitheros vermivorus</i>	VI	MHF
Yellow Warbler	<i>Dendroica petechia</i>		OF, HY
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	VI	OF
Yellow-throated Vireo	<i>Vireo flavifrons</i>		MHF, OF
KEY			
WAP Conservation Status: IM – Important; VI – Very Important; MI – Most Important			
SC – State-listed species of special concern			
Habitat Types: MHF – mixed hardwood forest; FW – forested wetland; S – stream; SS/M - shrub swamp/marsh (Wetland 3) HY – hayfield; OF – old field (utility ROW); C – cornfield (edges predominately)			



## 2.7 Federal and State-Listed Species

The US Fish & Wildlife Service (USFWS) issued a Final 4(d) Rule for the Northern Long Eared Bat (NLEB) on January 14, 2016. In order to avoid an “incidental Take” as part of the project, the following tree removal activities must be avoided:

1. Removing a known NLEB-occupied maternity roost tree;
2. Tree removal within 150 feet of a known maternity roost tree between June 1 and July 31, and
3. Any tree removal within ¼ mile of a known “hibernacula” (caves, etc.) at any time of year.

The Petitioner is not aware of any known maternity roost trees or hibernacula in the vicinity of the project area. NDDDB was contacted via email to confirm if NLEB habitat data is available. If information is not available, the Petitioner will document its attempt to find the information and move forward with the project. Generally, however, the Petitioner will avoid tree removal activities between June 1 and July 31.

CTDEEP’s Natural Diversity Data Base (“NDDDB”) program determines the impact of land use projects on state listed species. State agencies are required to ensure that any activity authorized, funded or performed by a state agency does not threaten the continued existence of endangered or threatened species. Maps have been developed to serve as a pre-screening tool to help applicants determine if there is a potential impact to state listed species.

The NDDDB maps represent approximate locations of endangered, threatened and special concern species and significant natural communities in Connecticut. The locations of species and natural communities depicted on the maps are based on data collected over the years by CT DEEP, scientists, conservation groups, and private citizens. These data are compiled and maintained in the NDDDB.

The most recent CTDEEP NDDDB mapping (September 2015) was reviewed to determine if any such species or rare habitats occur within the vicinity of the site. Based on the NDDDB mapping, an NDDDB polygon indicating the presence of a listed species or rare habitat overlaps the northeast portion of the northern parcel. An application was submitted to the CT DEEP NDDDB program on December 10, 2015. A response from NDDDB dated February 2, 2016 indicated that the following extant populations of species are located on or within the vicinity of the site: Hoary Bat (*Lasiurus cinereus*), Red bat (*Lasiurus borealis*), Silver-haired bat (*Lasionycteris noctivagans*) and Frosted elfin butterfly (*Callophrys irus*). Refer to Section 3.7 regarding proposed followup surveys for listed species. The time of year restriction for cutting trees for these listed bat species ranges between May and August. However, no tree removal is proposed within mapped NDDDB habitat areas during this timeframe.

Additionally, five (5) state-listed bird species were identified in the breeding bird inventory. The bird species are listed in Table 2-6 below. These five species were not identified by NDDDB in their response letter.

**Table 2-6: State-Listed Birds Identified in Breeding Bird Inventory**

<b>Species</b>	<b>Suitable Habitat Types</b>	<b>Listing Status</b>
American Kestrel	Hayfield, old field	Special Concern
Brown Thrasher	Old field	Special Concern
Eastern Meadowlark	Hayfield	Threatened
Savannah Sparrow	Hayfield	Special Concern
Bobolink	Hayfield	Special Concern

The American kestrel inhabits a wide variety of open to semi-open habitats including meadows, grasslands, deserts, early old field successional communities, open parkland, agricultural fields, and both urban and suburban areas; regardless of dominant vegetation form present. The breeding territories are characterized by either large or small patches covered by short ground vegetation, with taller woody vegetation either sparsely distributed or lacking altogether with suitable nest trees and perches required. Typical breeding habitat in the northeast or midwest is large (>25 ha) pasture or recently fallowed field, with one or few isolated large dead trees for nesting and several potential perches (Smallwood and Bird, 2002).

Brown thrasher inhabit thickets, brushy hillsides and woodland edges in suburban and rural areas (Bevier, 1994). Maturation of forest and other factors causing loss of early successional habitat are driving the decline in this species. The Site's old field represents suitable breeding habitat for thrasher.

The bobolink, eastern meadowlark and savannah sparrow are grassland bird specialists. Small to moderate sized hayfields are utilized for nesting, with 50% incidence of occurrence in fields that are a minimum of 25 acres in size and minimum area requirement of 5-10 acres, 15-20 acres and 20-40 acres, respectively (Comins, et. al. 2001).

The bobolink is the most common grassland species in the state, although the species has been steadily declining throughout the region (Comins, et. al. 2001). The primary nesting period occurs from mid to late June but can extend into late July (Martin, et. al. 1995). Bobolink generally inhabit mesic to wet (as opposed to dry) meadows, particularly hayfields. Preferred breeding sites are older mixed grass hayfields (>8 years) that include a mosaic of grasses, sedges and broad-leaved forbs.

The eastern meadowlark inhabits upland meadows, pasture and old fields with sparse to dense grasses, preferable in low-lying areas with damp soils, thick layer of dead grass and scattered shrubs and tall forbs for song perches.

The savannah sparrow inhabits upland meadows, pasture and old fields with dense ground vegetation with a mixture of short and tall grasses in moist habitat with a thick layer of dead grass, scattered saplings, shrubs and forbs.

Because these three grassland birds nest on the ground, conventional haying techniques which typically include mechanical harvesting in June often do not allow for full maturation and fledging of young prior to hay harvesting, and as a result nests and nestlings are often destroyed during the process. As discussed in previous sections, these fields are cut three times per growing season, twice in the summer and once in the fall. Due to this intensive management regime, the likelihood of successful breeding by these grassland birds is low.

## 2.8 Water Supply Areas

Based on the CTDEEP Water Quality Classifications Map for Pomfret, CT, there are no public water supply wells proximate to the Site. The closest mapped contributing area to a public water supply is near the intersection of Woods Hill Road and Darby Road in Brooklyn, CT and south of the site. The subject parcels are not located within an Aquifer Protection Area.

## 2.9 Water Quality

Groundwater beneath the Site and within the majority of the subject parcel is classified by CT DEEP as "GA". Designated uses in GA-classified areas include existing private and potential public or private supplies of water suitable for drinking without treatment and base flow for hydraulically-connected surface water bodies.

The Site is located within the Thames River Major Drainage Basin and the Quinebaug River and White Brook Regional Basins.

The site is located within two (2) separate local drainage basins:

- The east side of the Site is associated with the Quinebaug River. This area drains generally to the east via overland flow. The drainage basin number is 3700-00-5+R1.
- The west side of the Site is associated with White Brook. The drainage basin number is 3710-18-3R1.

The Quinebaug River is classified by the CTDEEP as a Class B surface water body. Designated uses for Class B surface water bodies include habitat for fish and other aquatic life and wildlife; recreation and navigation; and industrial and agricultural water supply.

## 2.10 Scenic Areas

Connecticut State Route 169, a National Scenic Byway, is located approximately 1.75 miles west of the project site. The portion of Route 169 in Pomfret Town Center (between Bracy and Woodstock Road) is part of the Pomfret Street Historic District. The only State-designated scenic road located within the Town of Pomfret is Route 244, from Route 97 westerly to Ragged Hill Road (3.10 miles). Route 244 is approximately 4.20 miles north of the project site. No public hiking paths or other potential public non-vehicular trails were found to be present in the vicinity that would provide potential observation points of the Project.

## 2.11 Historic and Archaeological Resources

Potential historic features at the site include several stone walls. The project area is not located within a historic district.

Based on project information submitted to the Connecticut State Historic Preservation Office (SHPO) for review, the SHPO requested that a professional cultural resources assessment and reconnaissance survey be completed prior to construction. In correspondence dated January 21, 2016, the SHPO indicated that portions of the intact and relatively well-drained soils within the project area ("Area of Potential Effect") have an elevated potential to contain significant archaeological resources. The SHPO acknowledged that farming may have compromised the integrity of any archeological deposits, but this should be confirmed by subsurface examination.



Refer to Section 3.1.5 regarding scheduled completion of a Phase 1A Cultural Resources Assessment Survey to determine if the proposed project parcels, or portions thereof, possess no, low, and/or moderate to high potential to produce intact cultural deposits and/or surficial expressions of cultural resources. The results of the Phase 1A survey will determine if a subsequent Phase 1B Cultural Resources Reconnaissance Survey of the entire project area or portions of the project parcels is required.

## 2.12 Geology and Soils

Bedrock geology beneath the Site is identified as the Quinebaug Formation. The Quinebaug Formation is described as gray to dark-gray, medium-grained, well-layered gneiss.

Surficial materials on the majority of the site are comprised of depositions of thick glacial till. The western portion of the site is mapped as sand and gravel. Based on the Connecticut Environmental Conditions Online (CTECO) mapper, the highest point of the project site consists of a drumlin, with a northwest to southeast axis.

Soils vary across the site. Based on a review of the NRCS Soil Survey (Appendix B), the majority of soils mapped within the project area consist of Woodbridge fine sandy loam. The Woodbridge series consists of moderately well drained loamy soils formed in compact, subglacial till. They are very deep to bedrock. They are nearly level to moderately steep soils on till plains, hills, and drumlins. Areas mapped as Prime Farmland Soils and Farmland of Statewide Importance are located within Parcels A and B.

A geotechnical investigation was conducted at the site and a report was completed in February 2016. The report contains recommendations regarding excavation/ fill and bearing surface preparation.

## 2.13 Floodplain Areas

Tighe and Bond reviewed the United States Federal Emergency Management Agency ("FEMA") Flood Insurance Rate Map ("FIRM") for the Site. A FIRM is the official map of a community on which FEMA has delineated both the special hazard areas and risk premium zones applicable to the community. The area of the Site is mapped on FIRM PANEL 18 (0901630018B), dated April 17, 1985. Based upon the reviewed FIRM Map, the Site is designated as Zone C which is defined as an area of minimal flooding.

## 2.14 Recreational Areas

The proposed solar PV array will occupy approximately 102 acres in the Town of Pomfret. Land uses in the vicinity of the Site (in Pomfret and the neighboring communities of Brooklyn and Dayville) include public and private recreational areas. The nearest recreational areas include the Natchaug State Forest located approximately 1.5 miles to the north, and Owen Bell Park approximately 1.7 miles to the northeast.

## 2.15 Noise

A noise study has been completed for the project. Refer to Section 3.19 below and [Exhibit O](#). The Site and vicinity is a rural, agricultural area with sparse residential development.

## 2.16 Lighting

The residences have electricity and lighting.

## 2.17 Coastal Zone Management Areas

The Town of Pomfret is not located within the Coastal Area or Coastal Boundary, as defined by the Coastal Management Act, CGS Section 22a-94(a).

## 2.18 Other Surrounding Features

The locations of non-residential development and other resources within two miles of the Site are listed in Table 2-7 below. Figure 4 (Surrounding Features Map) depicts these locations relative to the Site.

**Table 2-7. Non-Residential Features within 2 Miles of the Site**

Type	Name	Address	Town	Distance to Site
Park	Natchaug State Forest	River Road	Pomfret	1.5 miles
	Owen Bell Park	Hartford Pike	Dayville	1.7 miles
Youth Camp	None within 2 miles of the site.			
Hospital	None within 2 miles of the site.			
Airport	Danielson Airport	Airport Road	Danielson	0.8 miles
Child Day Care	Goodyear Early Childhood	Williamsville Road	Rogers	0.5 miles
Community Center	None within 2 miles of the site.			
Senior Center	None within 2 miles of the site.			
Public School	Killingly Intermediate School	Upper Maple Street	Dayville	1.1 miles
	Killingly Central School	Soap Street	Dayville	1.75 miles
	Killingly High School	Putnam Pike	Dayville	2 miles
Playground	None within 2 miles of the site.			
Historic	Dayville Historic District	Main Street	Danielson	1.5 miles
	Trinity Church	Church Street	Brooklyn	1.9 miles
	Putnam Farm	Spaulding Road	Brooklyn	1.4 miles

---

## Section 3

# Effects on the Environment

The Project will not have any significant adverse effects on the existing environment and ecology, nor will it affect the scenic, historic and recreational resources of the vicinity. A Proposed Conditions Map is included as Figure 5.

### 3.1 Proposed Project Development

The development footprint associated with the Project, including the associated vegetation clearing, includes a total of 102 acres. To facilitate the installation of the solar arrays, associated equipment, and access, and to minimize shading of the arrays, approximately 16 acres of upland forest requires clearing and minor grading.

Proposed activities include selective vegetation clearing, construction of new gravel access roads, and installation of solar PV modules and equipment pads. Approximately 69,882 315 watt solar PV modules (4 x 5 landscape layout) will be installed.

The solar modules will be erected using a driven metal post foundation system. The racks will be installed approximately 16 feet apart. As shown on Figure 5 in Appendix B, portions of the limit of work will be located 75 feet from delineated inland wetlands. The racks will run east-west and will be mounted facing south at a fixed 25 degree angle to ground surface.

The system will include integrated combiner and disconnect switches, and the panel wiring feeds into these switches. From the combiner box, energy will be transmitted to inverters. The subsurface conduit will convey power from the solar array to the interconnection point located along Woods Hill Road, to be determined by Eversource. A distribution interconnection request was filed with Eversource in February 2015. The point of interconnection will be located at the Tracy Road substation five miles northeast of the project site. The impact study was completed in September 2015. The facility study is anticipated to be completed in April 2016.

Approximately 10 reinforced concrete electrical equipment pads (32' x 48') will support the electrical equipment. In addition to the inverters noted above, the electrical equipment pads will also contain switchgear and a transformer that will step-up the power prior to interconnecting with Eversource's local distribution circuit. Underground conduits will convey power from the equipment pads to the interconnect location. An emergency system cut-off switch will be installed in a location designated by Eversource.

The arrays on each parcel will be accessed via new 12-foot wide access roads. The access road entrance to each parcel is on Woods Hill Road. The proposed access road will be comprised of approximately 6 inches of dense graded crushed stone or clean, uncoated aggregate base course (ABC) (per CT DEEP standards) placed above existing grades. Minor grading may be required along the proposed access road in select locations based on topography.

The project also consists of 16 acres of select removal and clearing of existing vegetation to minimize shade impacts. Portions of this work will occur approximately 75 to 100 feet from delineated inland wetlands. Erosion and sedimentation controls will be installed around the project site prior to vegetation removal. The vegetation will be cut and stumps will remain. All cut vegetation will be chipped on-site and either removed and disposed, or left in place to



further stabilize the site. The ground beneath the solar arrays will be planted with fescue species. The aisles will be planted with a low-growing solar array mix.

Vegetation screening is proposed at two locations along Woods Hill Road and a third location is proposed within Parcel A.

Select stone walls and piles within the project area will be removed as part of the clearing and site preparation process. Stone walls and piles outside of the project limit, including those demarcating property boundaries, will be maintained to the fullest extent practicable.

RES and/or its authorized subcontractors will perform site maintenance to ensure safety and prevent shading impacts. Mowing of the grass between the rows of racks may occur as needed but estimated at twice per year. No herbicides or chemicals will be used to manage vegetation.

### 3.2 Public Health and Safety

The Project would be designed to applicable industry, State, and local codes and standards and would not pose a safety concern or create undue hazard to the general public. The facility would not consume any raw materials, would not produce any by-products and would be unstaffed during normal operating conditions. There are no plans to store fuels or hazardous materials at the facility.

Overall, the Project will meet or exceed all health and safety requirements applicable to electric power generation. Each employee working on Site will:

- Receive required general and Site specific health and safety training
- Comply with all health and safety controls as directed by local and state requirements
- Understand and employ the Site health and safety plan while on the Site
- Know the location of local emergency care facilities, travel times, ingress and egress routes; and
- Report all unsafe conditions to the construction manager.

During construction, heavy equipment will be required to access the Site during normal working hours, and it is anticipated that 35 - 40 construction vehicles (average size light-duty) will make daily trips onto the Site. After construction is complete and the unstaffed facility is operable, traffic at the Site will be minimal, consisting of one trip per month on average for periodic maintenance activities.

The solar modules are designed to absorb incoming solar radiation and minimize reflectivity, such that only a small percentage of incidental light will be reflected off the panels. This incidental light is significantly less reflective than common building materials, such as steel, or the surface of smooth water. In addition, a large portion of the Project will be shielded from view due to existing vegetation, proposed landscaping and topographical conditions. The panels will be tilted up toward the southern sky at an approximate angle of 25 degrees, further reducing reflectivity.

### 3.3 Local, State and Federal Land Use Plans

The Project is consistent with local, State, and Federal land use plans, including the Pomfret Plan of Conservation and Development (2002), which outlines the need to encourage non-residential development that is environmentally sensitive. The Project also supports the State's energy policy by developing a renewable energy resource while not having a substantial adverse environmental effect. Although local land use jurisdiction over the Project is preempted by the Siting Council, the Project has been designed to meet the intent of local land use regulations to the extent feasible. The project will meet Town of Pomfret setback requirements.

There are extensive benefits that are realized by a local community both on direct jobs and indirect jobs induced in the community as a result of the project. Additionally, there will be significant sales and property tax or Payment In Lieu of Tax (PILOT) revenues which would be utilized to benefit Pomfret either to offset existing tax burdens or to provide additional services or benefits. Additionally, there are lease payments that have already begun and will continue to provide significant revenues to the landowners.

### 3.4 Existing and Future Development

The Project would benefit the community by improving electrical service for existing and future development in the Town through enhanced capacity. Other than this Project, Tighe & Bond is not aware of any current or future plans to develop the Site.

### 3.5 Roads

Gravel access roads will originate off Woods Hill Road into both Parcels A and B. The access roads will be used to conduct operation and maintenance activities.

### 3.6 Wetlands and Watercourses

No wetlands or watercourses will be directly impacted by the Project. Activities associated with the project will occur a minimum of 75 feet from wetlands or watercourses. No work is proposed within the 300-foot Upland Review Area associated with White Brook or the 500-foot Upland Review Area associated with the Quinebaug River.

The Pomfret Inland Wetlands and Watercourses Commission (IWWC) requires a minimum distance of 120 feet from wetlands and perennial watercourses for "non-residential main-use buildings or structures". Work occurring within the 120-foot "minimal distance" is typically subject to review by the Pomfret IWWC. We understand that CSC review will address issues associated with Town of Pomfret inland wetlands review.

Short term, temporary impacts during construction will be minimized with sedimentation and erosion controls designed, installed and maintained in accordance with the 2002 *Connecticut Guidelines for Soil Erosion and Sediment Control*. RES has also prepared and will implement a Wetland Protection Plan (Appendix D) during construction to provide additional measures to avoid temporary wetland impacts.

### 3.7 Wildlife Impact Assessment

The project area, totaling approximately 102 acres, is sited within three habitat types: hayfield (43 acres), cornfield (37 acres), and mixed hardwood forest (22 acres). The project area will

result in habitat loss predominately within agricultural areas currently managed as hayfield and cornfield. The wildlife value of these areas is limited due to intensive management and low vegetative diversity associated with actively managed agricultural lands. While the edge habitats' associated agricultural lands are highly productive for wildlife, the interior portions of the habitat unit are not. This is particularly true for the cornfields. Given this fact, siting of the project within areas in corn crop would be the least impactful to wildlife. However, the hayfield portions of the project area, while unlikely to support a broad array of wildlife, have the potential to support several rare grassland birds, though successful nesting is unlikely due to the intensive cutting schedule currently in place. Based on discussions with the property owner, the hayfields fields are cut three times per growing season, twice in the summer and once in the fall.

Proposed work within the limits of mapped NDDB polygons is limited to the hayfield. No tree clearing is proposed within NDDB habitat. Based on NDDB's February 2, 2016 correspondence, there may be time of year restrictions between May and August associated with listed bat species. The Frosted elfin butterfly is associated with two plant species: wild blue lupine (*Lupinus perennis*) and wild indigo (*Baptisia tinctoria*). A survey will be completed by a biologist to determine if these favored plants will be impacted by the project. A report summarizing the survey results will include habitat descriptions, host plant locations, and mitigation measures to protect this species and their associated habitat.

To address the federally-listed NLEB, NDDB was contacted via email to confirm if NLEB habitat data is available. If information is not available, the applicant will document attempt to find the information and move forward with the project. Generally, however, the applicant will avoid tree removal activities between June 1 and July 31.

### 3.8 Vernal Pool Impact Assessment

Two potential vernal pools (PVPs) were identified on the site. These PVPs are cryptic vernal pools embedded within Wetland 3 which straddles the easterly boundary of the southern parcel. In order to assess these pools qualitatively, the methodology described in *Best Development Practices, Conserving Pool-Breeding Amphibians in Residential and Commercial Developments in the Northeastern United States* (Calhoun and Klemens, 2002, a.k.a. the BDP) was used. This assessment methodology utilizes a three-tiered rating system, with the tier designation determined by examining the biological value of the pool in conjunction with the condition of the habitat surrounding the pool, which is the area used by vernal pool amphibians during the non-breeding season. The higher the species diversity and abundance, coupled with an undeveloped and forested landscape surrounding the pool, the higher the tier rating. Tier 1 pools are considered the highest quality pools, while Tier 3 are the lowest.

This assessment is focused on the landscape analysis portion of the BDP methodology (Calhoun and Klemens, 2002:p.9, part B) in order to determine whether or not the project will affect the vernal pool conservation zones, which are defined as the *Vernal Pool Envelope* (VPE, 0 to 100 feet) and the *Critical Terrestrial Habitat* (100 to 750 feet). The conservation zones surrounding both vernal pools are entirely undeveloped. Therefore, CTH pools meet the landscape criteria for Tier 1 pools as they had less than 25% development in the VPE and less than 50% development within the CTH. None of the project area falls within either the VPE or CTH conservation zones. The nearest project activity to PVP 1 is over 1,000 feet, and the nearest project activity to PVP 2 is over 1,400 feet. Therefore, this project is compliant with the BDP and will not negatively affect vernal pool wildlife should they be present in the two potential vernal pools identified. However, a vernal pool survey will be completed in early Spring 2016 to confirm vernal pool wildlife that may be present at the Site.



### 3.9 Breeding Bird Impact Assessment

Land development can impact breeding birds via direct habitat loss as well as degradation of habitats adjacent to development, resulting from what is commonly referred to as the “edge effect”. The edge effect refers to habitats which are degraded as a result of their adjacency to development. This results from several factors, including habitat avoidance due to noise or visual disturbances, increased rates of predation or brood parasitism caused by improved habitat conditions for predators (e.g., raccoons), and nest parasites (i.e., brown-headed cowbirds). The specific factors which cause the edge effect, as well as its severity, depend upon the habitat being impacted as well as the type of land development being proposed. Generally speaking, the edge effect extends up to 300 feet outward from a developed area. Within this zone, breeding productivity can be diminished and disturbances associated with the adjacent development can result in outright avoidance by nesting birds.

Habitat loss is an unavoidable consequence of land development. A summary of the habitat types that will be directly affected as a result of the project along with the number of greatest conservation need (GCN) species associated with that habitat type are shown in Table 3-1. Based on the breeding bird inventory, a total of 26 GCN species may potentially breed at the site. Of these 26 species, 10 are associated with habitats that will be directly affected by the project; six species are associated with mixed hardwood forest and four are associated with hayfield. The majority of the project (44.3%) is sited within hayfield and cornfield habitats which will result in habitat loss for four GCN species, as no GCN species were associated with the cornfields. The habitat types expected to support the highest species richness (both GCN and non-GCN species), mixed hardwood forest and old field, will be minimally affected as only 16 acres of hardwood forest are proposed for development and no old field areas will be directly affected.

The greatest effect on habitat capable of supporting GCN birds will result from the loss of hayfield habitat. However, due to the haying regime currently employed, which consists of three cuttings – two in the summer and one in the fall, the likelihood of successful grassland bird nesting is low.

In order to minimize direct impacts to GCN species, a series of mitigation measures are proposed as outlined in the following sections.

Table 3-1: GCN Species Affected by Habitat Loss (By Habitat Type)

Habitat Type	Total GCN Species	Direct Habitat Loss (total acres)
<i>Habitat Specialists</i>		
Hayfield	4	43 acres
Mixed hardwood forest	6	17 acres
Old field	6	0 acres
Forested wetlands	3	0 acres
Total	19	
<i>Habitat Generalists or Edge Species</i>		
Mixed hardwood forest and old field	3	
Hayfield and old field	3	
Mixed hardwood forest, old field, hayfield	1	
Total	7	

### 3.10 Wildlife Impact Mitigation Measures

#### 3.10.1 General Breeding Bird Protection Measures

The proposed construction activities will result in tree clearing and conversion of agricultural land that has the potential to support breeding birds. To avoid potential disturbance during periods of high bird activity, RES will use the following schedule as a general guideline. If construction activities should occur during the peak nesting period of May 1<sup>st</sup> through August 15<sup>th</sup>, it is recommended that all vegetation removal work (forest removal and hayfield conversion) occur prior to May 1<sup>st</sup>; or, if vegetation removal has not been completed by May 1<sup>st</sup>, an avian survey may be conducted to determine if breeding birds would be disturbed. If the avian survey concludes that breeding birds would be disturbed, vegetation removal activities may be restricted through the peak nesting period (or a modified time frame based on the specific findings of the survey).

#### 3.10.2 Grassland Bird Protection Measures

Measures will be taken to avoid incidental take of state-listed grassland birds during construction (if present). Ideally, the hayfield vegetation should be removed during the non-breeding season (September to April) in order to prevent attraction of grassland birds during spring migration. If this is not feasible, hay mowing activities should be delayed until mid-July or early August to allow grassland birds to complete most nesting activities. If delayed mowing is not feasible and construction activities must be conducted during the breeding season, the following measures will be taken to minimize impacts on nesting grassland birds (NRCS, 1999):

1. Hayfields should be mowed from the field center outward to allow birds to escape to adjacent habitats.
2. Fields can be broken into sub-units and mowed on a rotational basis to allow for some useable habitat to be available at all times.

3. Adult nesting birds and roosting individuals are less likely to flush from cover during the night. Therefore, night mowing should be avoided to prevent adult bird mortality.
4. Flushing bars should be mounted on harvesting equipment to minimize bird mortality during mowing operations.

### 3.10.3 Bat Protection Measures

To address the federally-listed NLEB, NDDB was contacted via email to confirm if NLEB habitat data is available. The applicant will document attempt to find the information and move forward with the project. Generally, however, the applicant will avoid tree removal activities between June 1 and July 31.

## 3.11 Water Supply Areas

There are no public water supply wells located in the vicinity of the Site. No liquid fuels are associated with the operations of the Project. Therefore, the Project will have no adverse environmental effect on water supply resources.

## 3.12 Water Quality

The facility will be unstaffed and no potable water uses or sanitary discharges are planned. Because the solar arrays will be installed on driven foundations, impervious areas are substantially minimized. Refer to the Stormwater Management Report in Exhibit N.

It is anticipated that a stormwater management system design will be completed as part of the D&M Plan, should it be required by the Siting Council, in conformance with the guidelines set forth in the 2004 Connecticut Stormwater Quality Manual.

Current stormwater flowpaths will not be impacted. The current hay fields will remain vegetated and any damage to existing vegetation will be reseeded during construction. Current corn/ row crops will be seeded with a grass/ hay mix for stabilization. In general, row crop land is highly erosive. A conversion to grassland/ hay associated with the solar project will reduce runoff, sedimentation and soil loss to wind. The drip edge from the panels is not erosive for established vegetation.

## 3.13 Air Quality

During operation, the Project will not produce air emissions of regulated air pollutants or greenhouse gases (e.g., PM10, PM2.5, VOCs, GHG or Ozone). Thus, no air permit will be required. During construction of the Project, any air emission effects will be temporary and will be controlled by enacting appropriate mitigation measures (e.g., water for dust control, avoid mass early morning vehicle startups, etc.). Accordingly, any potential air effects as a result of the Project construction activities will be *de minimus*.

Moreover, per the Greenhouse Gas Equivalencies EPA calculator (EPA.gov), a 20 MW solar project is equivalent to a reduction in 25.8 metric tons of CO<sup>2</sup>, which is equal to taking 4.9 vehicles off the road for one year and the amount of carbon sequestered by 19 acres of U.S. forests in one year. Refer to Exhibit Q.



### 3.14 Scenic Areas

No scenic areas would be physically or visually impacted by development of the solar Project. Vegetative screening is proposed to minimize visual impacts from abutting residences. Refer to Figure 5 Proposed Conditions for proposed vegetation screening locations.

A preliminary view shed analysis was completed during site visits and by using aerial and topographic mapping in November 2015. The site visits and mapping identified a substantial amount of natural screening in the area, primarily in the form of heavily forested land to the east and southeast, southwest, north and northwest of the project area. In most instances, there is existing forest cover between the project site and potential observation points. Furthermore, no public hiking paths or other potential public non-vehicular trails were found to be present in the area that would serve as potential observation points. A photo simulation of the project area has been prepared and is provided as Exhibit J of the Connecticut Siting Council Petition.

### 3.15 Historic and Archaeological Resources

A Phase 1A Cultural Resources Assessment will be conducted at the site in compliance with the CT SHPO Environmental Review Primer for Connecticut's Archaeological Resources. Subsurface testing will assess areas of anticipated ground disturbance that are considered to have a moderate/ high sensitivity for containing significant archeological deposits, unless sufficient research or fieldwork documents that this level of effort is unwarranted. No construction or other project-related ground disturbance will be initiated until SHPO has had an opportunity to review and comment on the requested survey. The survey will also take into consideration potential view shed impacts on structures older than fifty years that are listed on or may be eligible for listing on the National Register of Historic Places.

The objectives of the study will be: 1) to determine whether or not the proposed project parcel, or portions thereof, possess no, low, and/or moderate to high potential to produce intact cultural deposits and/or surficial expressions of cultural resources, 2) to submit the findings and recommendations of the study to the CT SHPO for comment and review, and 3) to determine if subsequent Phase 1B Cultural Resources Reconnaissance Survey of the entire project area or portions of the project parcel is warranted.

If required, a Phase 1B intensive/ locational survey will be conducted at the site. The Phase 1B completion report will be submitted to the SHPO for review.

While it is not feasible from a design, access, maintenance and safety perspective to maintain stone walls and piles within the project limits, stone walls and piles outside of the project limits, including those demarcating property boundaries, will be maintained to the fullest extent practicable.

### 3.16 Geology and Soils

Vegetative clearing and earthwork is required for construction of the Project. Existing grades will be utilized to minimize the required amount of earth work. Some soil disturbance will be required to install foundations for the PV panels and associated equipment. Limited grading may be required for installation of the main access road and perimeter road. No significant cut or fill operations are planned. Panel foundations will be secured using driven pile technology.

The solar project will not change the chemical characteristics of the soil. No loam is proposed to be removed as part of this project. No chemical additives (fertilizers, herbicides, etc.) are proposed. Vegetation will not be harvested or removed and there is no anticipated depletion of soil nutrients. Following construction, no heavy traffic is proposed at the site. Construction equipment associated with solar development will not result in compaction. All equipment will be removed at the end of the project life. Finally, the site can be plowed/ planted following removal of the solar array.

The project is beneficial for farmland preservation. The project is a reliable revenue source for both the owner and community due to clear lease terms, no dependence on the agricultural market, provides a reliable tax revenue for the community, and does not place a burden on public services. The development is also reversible at the end of the lease term. RES is responsible for full decommissioning of the solar facility.

### **3.17 Floodplain Areas**

The Site is located entirely outside of the 100-year and 500-year floodplains. Therefore, no special design elements are necessary with respect to flooding concerns. In addition, no impacts to floodplains are associated with the proposed Project.

### **3.18 Recreational Areas**

No recreational areas will be impacted by the Project.

### **3.19 Noise**

The Project will not produce significant noise during operation. The only equipment proposed for the Project that would generate noise consists of the inverters, which are inactive at night. The closest inverter to a property line is approximately 100 feet. After the project is constructed and in service, the noise levels at the nearest offsite residence are anticipated to be a maximum of 44 dBA during operations which is during the daylight hours and significantly lower during non-daylight hours. This is well below the most conservative criteria of 45 dBA for nighttime and 55 dBA for daytime, as established by the State of Connecticut Noise Control regulations (DBS 22a/22a-69-1 through 7). Refer to [Exhibit O](#).

### **3.20 Lighting**

No lighting is planned for the facility.

### **3.21 Coastal Zone Management Features**

No Coastal Zone Management Areas would be affected by the Project.

### **3.22 Other Surrounding Features**

No adverse effects are anticipated to the facilities identified in Figure 4, primarily because of their sufficient distance from the Project.

## **Section 4**

### **Conclusion**

As demonstrated in this EA, due to design consideration to minimize environmental impacts, and proposed construction period mitigation measures, the Project will comply with CTDEEP air and water quality standards and will not have a substantial adverse effect on the environment.



## Section 5

### References

Mitsch, W.J and Gosselink, J.G. 2007. Wetlands, fourth edition. John Wiley and Sons, Inc.

Bevier, L. R. (Ed.). *Atlas of Breeding Birds of Connecticut*. 1994. Bulletin 113. State Geological and Natural History Survey of Connecticut. 461 p.

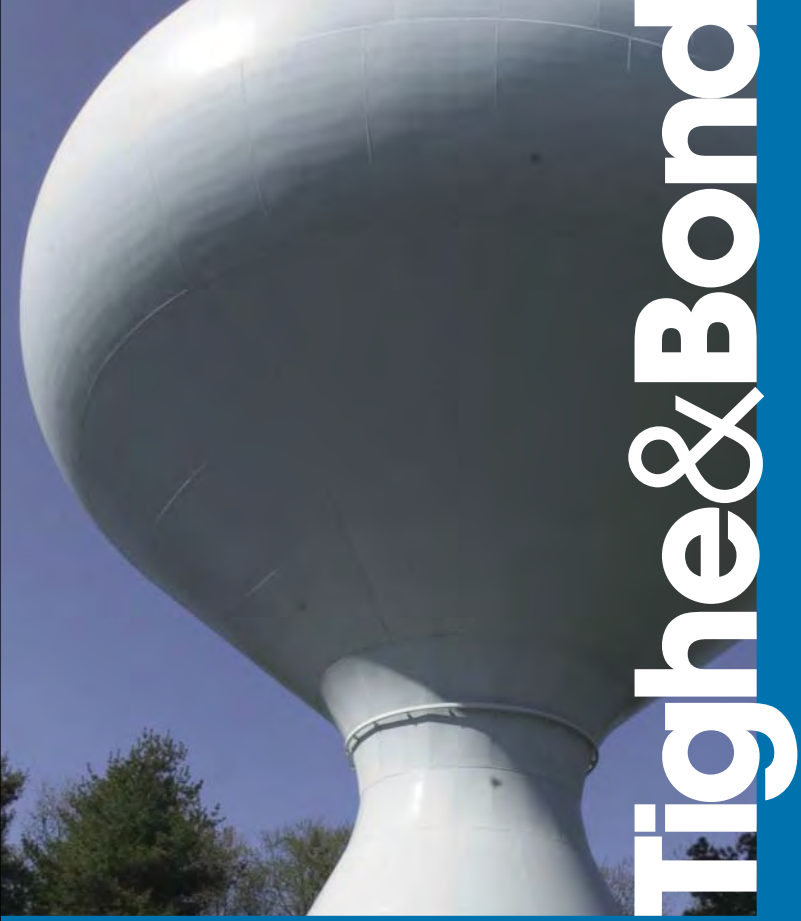
Comins, P., Hanisek, G. and Oresman, S. 2003. Protecting Connecticut's Grassland Heritage, a report of the Connecticut grasslands working group. Audubon Connecticut, April 2003.

DeGraaf, R.M., and Yamasaki, M. 2001. New England Wildlife, habitat, natural history and distribution. University Press of New England.

Calhoun, A.J.K and M.W. Klemens. 2002. Best development practices: Conserving pool-breeding amphibians in residential and commercial developments in the northeastern United States. MCA Technical Paper No. 5, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, New York.

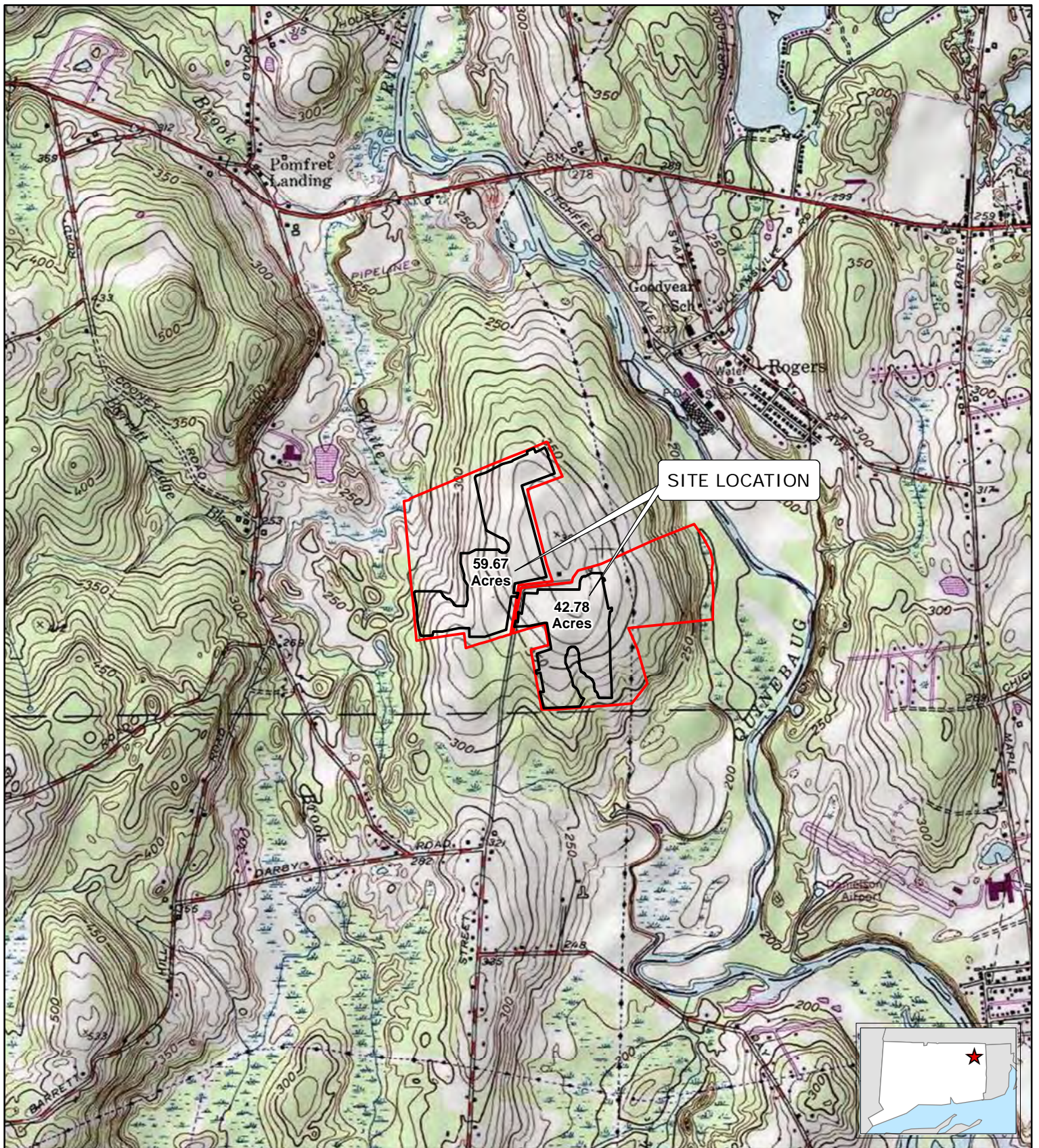
Smallwood, John A. and David M. Bird. 2002. American Kestrel (*Falco sparverius*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online: <http://bna.birds.cornell.edu/bna/species/602>

NRCS, 1999. Grassland Birds. Fish and wildlife habitat management leaflet number 8. United States Department of Agriculture.





# Tighe & Bond



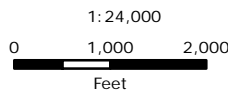


**Legend**

-  Project Area Boundary
-  Site Parcels



Based on USGS Topographic Map for  
 Danilson, Revised 1970.  
 Contour Interval Equals 10-feet.

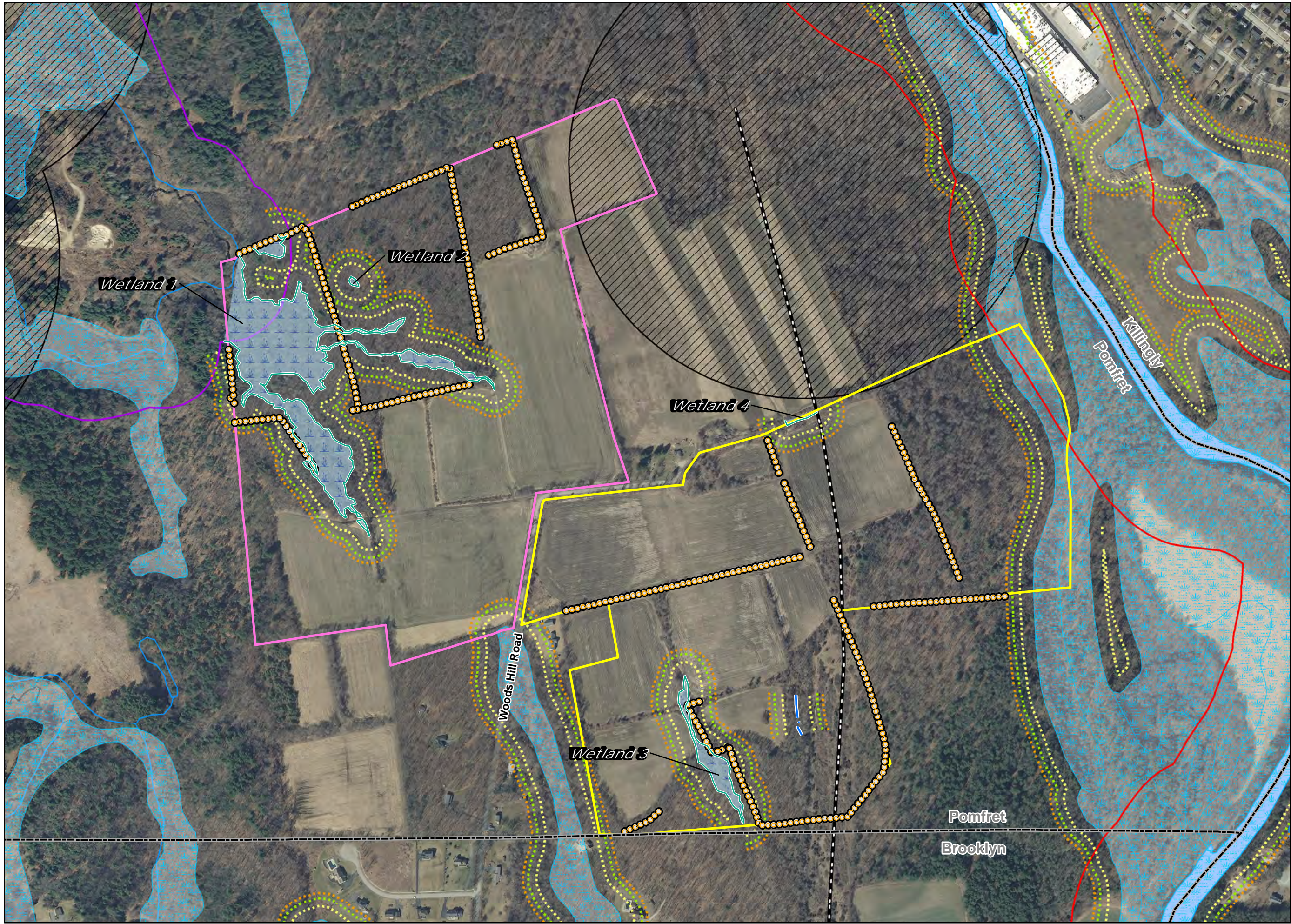


**FIGURE 1**  
 Project Location Map  
 Woods Hill Solar Project  
 Pomfret, Connecticut

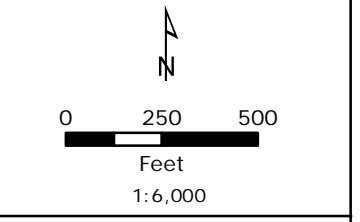
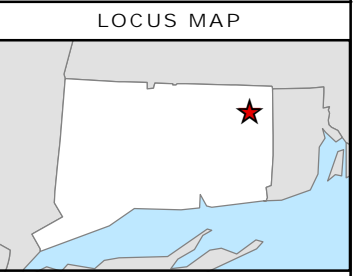
March 2016



FIGURE 2  
Existing Conditions  
Map



- LEGEND
- Site Parcel A (115 Acres)
  - Site Parcel B (113 Acres)
  - Delineated Wetland Boundary
  - Wetland Area
  - CT DEEP Inland Wetland Soils
  - Intermittent Watercourse
  - 150' Upland Review Area
  - 120' Minimum Distance (IWWA)
  - 75' Wetland Buffer Zone
  - 300' Upland Review Area
  - 500' Upland Review Area
  - Watercourse
  - Waterbody
  - Natural Diversity Database Area
  - Stone Wall
  - 345 Kv Transmission Line
  - Town Boundary



- NOTES
1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
  2. 2012 imagery provided by CT DEEP.

Woods Hill  
Solar Project  
Pomfret, Connecticut

March 2016





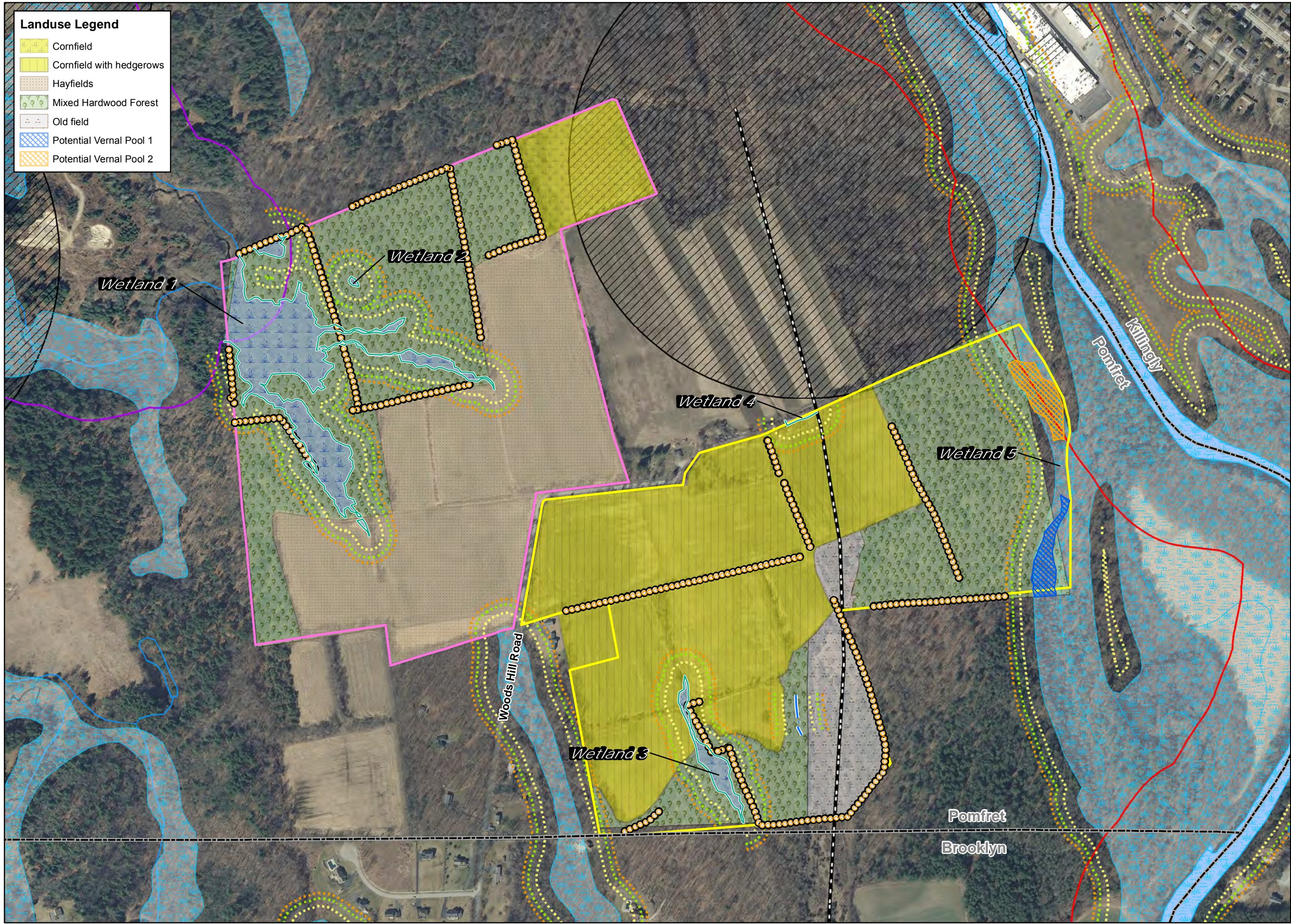
**Landuse Legend**

- Cornfield
- Cornfield with hedgerows
- Hayfields
- Mixed Hardwood Forest
- Old field
- Potential Vernal Pool 1
- Potential Vernal Pool 2

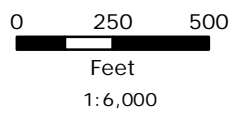
**FIGURE 3**  
Habitat Cover  
Map

**LEGEND**

- Site Parcel A (115 Acres)
- Site Parcel B (113 Acres)
- Delineated Wetland Boundary
- Wetland Area
- CT DEEP Inland Wetland Soils
- Intermittent Watercourse
- 150' Upland Review Area
- 120' Minimum Distance (IWWA)
- 75' Wetland Buffer Zone
- 300' Upland Review Area
- 500' Upland Review Area
- Watercourse
- Waterbody
- Natural Diversity Database Area
- Stone Wall
- 345 Kv Transmission Line
- Town Boundary



**LOCUS MAP**



**NOTES**

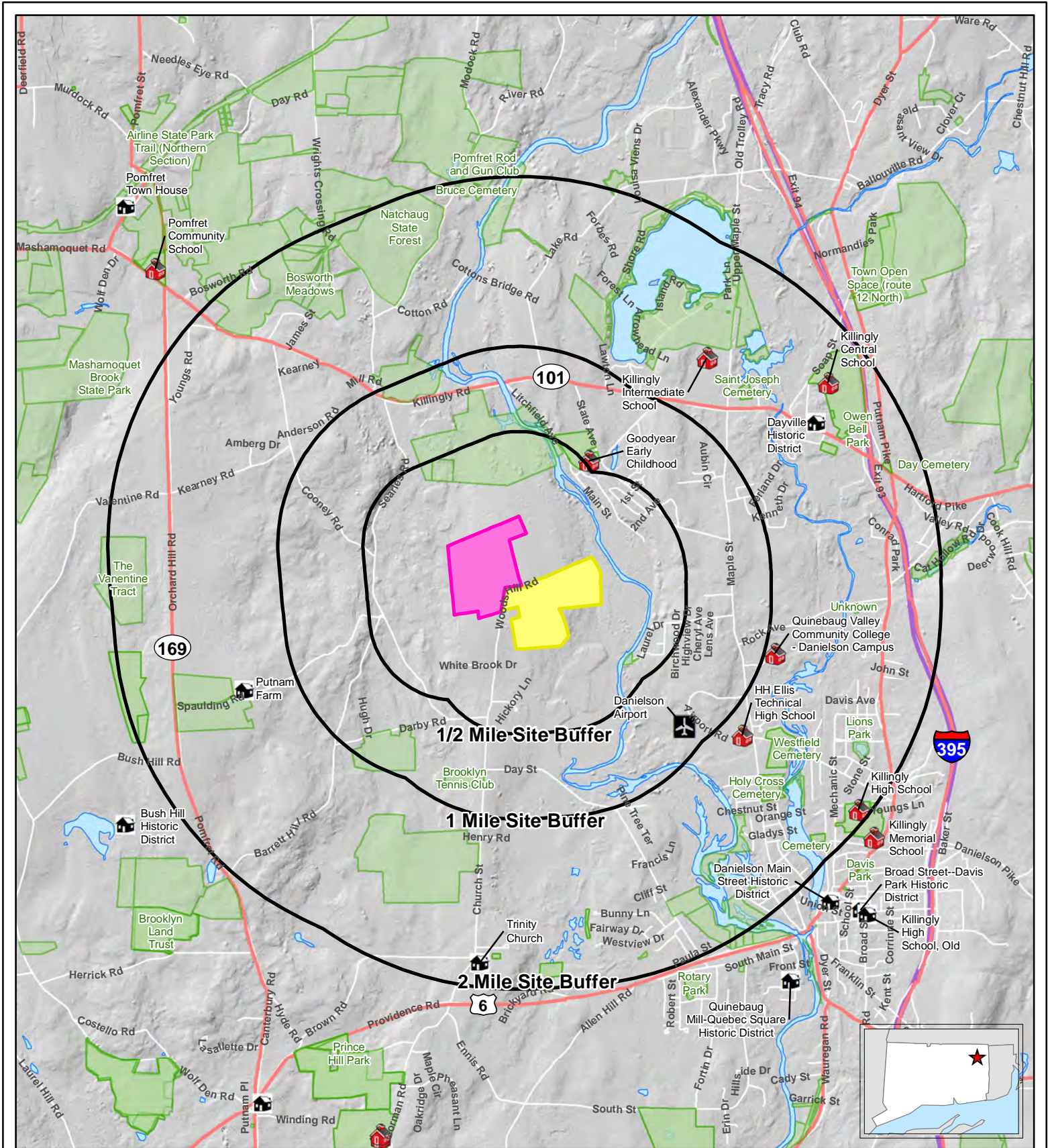
1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
2. 2012 imagery provided by CT DEEP.

Woods Hill  
Solar Project  
Pomfret, Connecticut

March 2016





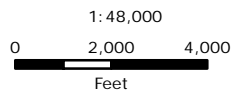


**Legend**

- Site Parcel A (115 Acres)
- Site Parcel B (113 Acres)
- Protected Open Space
- Waterbody
- National Register of Historic Places
- Airport
- School



Based on 2012 Statewide Leaf-Off Orthophotography, and 2000 LIDAR Hillshade, Historic data from NHP & NPS, Open Space Data from CTDEEP.

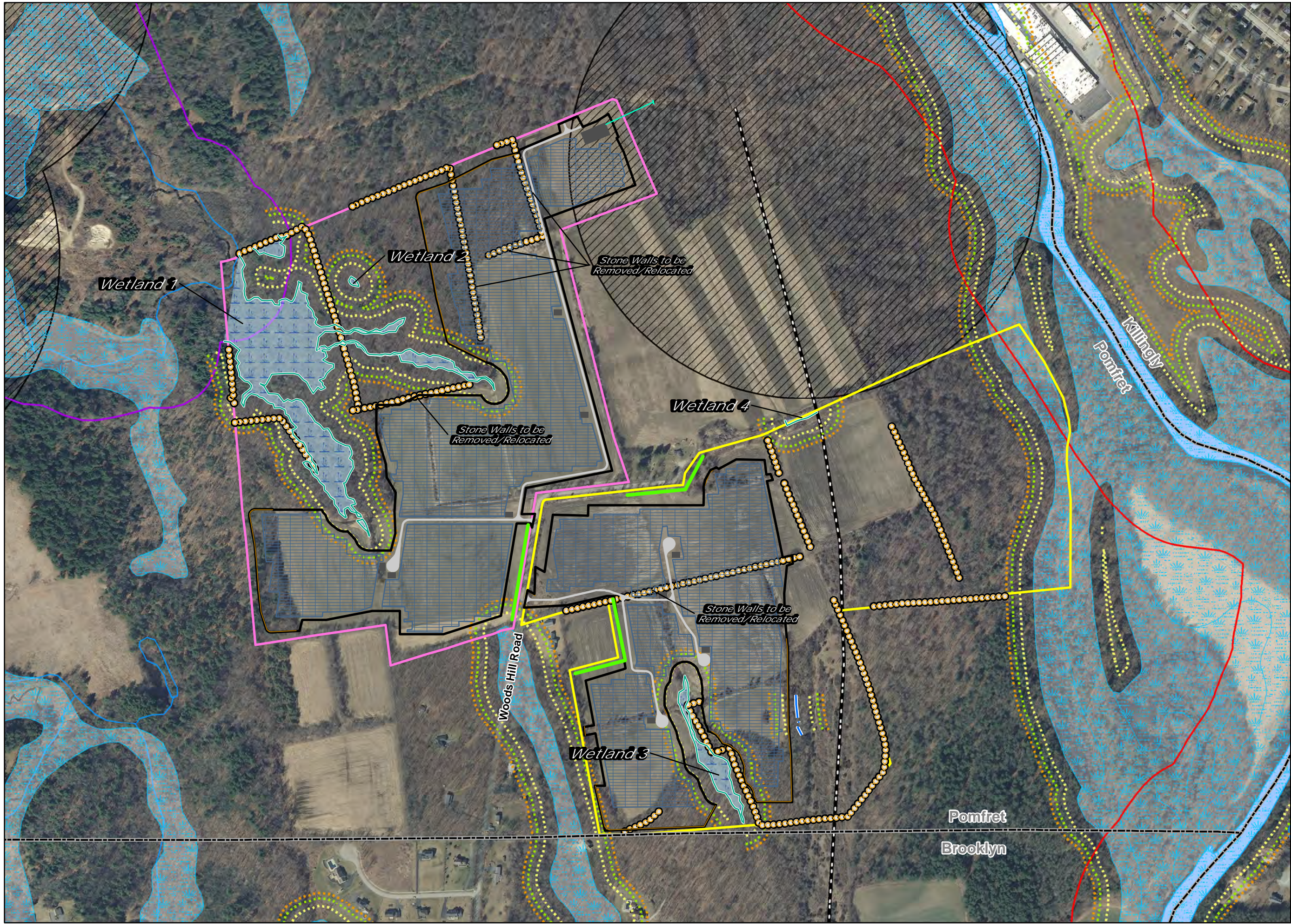


**FIGURE 4**  
 Surrounding Features Map  
 Woods Hill Solar Project  
 Pomfret, Connecticut

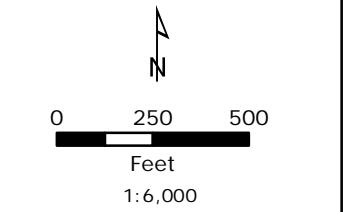
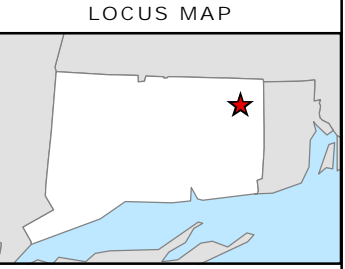
March 2016



FIGURE 5  
Proposed Conditions  
Map



- LEGEND**
- Site Parcel A (115 Acres)
  - Site Parcel B (113 Acres)
  - Project Area (~102 Acres)
  - Proposed Limits of Tree Clearing
  - Proposed Interconnection
  - Proposed Solar Panels
  - Access Road
  - Equipment Pad
  - Vegetation Screening
  - Delineated Wetland Boundary
  - Wetland Area
  - CT DEEP Inland Wetland Soils
  - Intermittent Watercourse
  - 150' Upland Review Area
  - 120' Minimum Distance (IWWA)
  - 75' Wetland Buffer Zone
  - 300' Upland Review Area
  - 500' Upland Review Area
  - Watercourse
  - Waterbody
  - Natural Diversity Database Area
  - Stone Wall
  - 345 Kv Transmission Line
  - Town Boundary



- NOTES**
1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
  2. 2012 imagery provided by CT DEEP.

Woods Hill  
Solar Project  
Pomfret, Connecticut  
  
March 2016







# Tighe & Bond



# SOIL REPORT

**Project:** Woods Hill Solar Project  
Pomfret, Connecticut

**Project No.:** R-0298  
**Site Inspection Dates:** 9/1/2015,  
9/8/2015, 9/10/2015, 9/23/2015, &  
9/25/2015, 12/5/2015, 12/23/2015

**PROJECT DESCRIPTION:** *Inland wetland & watercourse identification and delineation*

## METHOD FOR IDENTIFICATION OF MAP UNITS

### Wetlands

- Field marking (flagging) for GPS survey*
- Field plotting on \_\_\_\_\_*
- Field plotting on aerial photography*

### Non Wetland Soils

- High intensity field identification by Soil Scientist*
- Medium intensity identification from USDA, Soil Conservation Service Soil Maps*

## METHOD OF SOIL IDENTIFICATION

- Spade and Auger*
- Deep test pits (backhoe)*
- Other \_\_\_\_\_*

## SOIL MOISTURE CONDITION

- Dry  Moist  Wet   
 Frost Depth   0   in.  
 Snow Depth   0   in.

*The classification system of the National Cooperative Soil Survey, USDA, Soil Conservation Service and the County Identification Legend were used in this investigation. The investigation was conducted by the undersigned wetland scientist and wetland boundaries located within 100 feet of the proposed development, as depicted on Proposed Conditions mapping dated October 2015, were reviewed by the undersigned Professional Soil Scientist.*

Respectively submitted by,

### TIGHE & BOND, INC.

Katy Wilkins, Environmental Scientist

Matthew Davison, PSS, PWS, CPESC, CT Forester



# SOIL REPORT *continued*

**PROJECT:** Woods Hill Solar Project, Pomfret, Connecticut

## MAPS/PLANS GENERATED

- Site plan with wetland flags located by GPS with sub meter accuracy
- Sketch location of wetlands
- None

## WETLAND NUMBERING SEQUENCES AND DESCRIPTION

**Wetland 1** (1A-1 to 1A-17; 1B-1 to 1B-223; 1C-1 to 1C-33; 1D-1 to 1D-101<sup>1</sup>): The delineated wetland area is characterized as a large forested, hillside seepage (groundwater discharge) wetland (PFO1) located on the west side of a drumlinoid landform that is comprised of thick till. This wetland receives surface water runoff from the upgradient forest and farm fields and drains towards a large emergent wetland and White Brook located off-site to the west. Indicators of both diffuse and channelized (intermittent watercourses) surface water movement were observed throughout the delineated wetland area; however, no surface water was present at the time of the delineation. In many cases, the delineated wetland area is characterized by inclusions of moderately well drained soils, due in part to oxyaquic soil conditions as a result of the topographical gradient present within the wetland. The dominant vegetation included red maple (*Acer rubrum*), shagbark hickory (*Carya ovata*), barberry (*Berberis thunbergii*), multiflora rose (*Rosa multiflora*), winged euonymous (*Euonymus alatus*), cinnamon fern (*Osmunda cinnamomea*) and christmas fern (*Polystichum acrostichoides*). The herbaceous layer was limited due to the shading from the dense shrub layer of barberry. This area also included two separate drainage channels. The drainage channels consisted of vegetated wetlands surrounding intermittent streams that direct flow from the forested upland and farm fields to the larger wetland extent. There were no resource areas upgradient of these streams but the banks were well defined and there was evidence of sediment drift and wrack build up.

**Wetland 2:** The delineated wetland is a small isolated forested wetland with a seasonally saturated hydrology. This wetland has identical physical, hydrologic and vegetative characteristics to Wetland 1. The wetland has a small watershed and the volume of discharge is small. As a result, the surface flows are quickly captured and infiltrated back into the ground as opposed to flowing downslope into Wetland 1.

**Wetland 3** (3A-1 to 3A-53<sup>1</sup>): The delineated wetland is characterized as a narrow hillside seepage (groundwater discharge) wetland and intermittent watercourse that collects runoff from the upgradient, till dominated agricultural fields. This wetland forms within a hedgerow between adjacent agricultural fields and discharges downslope to a forested area along the southern site boundary. Soils are characterized by a deep A horizon, primarily as a result of deposition of colluvium originating from the upgradient fields.

**Wetland 4** (4A-1 to 4A-5<sup>1</sup>): The delineated wetland is a small area located in an abandoned access road between farm fields in the north eastern parcel boundary. Topography trended to the west along the cleared access road and tire ruts. Dominant vegetation included dogwood (*Cornus sp.*), soft rush (*Juncus effusus*), rough stem goldenrod (*Solidago rugosa*), and jewelweed (*Impatiens capensis*).

---

<sup>1</sup> Wetland flag series presented in this report may not match what is present in the field due to post-fieldwork mapping and labeling.

## **SUMMARY SOIL DESCRIPTIONS**

Digitally available updated soil survey information was obtained from the Natural Resources Conservation Service as depicted on the attached soil map. The following soil types were identified during the delineation:

### **Wetland Soils**

#### **Ridgebury, Leicester and Whitman soils (Map Unit 3)**

The Ridgebury series consists of very deep, somewhat poorly and poorly drained soils formed in lodgment till derived mainly from granite, gneiss and/or schist. They are commonly shallow to a densic contact. They are nearly level to gently sloping soils in depressions in uplands. They also occur in drainageways in uplands, in toeslope positions of hills, drumlins, and ground moraines, and in till plains. This series includes phases that are poorly drained and the wetter part of somewhat poorly drained. A perched, fluctuating water table above the dense till saturates the solum to or near the surface for 7 to 9 months of the year. Slope ranges from 0 to 15 percent.

The Leicester series consists of very deep, poorly drained loamy soils formed in friable till. They are nearly level or gently sloping soils in drainageways and low-lying positions on hills. Depth to bedrock is commonly more than 6 feet. Rock fragments range from 5 to 35 percent by volume to a depth of 40 inches and up to 50 percent below 40 inches. Leicester soils have a water table at or near the surface much of the year. Slope ranges from 0 to 8 percent.

The Whitman series consists of very deep, very poorly drained soils formed in lodgment till derived mainly from granite, gneiss, and schist. They are shallow to a densic contact. They are nearly level or gently sloping soils in depressions and drainageways on uplands. Depth to dense till is 12 to 30 inches. Some pedons have organic horizons overlying the A horizon. They are fibric hemic or sapric material, and are up to 5 inches thick. Whitman soils are found on nearly level and gently sloping soils in depressions and in drainage ways of glacial uplands. Slopes are typically 0 to 2 percent but range up to 8 percent where wetness is due to seepage water. This soil is very poorly drained. A perched water table, or excess seepage water, is at or near the surface for about 9 months of the year.

#### **Rippowam (Map Unit 103)**

The Rippowam series consists of very deep, poorly drained loamy soils formed in alluvial sediments. They are nearly level soils on flood plains subject to frequent flooding.

### **Nonwetland Soils**

#### **Woodbridge (Map Unit 45A/B & 47C)**

The Woodbridge series consists of moderately well drained loamy soils formed in compact, subglacial till. They are very deep to bedrock. They are nearly level to moderately steep soils on till plains, hills, and drumlins. Depth to the compact layer (hardpan) is 18 to 40 inches. Depth to bedrock is commonly more than 6 feet. Woodbridge soils have a seasonal high water table on top of the compact layer (18-40") from fall through late spring. Slope ranges from 0 to 25 percent.

#### **Canton and Charlton soils (Map Unit 62C)**

The Canton series consists of very deep, well drained soils formed in a loamy mantle underlain by sandy glacial till. They are on nearly level to very steep glaciated plains, hills, and ridges. Slope ranges from 0 to 35 percent. Permeability is moderately rapid in the solum and rapid in the substratum. The soils developed in a fine sandy loam mantle over acid sandy glacial till of Wisconsin age derived mainly from granite and gneiss and some fine-grained sandstone.

#### **Charlton-Chatfield Complex (Map Unit 73C)**



The Charlton series consists of very deep, well drained loamy soils formed in friable till derived from parent materials that are very low in iron sulfides. They are nearly level to very steep soils on till plains and hills. Depth to bedrock and the seasonal high water table is commonly more than 6 feet. Slope ranges from 0 to 50 percent.

The Chatfield series consists of moderately deep, well drained, and somewhat excessively drained soils formed in till derived from parent materials that are very low in iron sulfides. They are nearly level to very steep soils on glaciated plains, hills, and ridges. Slope ranges from 0 to 70 percent. Crystalline bedrock is at depths of 20 to 40 inches. The soils formed in a moderately thick mantle of glacial till overlying granite, gneiss, or schist bedrock. Rock outcrops are rare to common and are limited to the more resistant bedrock.

**Hinkley (Map Unit 38C)**

The Hinkley series consists of very deep, excessively drained soils formed in glaciofluvial materials. They are nearly level through very steep soils on outwash terraces, outwash plains, outwash deltas, kames, kame terraces, and eskers. Saturated hydraulic conductivity is high or very high. Slope ranges from 0 to 60 percent.



Soil Map—State of Connecticut



Map Scale: 1:6,940 if printed on B landscape (17" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84



Natural Resources  
Conservation Service


Web Soil Survey  
National Cooperative Soil Survey

3/23/2015  
Page 1 of 4



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut  
 Survey Area Data: Version 13, Oct 28, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 28, 2011—May 12, 2011

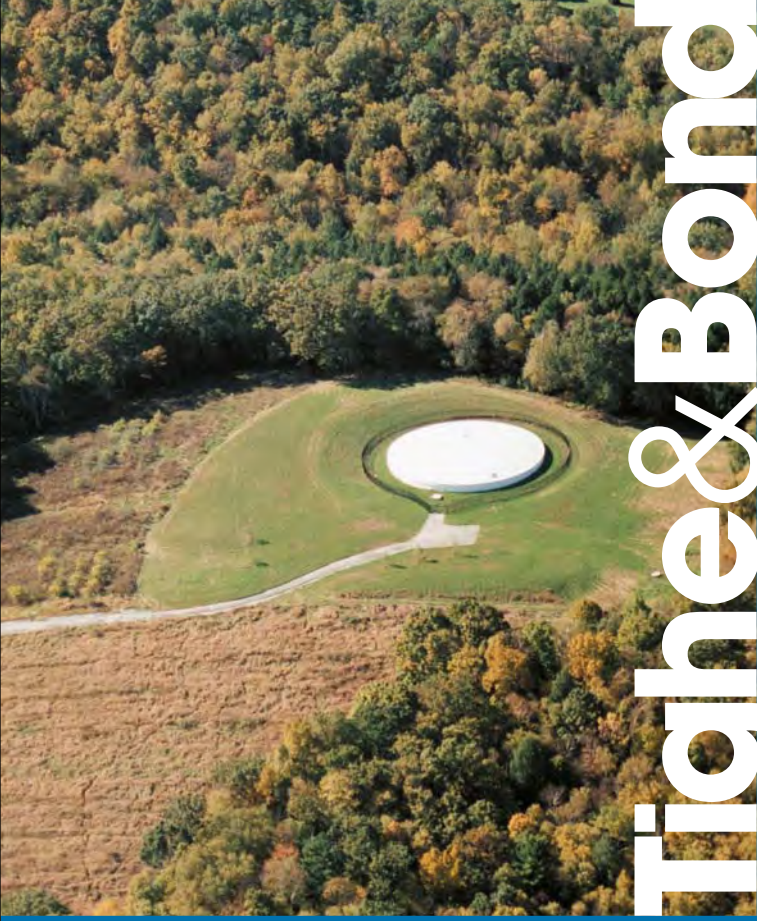
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

State of Connecticut (CT600)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2	Ridgebury fine sandy loam	3.9	0.8%
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	18.2	3.6%
18	Catden and Freetown soils	7.1	1.4%
23A	Sudbury sandy loam, 0 to 5 percent slopes	6.8	1.4%
29A	Agawam fine sandy loam, 0 to 3 percent slopes	4.2	0.8%
36A	Windsor loamy sand, 0 to 3 percent slopes	3.9	0.8%
38C	Hinckley gravelly sandy loam, 3 to 15 percent slopes	54.3	10.9%
38E	Hinckley gravelly sandy loam, 15 to 45 percent slopes	3.2	0.6%
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes	50.3	10.1%
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	114.1	22.9%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	23.8	4.8%
47C	Woodbridge fine sandy loam, 2 to 15 percent slopes, extremely stony	61.3	12.3%
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	0.4	0.1%
60C	Canton and Charlton soils, 8 to 15 percent slopes	3.9	0.8%
62C	Canton and Charlton soils, 3 to 15 percent slopes, extremely stony	18.8	3.8%
62D	Canton and Charlton soils, 15 to 35 percent slopes, extremely stony	9.0	1.8%
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky	41.2	8.3%
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	8.2	1.6%
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	4.6	0.9%

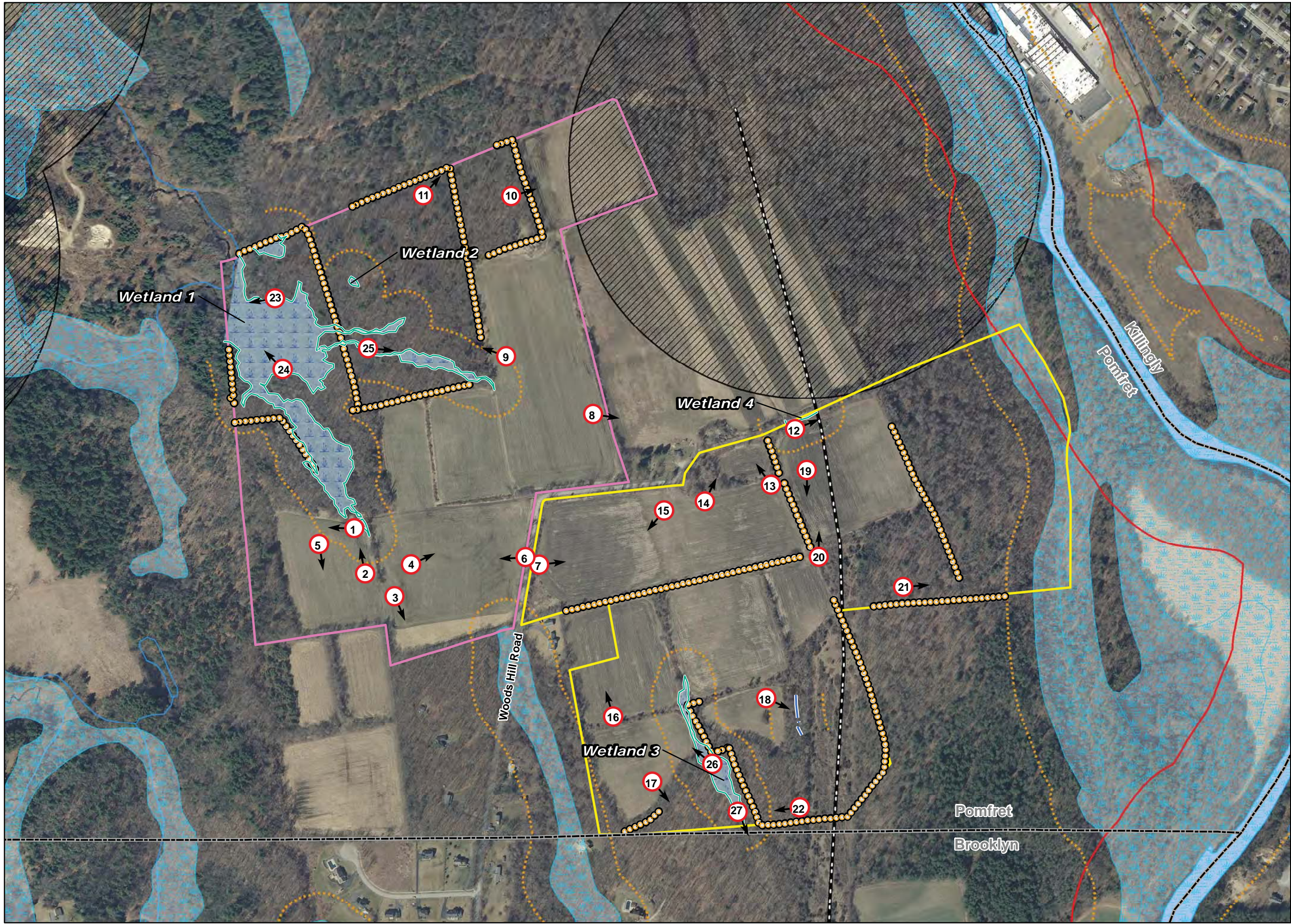


State of Connecticut (CT600)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	13.1	2.6%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	10.8	2.2%
101	Occum fine sandy loam	5.4	1.1%
102	Pootatuck fine sandy loam	10.7	2.1%
103	Rippowam fine sandy loam	19.4	3.9%
306	Udorthents-Urban land complex	0.5	0.1%
W	Water	2.1	0.4%
<b>Totals for Area of Interest</b>		<b>499.1</b>	<b>100.0%</b>



# Tighe & Bond



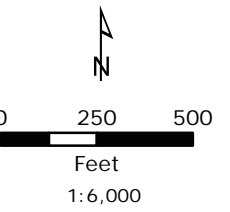


**Photograph Location Key**

**LEGEND**

- Site Parcel A (115 Acres)
- Site Parcel B (113 Acres)
- Delineated Wetland Boundary
- Wetland Area
- CT DEEP Inland Wetland Soils
- Intermittent Watercourse
- 150' Upland Review Area
- 500' Upland Review Area
- Watercourse
- Waterbody
- Natural Diversity Database Area
- Stone Wall
- 345 Kv Transmission Line
- Town Boundary
- # Photo Point

**LOCUS MAP**



**NOTES**

1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
2. 2012 imagery provided by CT DEEP.

Woods Hill Solar Project

Pomfret, Connecticut

March 2016







**Photo 1:** Parcel B - View of the western farm field, facing west toward the proposed tree removal area and parcel boundary (9/8/2015).



**Photo 2:** Parcel B - View of the tree line within the southern field, facing north (9/8/2015).





**Photo 3:** View of the southwestern farm field in Parcel B, facing southeast (9/8/2015).



**Photo 4:** Parcel B - View of the southern farm field, facing east toward Woods Hill Road (9/8/2015).



**Photo 5:** Parcel B - View of the southern farm field, facing south toward the southern parcel boundary (11/27/2015).



**Photo 6:** Parcel B - View of the southern farm field from Woods Hill Road, facing west (11/27/2015).





**Photo 7:** Parcel A - View of the western farm field from Woods Hill Road, facing east (11/27/2015).



**Photo 8:** Parcel B - View of the vegetated eastern parcel boundary, facing east (11/27/2015).



**Photo 9:** Parcel B – Representative view of the proposed tree removal area outside of mapped NDDB polygon, facing west (11/27/2015).



**Photo 10:** Parcel B – Representative view of the proposed tree removal area within northern forested portion of parcel, facing east (9/10/2015).





**Photo 11:** Parcel B – Representative view of the proposed tree removal area near northern parcel boundary, facing northeast (9/10/2015).



**Photo 12:** Parcel A - View of the vegetated access road and wetland 4 along parcel boundary, facing east (9/25/15).





**Photo 13:** Parcel A - View of the northernmost agricultural field along the northern parcel boundary, facing north (11/27/15).



**Photo 14:** Parcel A - View of the access into the northernmost agricultural field along the northern parcel boundary, facing northeast (11/27/15).





**Photo 15:** Parcel A - View of the northern farm field, facing southwest toward Woods Hill Road and parcel boundary (9/23/2015).



**Photo 16:** Parcel A – Representative view of the western farm field, facing north (11/27/2015).





**Photo 17:** Parcel A – Representative view of the western farm field, facing south toward the southern parcel boundary (11/27/2015).



**Photo 18:** Parcel A - View of the southern farm field, facing southeast toward Wetland 5 and the transmission line (11/27/2015).





**Photo 19:** Parcel A - View of the transmission line and farm field located outside (and east of) the Project Boundary, facing south (9/25/2015).



**Photo 20:** Parcel A - View of the transmission line located outside (and east of) the Project Boundary, facing north (9/25/2015).





**Photo 21:** Parcel A – Representative view of the forested area outside (and east of) the Project Boundary and transmission line ROW in the eastern portion of the parcel. View facing east (9/25/2015).



**Photo 22:** Parcel A - View of the proposed tree removal area and eastern Project Boundary from the transmission line Right of Way, facing west (9/25/15).





**Photo 23:** Parcel B – Representative view of Wetland 1 located in the northwest corner of Parcel B, facing west (9/01/15).



**Photo 24:** Parcel B - View of a watercourse in interior of Wetland 1, facing northwest (9/08/15).





**Photo 25:** Parcel B - View of a stream channel flowing from the east, included in Wetland 1 delineation, facing east (9/10/15).



**Photo 26:** Parcel A – Representative view of Wetland 3 looking toward the farm field, facing northwest (9/23/15).





**Photo 27:** Parcel A - View of a stream channel flowing from Wetland 3 to the southern parcel boundary, facing south (9/23/15).



# Tighe & Bond



Portions of the proposed Project are located within 75 feet of wetlands or watercourses. As a result, the following protective measures will be utilized to avoid degradation of the nearby wetland systems.

It is of the utmost importance that the Contractor complies with the requirement for the installation of protective measures and the education of its employees and subcontractors performing work on the project site. These measures will also provide protection to nearby wetland systems. This protection program will be implemented regardless of time of year the construction activities occur. RES will designate a third-party Environmental Monitor for this project to confirm that wetland protection measures are implemented properly. The Contractor shall contact the Environmental Monitor at least 5 business days prior to the pre-construction meeting.

The wetland protection program consists of several components: use of appropriate erosion control measures to control and contain erosion while avoiding/minimizing wildlife entanglement; periodic inspection and maintenance of isolation structures and erosion control measures; education of contractors and sub-contractors prior to initiation of work on the site; protective measures; and, reporting.

### **Erosion and Sedimentation Controls**

Plastic netting used in a variety of erosion control products (i.e., erosion control blankets, fiber rolls [wattles], reinforced silt fence) has been found to entangle wildlife, including reptiles, amphibians, birds and small mammals. No permanent erosion control products or reinforced silt fence will be used on the project. Temporary erosion control products will use either erosion control blankets and fiber rolls composed of processed fibers mechanically bound together to form a continuous matrix (net less) or netting composed of planar woven natural biodegradable fiber to avoid/minimize wildlife entanglement.

Installation of erosion control measures shall be performed by the Contractor prior to any earthwork. The Environmental Monitor will inspect the work zone area prior to and following barrier installation to ensure erosion controls are properly installed.

In addition to required daily inspection by the Contractor, the fencing will be inspected for tears or breeches in the fabric following installation periodically by the Environmental Monitor throughout the course of the construction project.

The extent of the erosion controls will be as shown on the site plans. The Contractor shall have additional erosion control materials should field conditions warrant extending the fencing as recommended by the Environmental Monitor.

Silt fencing and other erosion control devices will be removed within 30 days of completion of work and permanent stabilization of site soils. If fiber rolls/wattles, straw bales, or other natural material erosion control products are used, such devices will not be left in place to biodegrade and shall be promptly removed after soils are stable so as not to create a barrier to migrating wildlife. Seed from seeding of soils should not spread over fiber rolls/wattles as it makes them harder to remove once soils are stabilized by vegetation.

### **Contractor Education**

Prior to work on site, the Contractor will attend an educational session at the pre-construction meeting with the Environmental Monitor. This orientation and educational session will consist of an introductory meeting with the Environmental Monitor to

understand the environmentally sensitive nature of the development site and the need to follow these protective measures.

### **Petroleum Materials Storage and Spill Prevention**

Certain precautions are necessary to store petroleum materials, refuel and contain and properly clean up any inadvertent fuel or petroleum (i.e., oil, hydraulic fluid, etc.) spill due to the project's location in proximity to sensitive wetlands.

A spill containment kit consisting of a sufficient supply of absorbent pads and absorbent material will be maintained by the Contractor at the construction site throughout the duration of the project. In addition, a waste drum will be kept on site to contain any used absorbent pads/material for proper and timely disposal off site in accordance with applicable local, state and federal laws.

The following petroleum and hazardous materials storage and refueling restrictions and spill response procedures will be adhered to by the Contractor.

### **Petroleum and Hazardous Materials Storage and Refueling**

Refueling of vehicles or machinery shall occur a minimum of 100 feet from wetlands or watercourses and shall take place on an impervious pad with secondary containment designed to contain fuels.

Any fuel or hazardous materials that must be kept on site shall be stored on an impervious surface utilizing secondary containment a minimum of 100 feet from wetlands or watercourses.

### **Initial Spill Response Procedures**

- Stop operations and shut off equipment
- Remove any sources of spark or flame
- Contain the source of the spill
- Determine the approximate volume of the spill
- Identify the location of natural flow paths to prevent the release of the spill to sensitive nearby waterways or wetlands
- Ensure that fellow workers are notified of the spill

### **Spill Clean Up & Containment**

- Obtain spill response materials from the on-site spill response kit. Place absorbent materials directly on the release area.
- Limit the spread of the spill by placing absorbent materials around the perimeter of the spill
- Isolate and eliminate the spill source
- Contact appropriate local, state and/or federal agencies, as necessary
- Contact a disposal company to properly dispose of contaminated materials.

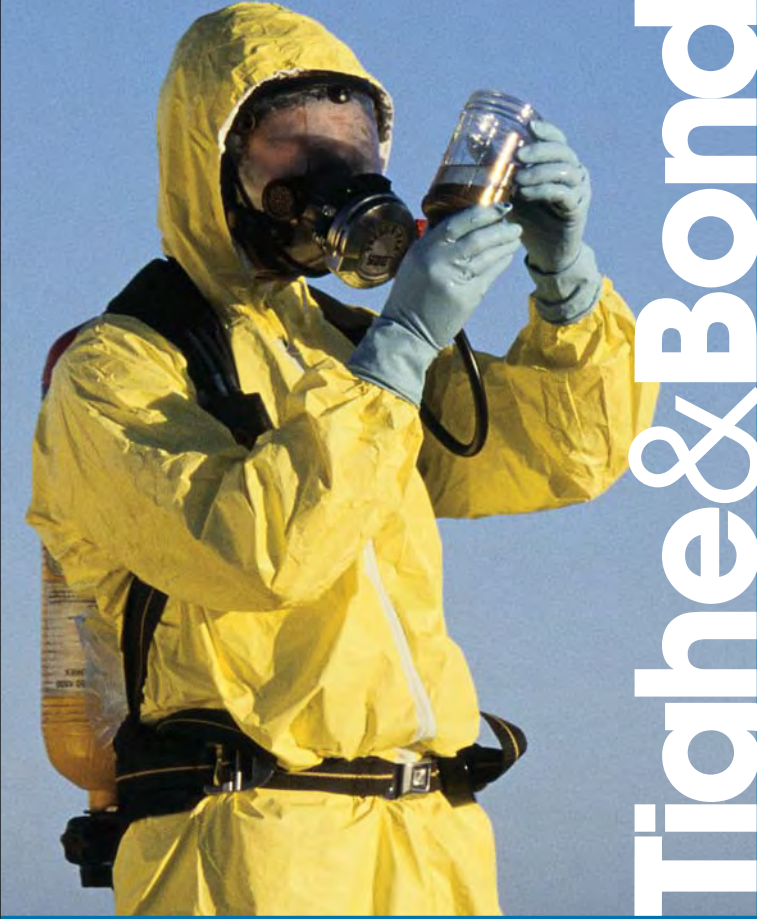


**Reporting – Spills**

- Complete an incident report
- Submit a completed incident report to appropriate local, state and/or federal agencies, as necessary.

**Reporting – Sediment Release**

- Any incidents of sediment release into nearby wetlands will be reported to the Connecticut Siting Council.



# Tighe & Bond





#### YEARS OF EXPERIENCE

17

#### SPECIALTIES

Wetland Evaluation & Delineation

Wetland Impact Assessments

Soil Mapping & Classification

Erosion & Sedimentation Control

Habitat Surveys

Environmental & Energy Permitting

#### LICENSES/REGISTRATIONS

Connecticut Certified Forester (#193)

Connecticut Licensed Forester

Professional Soil Scientist  
Society of Soil Scientists of Southern  
New England

Massachusetts Licensed Forester  
(#413)

Professional Wetland Scientist  
(#2302)

Certified Professional in Erosion and  
Sediment Control (#6828)

#### EDUCATION

Bachelor of Science  
Forestry

University of Massachusetts

New England Regional Soil Science  
Certificate Program University of  
Massachusetts & University of  
Connecticut

Matthew Davison is a Senior Environmental Scientist at Tighe & Bond with 17 years of experience in the environmental field. He is a Professional Soil Scientist, a Professional Wetland Scientist, a Certified Professional in Erosion and Sediment Control, and Licensed Forester. His experience as a natural resource professional includes wetland delineation, soil mapping and classification, wetland evaluation, wetland impact assessments and habitat surveys. In addition, he has extensive experience in local, state and federal wetland permitting. He has provided erosion and sedimentation control monitoring services on several projects as part of conditional approvals from both state and local agencies. He has extensive forestry experience, related to his position as the principal of a small forestry business providing a variety of activities related to forest management including forest mensuration, management planning, harvesting and forest products marketing.

#### Professional Experience

##### Environmental and Energy Permitting

- **Linear Electrical Transmission Projects:** Managed and conducted permitting, natural resource inventories and constructability evaluations along 4.5, 10, 35, and 57-mile long transmission corridors in southern, central and western Connecticut and southern Massachusetts. Natural resource evaluations included federal and state wetland delineation, Army Corps of Engineers data plots, wetland functions and values assessments, inventory of federal and state threatened and endangered species, vernal pool assessments and cover type mapping. Constructability evaluation included documenting and mapping of potential construction and maintenance access routes and transmission structure locations with respect to wetland and natural resource impacts and constructability constraints.
- **NERC Alert:** Manage natural resource inventories and mapping for Northeast Utilities, which was necessary for compliance with the North American Electric Reliability Corporation (NERC) rating recommendations. Provide assistance with federal permit determinations and sub-Petition filings with the Connecticut Siting Council.
- **Electric Transmission Maintenance Support:** Manage natural resource inventories and mapping for Northeast Utilities in support of ongoing maintenance to their electric transmission and distribution systems. Provide assistance with federal permit determinations and regulatory compliance as it pertains to utility maintenance work.
- **Wind Energy:** Managed environmental permitting efforts for siting of commercial wind farms at three locations in Connecticut. Conducted natural resource inventories including wetlands, existing flora and fauna, and habitat evaluations. Compiled technical documents and assisted in permitting with federal and state agencies. Provided expert testimony at the Connecticut Siting Council.
- **Electrical Substation Projects:** Provided due diligence and permitting support for existing or proposed bulk power substations in Waterford, Westport, Bloomfield and Lebanon, Connecticut. Provided natural resources inventories of existing flora and fauna, habitat evaluations, wetland delineations, wetland evaluations, site layout and design impact assessments, preparation of technical documents and coordination with federal, state and local agencies.

- **Town of East Lyme Water Main Interconnection Project:** Managed natural resource inventories and permitting efforts for a three-mile water main interconnection traversing three municipalities. Attended public hearings for Inland Wetlands Agency approval and assisted in the preparation of required state permit applications. Obtained a waiver from municipal permitting in two of three municipalities.
- **Town of Waterford, Connecticut:** Managed wetland permitting and erosion and sedimentation control monitoring for the expansion of Waterford High School in Waterford, Connecticut. Responsibilities included wetland delineation, wetland functions and values assessment, site layout and design impact assessments, preparation of technical documents, coordination with state and local agencies and permitting support. Attended public meetings and provided third party erosion and sedimentation control inspection services.
- **Telecommunications:** Provided technical support, including wetland delineation and site assessments, for various telecommunications providers. Responsible for wetland delineation, assessment, USFWS compliance documentation, design review for permit feasibility of telecommunications facilities in Connecticut and Massachusetts. Provided conditional erosion and sedimentation control monitoring during construction at several facilities.
- **CVS/Pharmacy:** Managed wetland permitting for CVS/Pharmacy at several locations throughout Connecticut. Responsibilities included wetland delineations, wetland evaluations, site layout and design impact assessments, preparation of technical documents, coordination with state and local agencies and permitting.
- **East Hartford Multi-Use Trail, East Hartford Connecticut:** Provided wetland and permitting support services for a proposed 2.75-mile extension of the Charter Oak Greenway multi-use trail. Wetland services included Connecticut and Federal wetland delineations and wetland evaluation. Prepared CTDEP Stream Channel Encroachment Line (SCEL) Permit and Flood Management Certification Applications for activities conducted within the SCEL and 100-year floodplain of the Connecticut River. Coordinated proposed design within these resources with CTDEP regarding permitting implications of the proposed design of the trail and alterations that would minimize impact to floodplain resources to facilitate permitting effort.
- **Bolton Multi-Use Trail, Bolton Connecticut:** Provided wetland delineation services for a proposed 2-mile multi-use trail that is part of the East Coast Greenway for the Town of Bolton. Following the delineation, recommendations were made to the VHB design team regarding route alterations that would avoid or minimize wetland impacts.



#### Additional Information - Water

- **Metropolitan District Commission Projects:** Conducted wetland and natural resource inventories for multiple projects including; Reservoir 6 to Reservoir 5 Raw Water Transmission Main (West Hartford), Canal Road to Potable Water Interconnection (West Hartford), Orchard Street Pump Station Improvements (Glastonbury), Farmington River Emergency Water Main Repair (Windsor), Eastbury Storage Tank Improvements (Glastonbury), Brook Street Pressure Regulating Valve Vault Improvements (Rocky Hill). Obtained the necessary wetland and natural resource permits for multiple projects. For several projects that included emergency work or water infrastructure maintenance or repair, was able to rapidly obtain the necessary municipal approvals to maintain project schedules without delay.
- **Aquarion Water Company Projects:** Conducted wetland and natural resource inventories and managed permitting efforts for multiple projects, including dam construction and repair projects. Managed ACOE Category 2 permitting and provided support for CTDEEP Dam Construction Permit for Lakeville Dam Project in Salisbury, Connecticut.
- **South Central Regional Water Authority, East Haven CT:** Conducted wetland delineation and obtained waiver for permitting for a pump station improvements project.
- **Holyoke Water Works, Holyoke MA:** Assisted Holyoke Water Works in obtaining a qualified forester to manage forest assets as part of a requirement to retain their filtration waiver. Prepared and issued an RFP, evaluated proposals, conducted interviews of potential candidates, and made recommendations for award.

## **Eric R. Davison, CSS, CPWS**

10 Maple Street, Chester, CT 06412

860-803-0938

ericrdavison@gmail.com

---

### **EDUCATION**

- |      |   |                    |
|------|---|--------------------|
| 2000 | <b>University of Massachusetts</b><br>New England Regional Soil Science Certificate Program   | <b>Amherst, MA</b> |
| 1998 | <b>University of Massachusetts</b><br>Bachelor of Science, Wildlife Conservation & Management | <b>Amherst, MA</b> |
- 

### **WORK EXPERIENCE**

- 1998-present **Davison Environmental, LLC, Chester, CT**  
**Owner - Wildlife Biologist, Wetland Scientist and Soil Scientist**
- Provided the following consulting services to clients:
- Herpetological surveys
  - Vernal pool inventory and impact assessment
  - Breeding bird surveys
  - Wetland delineation and soil mapping
  - Local, state and federal wetland permitting assistance
  - Wetland impact assessments
  - Wetland restoration and mitigation plans
  - Land management planning
  - Wetland functions and values assessments
  - GIS based environmental assessments
- 2009-2011 **Metropolitan Conservation Alliance**  
**Cary Institute of Ecosystem Studies, Millbrook, NY**  
**Biodiversity Specialist (three-year grant funded position)**
- Conducted biodiversity studies throughout Connecticut and New York under the direct supervision of program founder Dr. Michael W. Klemens
  - Inventory amphibian and reptile species using field techniques including cover searching, minnow trapping, pitfall trapping and hoop-net trapping
  - Characterize and map upland and wetland habitats, soils, geology and other natural resource features
  - Catalogue breeding bird species via visual identification and song
  - Collect field data using GPS equipment and compile data collected using GIS software (*ArcMap 10.0*); create GIS maps and files of all field data collected
- 2000-2002 **Northwest Park and Nature Center, Windsor, CT**  
**Naturalist -Land Manager**
- Responsible for habitat management and wildlife monitoring at 473-acre municipal park, with a focus on early-successional habitat management and monitoring of rare and state-listed grassland and shrubland wildlife
  - Conducted public programs and special events
  - Conducted conservation-related public outreach
  - Staff liaison for the Town of Windsor Conservation Commission



- 1998-2000      **Connecticut Department of Environmental Protection, Stafford, CT**  
*Park Maintainer*
- Maintained all state park and forest areas within Shenipsit State Forest Unit
  - Responsible for all facility and grounds maintenance
  - Regular equipment operation included chainsaws, tractor with backhoe, loader, dumptruck, snowplow, skid-steer, mowers & woodworking
- 1995            **Smithsonian Institution, Quantico Marine Base, Quantico, VA**  
*Field Technician*
- Mist netting and banding of neotropical migrant songbirds
  - Radio telemetry of the Wood Thrush (*Hylocichla mustelina*)
  - Vegetation surveys around wood thrush nesting sites

---

### **Certifications & Computer Skills**

- Certified Soil Scientist (Society of Soil Scientists of Southern New England)
- Certified Professional Wetland Scientist (Society of Wetland Scientists)
- Proficient in GIS (ESRI ArcMap 10.0), Microsoft Word, Excel & Access

---

### **Relevant Publications & Projects**

- Author, Audubon Important Bird Area Conservation Plan, Greenwich Point Park, Greenwich *in progress*
- Author and field biologist, conservation easement documentation plans (four parcels), Granby Land Trust, 2013
- Co-author, Town of Ridgefield Natural Resource Inventory, 2012
- Author and field biologist, open space management plans (six parcels), Northern Connecticut Land Trust, 2012
- Author, Audubon Important Bird Area Conservation Plan, Bent of the River Sanctuary, Southbury, CT, 2011
- Field biologist, point-count breeding bird surveys for CT Audubon, 2010 – 2011
- Author and field biologist, Lighthouse Point Meadow Restoration Plan, Lighthouse Point Park, New Haven, CT, 2011
- Field biologist and co-author, Haines Pond Management Plan, Brewster, NY, 2010
- Field biologist and co-author, Eastern Westchester Biotic Corridor: Northern Terminus Addendum, North Salem and Southeast, NY, 2010
- Field biologist and co-author, Haines Pond Biodiversity Study, Brewster, NY, 2009
- Field biologist and co-author, Eastern Westchester Biotic Corridor: Titicus Reservoir, North Salem, NY, 2009
- Author, Audubon Important Bird Area Conservation Plan, Northwest Park, Windsor, CT, 2007
- Field biologist and co-author, Town of Windsor Natural Resource Inventory, 2005

---

### **Professional Affiliations**

- Commissioner, Inland Wetlands and Watercourses Commission, Town of Chester, CT
- Board Member, Connecticut River Coastal Conservation District
- Member, Society of Soil Scientists of Southern New England

**EXHIBIT M:**

NDDB Correspondence





Connecticut Department of  
ENERGY & ENVIRONMENTAL  
PROTECTION

Bureau of Natural Resources  
Wildlife Division  
Natural History Survey – Natural Diversity Data Base

February 2, 2016

Mr. Briony Angus, AICP  
Tighe & Bond, Inc.  
53 Southampton Road  
Westfield, MA 01085

Regarding: Woods Hill Road Solar Project, 101 Woods Hill Road, Pomfret, Connecticut  
Natural Diversity Data Base 201509548

Dear Mr. Angus:

In response to your request for a Natural Diversity Data Base (NDDDB) Review of State-listed Endangered, Threatened, and Special Concern Species for Woods Hill Road Solar Project in Pomfret, Connecticut, our records for this site indicate the following extant populations of species on or within the vicinity of the site:

Hoary bat (*Lasiurus cinereus*) Protection Status: Species of Special Concern

Hoary bats are found in Connecticut during the spring and summer seasons and migrate south to overwinter. Their diet primarily consists of moths and beetles. These bats will roost high in large coniferous and deciduous trees. Female hoary bats are solitary and give birth mid-May to late June. If forest clearing occurs outside this time frame, direct negative impacts to this species will be minimized.

Red bat (*Lasiurus borealis*) Protection Status: Species of Special Concern

Red bats are considered to be “tree-roosting” bats. They roost out in the foliage of deciduous and coniferous trees, camouflaged as dead leaves or cones. Red bats are primarily solitary roosters. They can be found roosting and feeding around forest edges and clearings. Typically, larger diameter trees (12-inch DBH and larger) are more valuable to these bats. Additionally, trees with loose, rough bark such as maples, hickories, and oaks are more desirable than other tree species due to the increased cover that the loose bark provides. Large trees with cavities are also utilized by this species.

Silver-haired bat (*Lasionycteris noctivagans*) Protection Status: Species of Special Concern

Silver-haired bats typical roost sites include tree foliage, tree hollows, and crevices behind loose bark, but they are most likely to be found near water. They will typically give birth to their young in June or July, and the young will stay in roost until August.

Recommendations: If tree cutting is part of this project, work should be conducted in the winter when the bats are not in the area, specifically work should not be conducted after May

1<sup>st</sup> through August 15<sup>th</sup>. Long-term impacts can be minimized by retaining large diameter coniferous and deciduous trees whenever possible. If these bats are found, please report the information to the Wildlife Division.

#### Frosted elfin (*Callophrys irus*) Protection Status: Threatened Species

Frosted elfin butterflies are associated with the plant species wild blue lupine (*Lupinus perennis*) and wild indigo (*Baptisia tinctoria*). This butterfly is declining nationally because their associated plant species have been negatively impacted. These plants require open habitats on sandy or gravelly soils.

Recommendations: To help protect frosted elfin moths, surveys should be conducted by an invertebrate biologist to determine if favored plants are going to be impacted by this project. A report summarizing the results of such survey should include habitat descriptions, host plant locations, an invertebrate species list and a statement/resume giving the invertebrate biologist's qualifications, and, most importantly, mitigation measures to protect this species and their associated habitat. A DEEP Wildlife Division scientific collector's permit may be required by the invertebrate biologist to conduct survey work, therefore you should ask if your biologist has one. Survey results should be submitted to the DEEP Wildlife Division for review and approval before the project begins.

The Natural Diversity Data Base includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substituted for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available. If the project is not implemented within 12 months, then another Natural Diversity Data Base review should be requested for up-to-date information.

Thank you for consulting the Natural Diversity Data Base. If you have further questions, I can be reached by email at [Elaine.hinsch@ct.gov](mailto:Elaine.hinsch@ct.gov).

Sincerely,  
/s/  
Elaine Hinsch  
Program Specialist II  
Wildlife Division





Connecticut Department of  
 Energy & Environmental Protection  
 Bureau of Natural Resources  
 Wildlife Division

CPPU USE ONLY	
App #:	_____
Doc #:	_____
Check #:	No fee required
Program:	Natural Diversity Database Endangered Species
Hardcopy	_____ Electronic _____

## Request for Natural Diversity Data Base (NDDB) State Listed Species Review

Please complete this form in accordance with the [instructions](#) (DEEP-INST-007) to ensure proper handling of your request.

**There are no fees associated with NDDB Reviews.**

### Part I: Preliminary Screening & Request Type

<p>Before submitting this request, you must review the most current Natural Diversity Data Base "State and Federal Listed Species and Significant Natural Communities Maps" found on the <a href="#">DEEP website</a>. These maps are updated twice a year, usually in June and December.</p> <p>Does your site, including all affected areas, fall in an NDDB Area according to the map instructions:  <input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    <b>Enter the date</b> of the map reviewed for pre-screening: <u>December 2014</u></p>	
<p>This form is being submitted for a :</p>	
<input checked="" type="checkbox"/> <i>New NDDB request</i> <input type="checkbox"/> <i>Renewal/Extension of a NDDB Request, <b>without</b> modifications and within <b>one year</b> of issued NDDB determination (no attachments required)</i>	<input type="checkbox"/> <i>New <b>Safe Harbor Determination</b> (optional) must be associated with an application for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities</i> <input type="checkbox"/> <i>Renewal/Extension of an existing Safe Harbor Determination</i> <input type="checkbox"/> With modifications <input type="checkbox"/> Without modifications (no attachments required)
<p>[CPPU Use Only - NDDB-Listed Species Determination # 1736]</p>	<p>[CPPU Use Only - NDDB-Safe Harbor Determination # 1736]</p>
<p>Enter NDDB Determination Number for Renewal/Extension:</p>	<p>Enter Safe Harbor Determination Number for Renewal/Extension:</p>

## Part II: Requester Information

*\*If the requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, the name shall be stated **exactly** as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of the State's database CONCORD.*

[www.concord-sots.ct.gov/CONCORD/index.jsp](http://www.concord-sots.ct.gov/CONCORD/index.jsp)

*If the requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).*

*If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the [Request to Change company/Individual Information](#) to the address indicated on the form.*

### 1. Requester\*

Company Name: **Tighe & Bond, Inc.**

Contact Name: **Briony Angus, AICP**

Address: **53 Southampton Road**

City/Town: **Westfield**

State: **MA**

Zip Code: **01085**

Business Phone: **(413) 562-1600**

ext. **3302**

\*\*E-mail: **BAngus@tighebond.com**

\*\*By providing this email address you are agreeing to receive official correspondence from the department, at this electronic address, concerning this request. Please remember to check your security settings to be sure you can receive emails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes

#### a) Requester can best be described as:

Individual       Federal Agency       State agency       Municipality       Tribal

\*business entity (\* if a business entity complete i through iii):

i) Check type  corporation       limited liability company       limited partnership

limited liability partnership       statutory trust       Other:

ii) Provide Secretary of the State Business ID #: \_\_\_\_\_ This information can be accessed at the Secretary of the State's database (CONCORD). ([www.concord-sots.ct.gov/CONCORD/index.jsp](http://www.concord-sots.ct.gov/CONCORD/index.jsp))

iii)  Check here if your business is **NOT** registered with the Secretary of State's office.

#### b) Acting as (Affiliation), pick one:

Property owner       Consultant       Engineer       Facility owner       Applicant

Biologist       Pesticide Applicator       Other representative:

### 2. List Primary Contact to receive Natural Diversity Data Base correspondence and inquiries, if different from requester.

Company Name:

Contact Person:

Title:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

\*\*E-mail:



### Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

<p><b>1. SITE NAME AND LOCATION</b></p> <p>Site Name or Project Name: <b>Woods Hill Road Solar Project</b></p> <p>Town(s): <b>Pomfret</b></p> <p>Street Address or Location Description: <b>101 Woods Hill Road</b></p> <p>Size in acres, or site dimensions: <b>Limit of Work = 116 acres; Total Project Site = 227 acres (Approximately 51 acres of Parcel A and 65 acres of Parcel B).</b></p> <p>Latitude and longitude of the center of the site in decimal degrees (e.g., 41.23456 -71.68574):</p> <p>Latitude: <b>41.83275</b> Longitude: <b>71.920183</b></p> <p>Method of coordinate determination (check one):</p> <p><input type="checkbox"/> GPS    <input type="checkbox"/> Photo interpolation using <a href="#">CTECO map viewer</a>    <input checked="" type="checkbox"/> Other (specify): <b>Google Earth</b></p> <p>2a. Describe the current land use and land cover of the site.</p> <p><b>The Site consists of relatively flat, cleared, agricultural land with frontage off of Woods Hill Road. Stone walls traverse portions of the agricultural land on both parcels. The Site is located just north of the municipal boundary between Pomfret and Brooklyn, Connecticut. Wooded areas surround the agricultural fields on both parcels. A large Connecticut Light &amp; Power transmission line and right of way traverse Parcel A to the east of the cleared portion. The Quinebaug River is located approximately 1,200 feet to the east of the agricultural land on Parcel A. The Site contains inland wetlands and watercourses. Based on a review of GIS data, a portion of Parcel B includes rare species habitat mapped pursuant to the Natural Diversity Database program. There is no regulatory floodplain at the Site.</b></p> <p>b. Check all that apply and enter the size in acres or % of area in the space after each checked category.</p> <table><tr><td><input type="checkbox"/> Industrial/Commercial _____</td><td><input type="checkbox"/> Residential _____</td><td><input checked="" type="checkbox"/> Forest <u>15</u></td></tr><tr><td><input type="checkbox"/> Wetland _____</td><td><input type="checkbox"/> Field/grassland _____</td><td><input checked="" type="checkbox"/> Agricultural <u>80</u></td></tr><tr><td><input type="checkbox"/> Water _____</td><td><input checked="" type="checkbox"/> Utility Right-of-way <u>5</u></td><td></td></tr><tr><td><input type="checkbox"/> Transportation Right-of-way _____</td><td><input type="checkbox"/> Other (specify): _____</td><td></td></tr></table>	<input type="checkbox"/> Industrial/Commercial _____	<input type="checkbox"/> Residential _____	<input checked="" type="checkbox"/> Forest <u>15</u>	<input type="checkbox"/> Wetland _____	<input type="checkbox"/> Field/grassland _____	<input checked="" type="checkbox"/> Agricultural <u>80</u>	<input type="checkbox"/> Water _____	<input checked="" type="checkbox"/> Utility Right-of-way <u>5</u>		<input type="checkbox"/> Transportation Right-of-way _____	<input type="checkbox"/> Other (specify): _____	
<input type="checkbox"/> Industrial/Commercial _____	<input type="checkbox"/> Residential _____	<input checked="" type="checkbox"/> Forest <u>15</u>										
<input type="checkbox"/> Wetland _____	<input type="checkbox"/> Field/grassland _____	<input checked="" type="checkbox"/> Agricultural <u>80</u>										
<input type="checkbox"/> Water _____	<input checked="" type="checkbox"/> Utility Right-of-way <u>5</u>											
<input type="checkbox"/> Transportation Right-of-way _____	<input type="checkbox"/> Other (specify): _____											

### Part IV: Project Information

<p><b>1. PROJECT TYPE:</b></p> <p>Choose Project Type: Utility construction/modification , If other describe: _____</p>
---

2. Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint?  Yes  No If yes, explain.



## Part IV: Project Information (continued)

3. Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used. Include a description of steps that will be taken to minimize impacts to any known listed species.

**RES America Developments, Inc. (RES, developer/ owner) is submitting this NDDB Review Request for the proposed installation of an approximately 25.6 MW(DC)/ 19.25(AC) ground-mounted solar PV system within two parcels (Parcel A and Parcel B) located near the terminus of Woods Hill Road in Pomfret, Connecticut. Parcel A (approximately 113 acres) is located to the south/ east of the terminus of Woods Hill Road. Parcel B (approximately 114 acres) is located to the north/ west of Woods Hill Road. RES will purchase the properties from the current owner. The total Site area is approximately 227 acres. As proposed, the limit of work of the proposed project will occupy approximately 116 acres of the 227-acre project Site (51 acres of Parcel A and 65 acres of Parcel B).**

**The Site consists of relatively flat, cleared, agricultural land with frontage off of Woods Hill Road. Stone walls traverse portions of the agricultural land on both parcels. The Site is located just north of the municipal boundary between Pomfret and Brooklyn, Connecticut. Wooded areas surround the agricultural fields on both parcels. A large Connecticut Light & Power transmission line and right of way traverse Parcel A to the east of the cleared portion. The Quinebaug River is located approximately 1,200 feet to the east of the agricultural land on Parcel A. The Site contains inland wetlands and watercourses. Based on a review of GIS data, a portion of Parcel B includes rare species habitat mapped pursuant to the Natural Diversity Database program. There is no regulatory floodplain at the Site.**

**Proposed activities include selective vegetation clearing, construction of a new gravel access road, installation of solar PV modules and equipment pads, and the installation of a chain-link security fence along the facility's perimeter . Approximately 80,500 310 watt solar PV modules (4 x 5 landscape layout) will be installed.**

**The solar modules will be erected using a driven metal post foundation system. As shown on Sheet 4 in Appendix B, portions of the proposed PV arrays will be located 75 feet from delineated inland wetlands. The racks will run east-west and will be mounted facing south at a fixed 25 degree angle to ground surface. The rows of racks will be spaced approximately 15 feet apart.**

**Approximately 14 reinforced concrete electrical equipment pads (28' x 28') will support the electrical equipment. The electrical equipment pads will contain inverters, switchgear and transformers that will step-up the voltage prior to interconnecting with Eversource's local distribution circuit. The solar PV project will interconnect with the utility at distribution voltage on the property at the limit of the right of way. This connection will utilize a combination of underground conduits and overhead wiring and equipment required by the utility company. An emergency system cut-off switch will be installed in a location designated by Eversource.**

**The arrays on each parcel will be accessed via a new 16-foot wide access road. The access road entrance to each parcel is on Woods Hill Road. The proposed access road will be comprised of approximately 6 inches of dense graded crushed stone or clean, uncoated aggregate base course (ABC) (per CT DEEP standards) placed above existing grades. Minor grading may be required along the proposed access road in select locations based on topography.**

**The project also consists of select removal and clearing of existing vegetation to minimize shade impacts. Portions of this work will occur approximately 75 to 100 feet from delineated inland wetlands. Erosion and sedimentation controls will be installed around the project site prior to vegetation removal. The vegetation will be cut and stumps will remain. All cut vegetation will be chipped on-site and either removed and disposed, or left in place to further stabilize the site. The ground beneath the solar arrays will be planted with fescue species. The aisles will be planted with a low-growing solar array mix.**

**RES and/or its authorized subcontractors will perform site maintenance to ensure safety and prevent shading impacts. Mowing of the grass between the rows of racks may occur as needed but**

**estimated at twice per year. No herbicides or chemicals will be used to manage vegetation.**

**Temporary construction measures will include installation of a 4" gravel construction entrance and a siltation fence for erosion control.**

4. If this is a renewal or extension of an existing Safe Harbor request *with* modifications, explain what about the project has changed.

5. Provide a contact for questions about the project details if different from Part II primary contact.

Name:

Phone:

E-mail:



## Part V: Request Requirements and Associated Application Types

Check *one* box from either Group 1, Group 2 *or* Group 3, indicating the appropriate category for this request.

**Group 1.** If you check one of these boxes, complete Parts I – VII of this form and submit the required attachments A and B.

- Preliminary screening was negative but an NDDB review is still requested
- Request regards a municipally regulated or unregulated activity (no state permit/certificate needed)
- Request regards a preliminary site assessment or project feasibility study
- Request relates to land acquisition or protection
- Request is associated with a *renewal* of an existing permit, with no modifications

**Group 2.** If you check one of these boxes, complete Parts I – VII of this form and submit required attachments A, B, *and* C.

- Request is associated with a *new* state or federal permit application
- Request is associated with modification of an existing permit
- Request is associated with a permit enforcement action
- Request regards site management or planning, requiring detailed species recommendations
- Request regards a state funded project, state agency activity, or CEPA request

**Group 3.** If you are requesting a **Safe Harbor Determination**, complete Parts I-VII and submit required attachments A, B, and D. Safe Harbor determinations can only be requested if you are applying for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

If you are filing this request as part of a state or federal permit application(s) enter the application information below.

Permitting Agency and Application Name(s):

**Connecticut Siting Council - Petition for Declaratory Ruling for a Renewable Energy Facility**

State DEEP Application Number(s), if known: \_\_\_\_\_

State DEEP Enforcement Action Number, if known: \_\_\_\_\_

State DEEP Permit Analyst(s)/Engineer(s), if known: \_\_\_\_\_

Is this request related to a previously submitted NDDB request?  Yes  No

If yes, provide the previous NDDB Determination Number(s), if known: \_\_\_\_\_

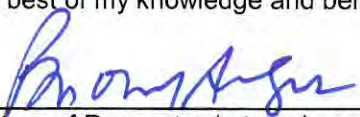
## Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all new requests and Safe Harbor renewals/extensions with modifications.** Renewals/Extensions with no modifications do not need to submit any attachments. Attachments C and D are supplied at the end of this form.

<input checked="" type="checkbox"/> Attachment A:	<b>Overview Map:</b> an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrangle Map clearly indicating the exact location of the site.
<input checked="" type="checkbox"/> Attachment B:	<b>Detailed Site Map:</b> fine scaled map showing site boundary and area of work details on aerial imagery with relevant landmarks labeled. (Site and work boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document)
<input checked="" type="checkbox"/> Attachment C:	<b>Supplemental Information, Group 2 requirement (attached, DEEP-APP-007C)</b> <input checked="" type="checkbox"/> Section i: Supplemental Site Information and supporting documents <input checked="" type="checkbox"/> Section ii: Supplemental Project Information and supporting documents
<input type="checkbox"/> Attachment D:	<b>Safe Harbor Report Requirements, Group 3 (attached, DEEP-APP-007D)</b>

## Part VII: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

<p>"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief."</p>	
 Signature of Requester (a typed name will substitute for a handwritten signature)	12/10/2015 Date
<b>Briony Angus</b> Name of Requester (print or type)	<b>Senior Project Manager</b> Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Note: Please submit the completed Request Form and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT  
 DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION  
 79 ELM STREET  
 HARTFORD, CT 06106-5127

Or email request to: [deep.nddbrequest@ct.gov](mailto:deep.nddbrequest@ct.gov)



# Attachment C: Supplemental Information, Group 2 requirement

## Section i: Supplemental Site Information

### 1. Existing Conditions

Describe all natural and man-made features including wetlands, watercourses, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan that must be submitted. Photographs of current site conditions may be helpful to reviewers.

The Site consists of relatively flat, cleared, agricultural land with frontage off of Woods Hill Road. Stone walls traverse portions of the agricultural land on both parcels. Wooded areas surround the agricultural fields on both parcels. A large Connecticut Light & Power transmission line and right of way traverse Parcel A to the east of the cleared portion. The Quinebaug River is located approximately 1,200 feet to the east of the agricultural land on Parcel A. The proposed work is located greater than 150 feet from the Quinebaug River. No floodplain exists within the limits of the subject parcels. The Site contains inland wetlands and watercourses. Based on a review of GIS data, a portion of Parcel B includes rare species habitat mapped pursuant to the Natural Diversity Database program. There is no regulatory floodplain at the Site.

As shown on Sheet 4 in Appendix B, portions of the proposed PV arrays will be located 75 feet from delineated inland wetlands. The project consists of select removal and clearing of existing vegetation to minimize shade impacts. Portions of the vegetation clearing will occur approximately 75 to 100 feet from delineated inland wetlands.

- Site Photographs (optional) attached
- Site Plan/sketch of existing conditions attached

### 2. Biological Surveys

Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species  Yes  No

If yes, complete the following questions and submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDDB survey forms.

Biologist(s) name: \_\_\_\_\_

Habitat and/or species targeted by survey: \_\_\_\_\_

Dates when surveys were conducted: \_\_\_\_\_

- Reports of biological surveys attached
- Documentation of biologist's qualifications attached
- [NDDDB Survey forms](#) for any listed species observations attached

## Section ii: Supplemental Project Information

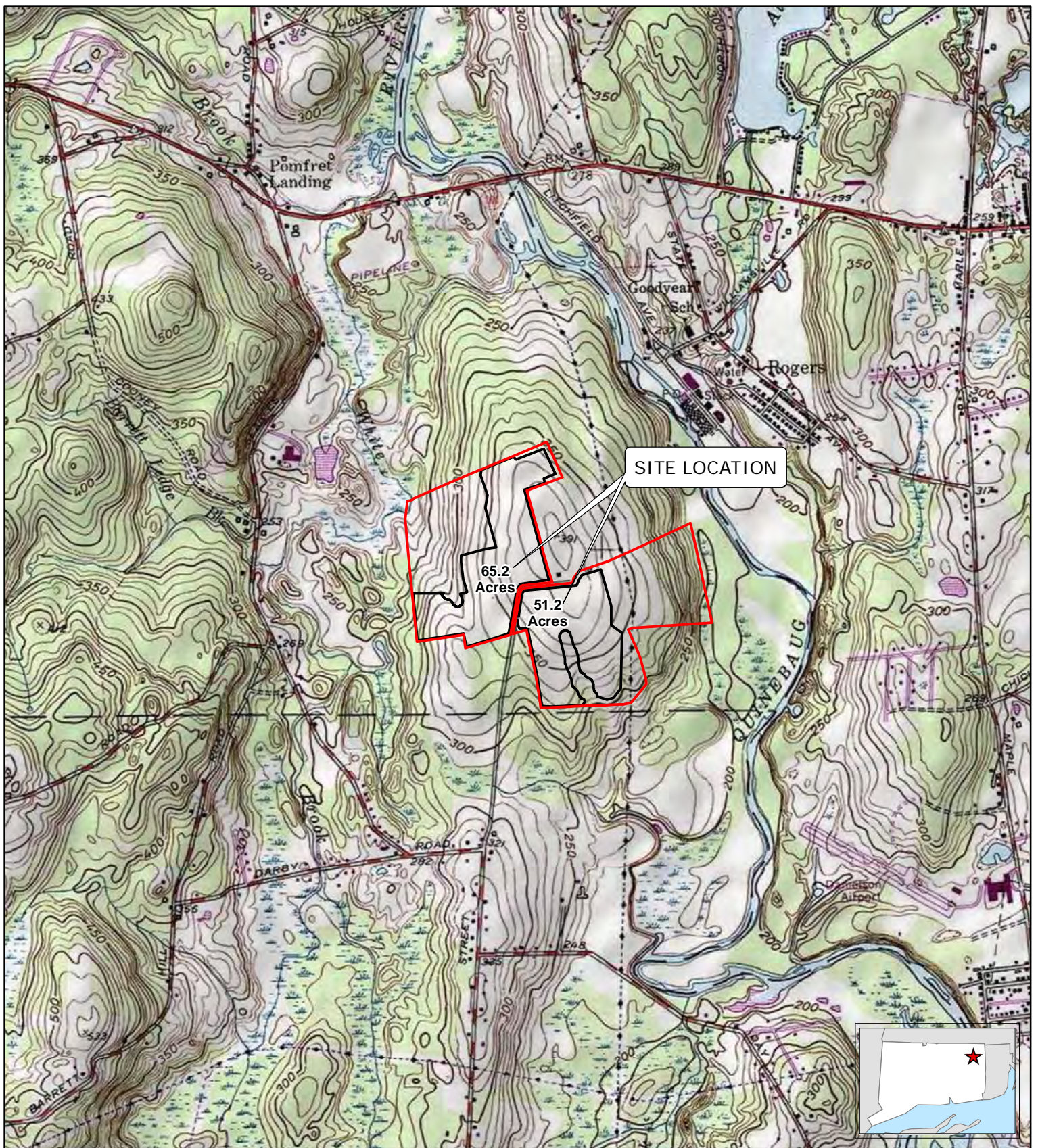
1. Provide a schedule for all phases of the project including the year, the month and/or season that the proposed activity will be initiated and the duration of the activity.

**The project is proposed to commence in June 2016 and continue through October 2016.**

2. Describe and quantify the proposed changes to existing conditions and describe any on-site or off-site impacts. In addition, provide an annotated site plan detailing the areas of impact and proposed changes to existing conditions.

**Annotated Site Plan attached**



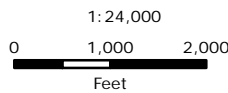


**Legend**

- Site Parcels
- Project Area Boundary



Based on USGS Topographic Map for  
 Danilson, Revised 1970.  
 Contour Interval Equals 10-feet.

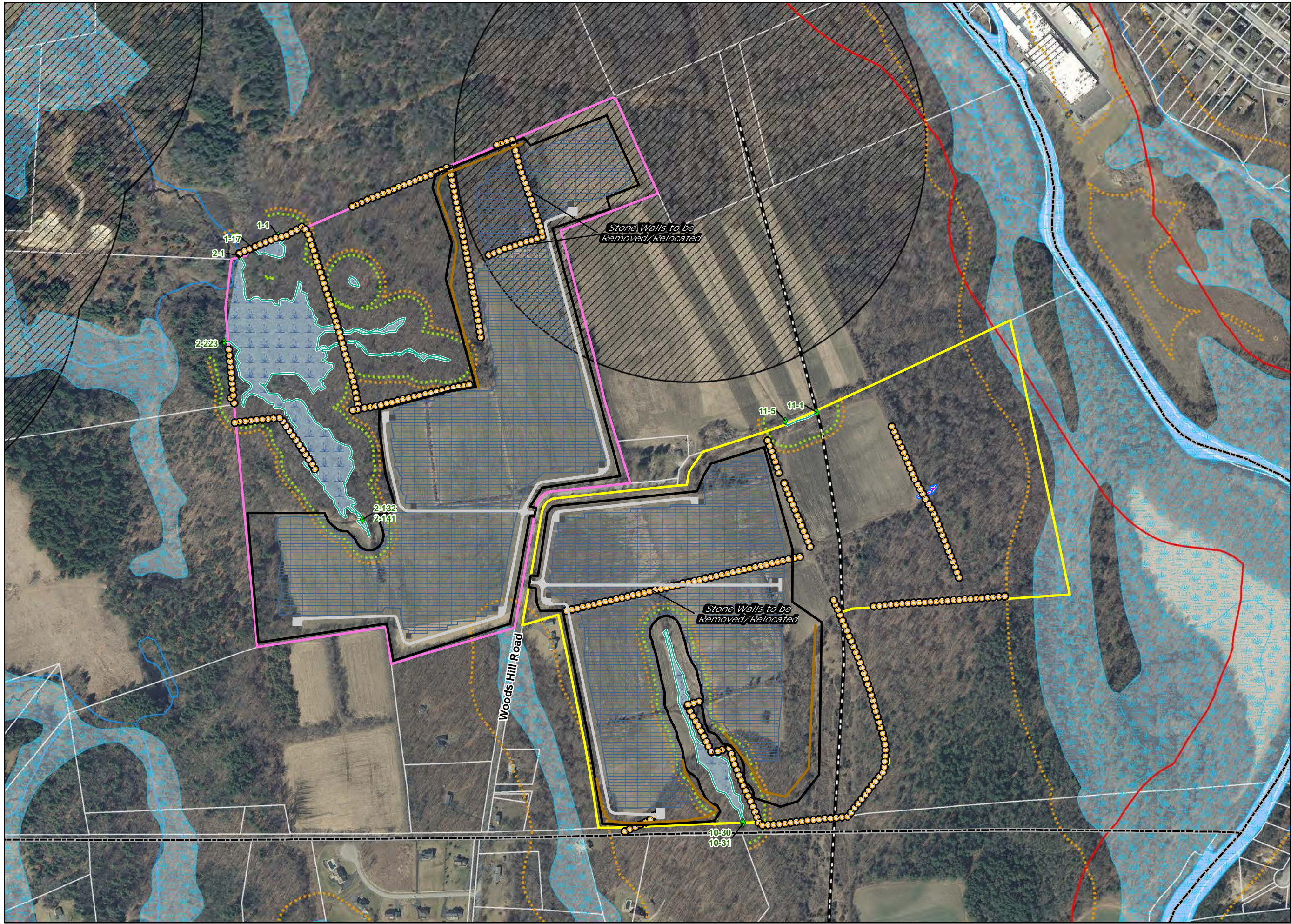


ATTACHMENT A  
 OVERVIEW MAP  
 Woods Hill Road Solar Project  
 Pomfret, Connecticut

October 2015

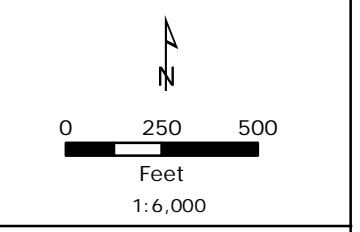
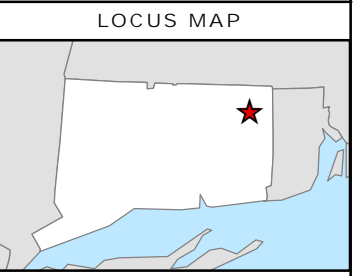


Attachment B  
Detailed Site Map



**LEGEND**

- Site Parcel A (113 Acres)
- Site Parcel B (114 Acres)
- Project Area (~116 Acres)
- Proposed Solar Panels
- Access Road
- Equipment Pad
- Proposed Limits of Tree Clearing
- Delineated Wetland Boundary
- ◆ Start/End Wetland Flag
- Wetland Area
- CT DEEP Inland Wetland Soils
- 120' Wetland Buffer
- 150 Foot Upland Review Area
- 345 Kv Transmission Line
- 500 Foot Upland Review Area
- Watercourse
- Waterbody
- Natural Diversity Database Area
- Stone Wall
- Drainage Channel
- Parcel Boundary
- Town Boundary



- NOTES**
1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
  2. 2012 Imagery provided by CT DEEP
  3. Wetland delineation completed by Tighe & Bond on September 1, 8, 10, 23 and 25, 2015.

Woods Hill Road  
Solar Project  
Pomfret, Connecticut

November 2015



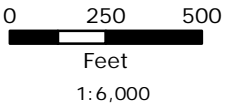


Attachment C  
Supplemental  
Information

LEGEND

- Site Parcel A (113 Acres)
- Site Parcel B (114 Acres)
- Delineated Wetland Boundary
- ◆ Start/End Wetland Flag
- Wetland Area
- CT DEEP Inland Wetland Soils
- 120' Wetland Buffer
- 150' Upland Review Area
- 500' Upland Review Area
- Watercourse
- Waterbody
- Natural Diversity Database Area
- Stone Wall
- Drainage Channel
- 345 Kv Transmission Line
- Parcel Boundary
- Town Boundary

LOCUS MAP



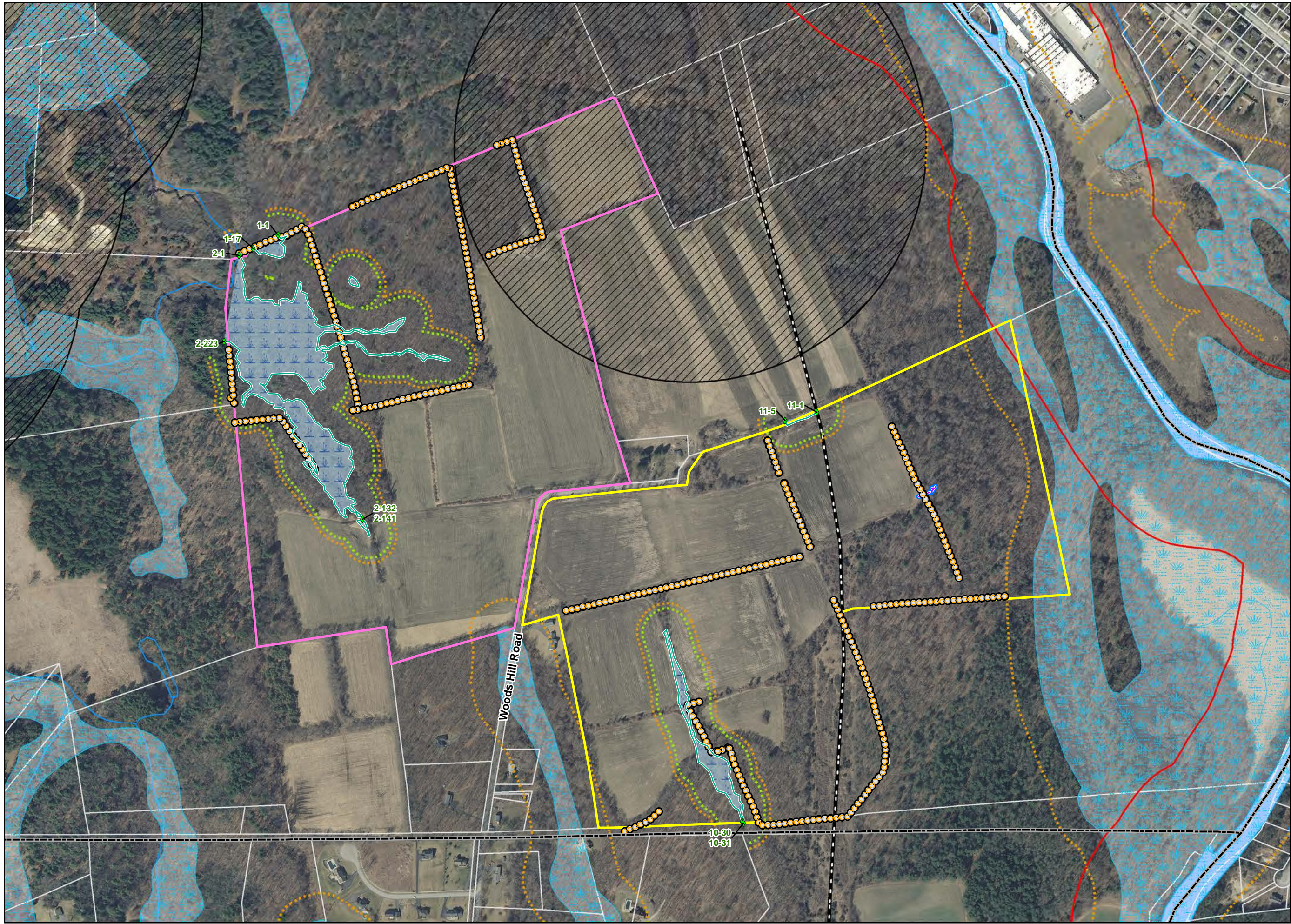
1:6,000

NOTES

1. Connecticut DEEP, Office of Information Management GIS Data and State of Connecticut
2. 2012 imagery provided by CT DEEP.

Woods Hill Road  
Solar Project  
Pomfret, Connecticut

October 2015







**Photo 1:** Parcel B - View of the western farm field, facing west toward the proposed tree removal area and parcel boundary (9/08/2015).



**Photo 2:** Parcel B - View of the tree line within the southern field, facing north (9/8/2015).





**Photo 3:** View of the southwestern farm field in Parcel B, facing southeast (9/8/2015).



**Photo 4:** Parcel B - View of the southern farm field, facing east toward Woods Hill Road (9/8/2015).





**Photo 5:** Parcel B – Representative view of the proposed tree removal area within northern forested portion of parcel and within mapped NDDB polygon, facing east (9/10/2015).



**Photo 6:** Parcel B – Representative view of the proposed tree removal area near northern parcel boundary, facing east (9/10/2015).





**Photo 7:** Parcel A - View of the northern farm field, facing southwest toward Woods Hill Road and parcel boundary (9/23/2015).



**Photo 8:** Parcel A - View of the transmission line and farm field located outside (and east of) the Project Boundary, facing south (9/25/2015).





**Photo 9:** Parcel A - View of the transmission line located outside (and east of) the Project Boundary, facing north (9/25/2015).



**Photo 10:** Parcel A - View of the proposed tree removal area and eastern Project Boundary from the transmission line Right of Way, facing west (9/25/15).





**Photo 11:** Parcel A – Representative view of the forested area outside (and east of) the Project Boundary and transmission line ROW in the eastern portion of the parcel. View facing east (9/25/2015).



**Photo 12:** Parcel A - View of the vegetated access road outside (and east of) the Project Boundary and along the northern parcel boundary, facing east (9/25/15).

## **EXHIBIT N:**

### Stormwater Management Report



Woods Hill Solar Project, Pomfret







**Tighe&Bond**

## **Stormwater Report**

Solar Facility Installation

Woods Hill Solar Project  
Pomfret, Connecticut

Prepared For:

**Woods Hill Solar, LLC**

March 2016

**Section 1 Project Introduction**

**Section 2 Project Description**

2.1 Existing Conditions .....2-1  
2.2 Proposed Improvements .....2-3  
2.3 Hydrologic Analysis .....2-5

**Section 3 Regulatory Compliance**

3.1 Stormwater Manual Compliance .....3-1  
3.1.1 Water Quality Volume.....3-1  
3.1.2 Water Quality Flow.....3-1  
3.1.3 Groundwater Recharge .....3-1  
3.2 Soil Erosion and Sediment Control Guidelines .....3-2  
3.2.1 Erosion and Sedimentation Control Narrative .....3-2  
3.2.2 Erosion and Sedimentation Control Notes .....3-2  
3.2.3 Construction Sequence .....3-3

**Appendices**

A Figures  
    Figure 1: USGS Site Locus Map  
    Figure 2: Existing Conditions Drainage Area Map  
    Figure 3: Proposed Conditions Drainage Area Map  
B Soils Data  
C Hydrologic and Hydraulic Calculations

J:\R\R0298\Permitting\Pomfret CT Siting Council\Stormwater\Narrative\Stormwater\_Report\_Pomfret.docx



## **Section 1**

# **Project Introduction**

On behalf of Woods Hill Solar, LLC, Tighe & Bond has prepared this Stormwater Management Report in support of the Petition submitted to the Connecticut Siting Council for a declaratory ruling that a Certificate of Environmental Compatibility and Public Need is not required for the construction, operation and maintenance of a ground-mounted solar photovoltaic (PV) facility of approximately 17.61 MW<sub>AC</sub> to be constructed off of Woods Hole Road in the Town of Pomfret, Connecticut (the Project).

Components of the system to be installed at the project site include solar panels, mounting substrates, system foundations, wiring and connections, power inverters, service and metering equipment, and interconnection with the utility. The project also consists of construction of an access road to the array for installation and maintenance and select vegetation clearing. A USGS Site Locus figure is provided in Appendix A. Project Drawings are attached separately to the Petition.

## **Section 2**

# **Project Description**

### **2.1 Existing Conditions**

The project site consists of two parcels (Parcel A and Parcel B) located near the terminus of Woods Hill Road in Pomfret, Connecticut; jointly referred to as “the Site.” The Project is located at 90 Woods Hill Road (Parcel A) and 101 Woods Hill Road (Parcel B)). Parcel A (approximately 115 acres) is located to the southeast of the terminus of Woods Hill Road, while Parcel B (approximately 113 acres) is located to the northwest. The Site is undeveloped, agricultural and wooded land. Currently, the Property is utilized for agricultural uses (hay and corn fields). The Site does not house any structures. Land uses adjacent to the Site and within the immediate locale are predominantly agricultural and wooded open space. Several residences are located to the south of the proposed Site.

The Site consists of relatively flat, cleared, land with frontage off of Woods Hill Road. Site topography in the area proposed for development is generally uniform, with a slight downward slope from north to south. Stone walls traverse portions of the agricultural land on both parcels. Wooded areas surround the agricultural fields on both parcels. A large Connecticut Light & Power (now doing business as Eversource) transmission line and Right Of Way traverse Parcel A to the east of the cleared portion. The Quinebaug River is located approximately 1,200 feet to the east of the agricultural land on Parcel A. The proposed work is located greater than 2,000 feet from the Quinnebag River. No floodplain exists within the limits of the subject parcels. The Site contains inland wetlands and watercourses. Based on a review of GIS data and consultation with DEEP, a portion of Parcel B includes rare species habitat mapped pursuant to the Natural Diversity Database program. There is no regulatory floodplain at the Site.

NRCS soil data was obtained through the Web Soil Survey portal on the USDA NRCS website. The areas surrounding the property were queried for soil types according to the record soil survey maps maintained by NRCS. Soil types depicted on the soils map on the subject property include Ridgebury association, Hinckley association, Woodbridge association, Canton and Charlton association, Charlton-Chatfield association, Paxton and Montauk association, Pootatuck association and Rippowam association. Each soil classification is further detailed below. NRCS soils information is provided in Appendix B.



**Table 2.1**  
NRCS Soil Summary

<b>Soil Association</b>	<b>Map Unit Designation</b>	<b>Additional Description</b>	<b>Hydrologic Soil Group ( HSG)</b>
Ridgebury association	2	Fine sandy loam	D
Ridgebury, Leicester, and Whitman association	3	Extremely stony	D
Hinckley association	38C	Loamy sand	A
Woodbridge association	45A, 45B, 46B, 47C	Fine sandy loam	C/D
Canton and Charlton association	60C, 62C, 62D	Stony	B
Charlton-Chatfield association	73C, 73E	Rocky	B
Paxton and Montauk association	84B, 84C, 85B	Fine sandy loam	C
Pootatuck association	102	Fine sandy loam	B
Rippowam association	103	Fine sandy loam	B/D

In addition to the NRCS Soil Data provided above, a comprehensive test pit and boring investigation was conducted on the site in December 2015. The results of the test pits and borings are provided in Appendix B. In general, the borings and test pits confirm the NRCS soil mapping in that the site is predominantly sand with some gravel and smaller areas of silt. Bedrock depths ranged from 9 to 22 feet below existing grade.

The topography of the existing conditions site conveys stormwater runoff radially from a high point located in the central portion of the project area. The project was divided into five existing conditions subcatchments conveying stormwater runoff radially off-site. The Existing Conditions Drainage Area Map is provided as Figure 3 in Appendix A. A summary of the existing conditions drainage area size and runoff curve number is provided in Table 2.2 below.

**Table 2.2**

Existing Conditions Drainage Area Summary

<b>Subcatchment Designation</b>	<b>Area (acres)</b>	<b>Weighted Runoff Curve Number (RCN)</b>
Drainage Area 10S	56.3	73
Drainage Area 20S	22.5	69
Drainage Area 30S	40.5	81
Drainage Area 40S	101.4	78
Drainage Area 50S	11.5	81
<b>Overall Existing Project</b>	<b>232.2</b>	<b>77</b>

Stormwater runoff from the existing site generally flows radially to the wetland areas surrounding the site. Drainage Area 10S conveys stormwater runoff easterly to an unmapped wetland. Drainage Area 20S conveys stormwater runoff southeasterly to a wooded area off-site. Drainage Area 30S conveys stormwater runoff southwesterly towards an off-site, unmapped wetland. Drainage Area 40S conveys stormwater runoff northwesterly towards a large wetland system. Drainage Area 50S conveys stormwater runoff northerly off-site. Each Drainage Area is associated with a design point so as to compare existing and proposed peak rate discharges as discussed further in this report.

## 2.2 Proposed Improvements

The project consists of the installation of an approximately 22 MW<sub>(DC)</sub>/ 17.61<sub>(AC)</sub> ground-mounted solar PV system within the site made up of Parcel A and Parcel B. The total Site area is approximately 227 acres. As proposed, the limit of work of the proposed project will occupy approximately 102 acres of the 228-acre project Site (42.78 acres of Parcel A and 59.67 acres of Parcel B).

Proposed activities include selective vegetation clearing, construction of a new gravel access road, installation of solar PV modules and equipment pads. Approximately 69,882 315 watt solar PV modules (4 x 5 landscape layout) will be installed.

The solar modules will be erected using a driven metal post foundation system. The racks will be installed approximately 16 feet apart. Portions of the proposed PV arrays will be located 75 feet from delineated inland wetlands. The racks will run east-west and will be mounted facing south at a fixed 25 degree angle to ground surface.

The arrays on each parcel will be accessed via a proposed 12-foot wide access road. The access road entrance to each parcel is from Woods Hill Road. The proposed access road will be comprised of approximately 6 inches of dense graded crushed stone placed above existing grades. Minor grading may be required along the proposed access road in select locations based on topography; however in general, the access road will be graded to mimic existing topography.

The project also consists of select removal and clearing of existing vegetation to minimize shade impacts. Portions of this work will occur no closer than 75 feet from delineated inland wetlands. Erosion and sedimentation controls will be installed around the project site prior to vegetation removal. Temporary construction measures will include installation of a 4" gravel construction entrance and a siltation fence for erosion control. The



vegetation will be cut and stumps will remain in the areas outside of the array. Stumps will be removed within the array area. All cut vegetation will be chipped on-site and either removed and disposed, or left in place to further stabilize the site. The ground beneath the solar arrays will be planted with fescue species. The aisles will be planted with a low-growing solar array mix.

Woods Hill Solar, LLC and/or its authorized subcontractors will perform site maintenance to ensure safety and prevent shading impacts. Mowing of the grass within the array will occur as needed but estimated at twice per year. No herbicides or chemicals will be used to manage vegetation.

The topography of the site will not significantly change as a result of the proposed development. While the proposed installation requires that some existing vegetation be removed, the existing topography shall remain generally unchanged. Micro-grading, or the grading of existing undulations, will occur prior to installation of the solar array; however this activity will not cause substantial changes to drainage areas or stormwater flow paths on the site.

Under proposed conditions, large portions of the agricultural uses will be converted to solar array where panels will be installed using driven piles or ground screws. Existing hay fields will be cut and existing growth will be maintained. Within areas of existing corn fields, grass will be planted and will be allowed to grow and develop into a grassy meadow. Stormwater will fall onto solar panels and will flow off the edge into the vegetated surface and flow along existing flow paths as under existing conditions. Therefore, the only solar panels that are considered impervious will be the most up-gradient panels in each subcatchment.<sup>1</sup> The remainder of the solar facility within the limit of work will be considered meadow, non-grazed. Concrete equipment pads, existing and proposed gravel access roads, woodland, remaining agricultural fields and wetland areas surfaces were also included in the post-development analysis.

Since the project will not substantially alter topography of the site, the Proposed Conditions Drainage Area Map, provided as Figure 2 in Appendix A, indicates that the five existing conditions drainage areas will also serve as the five proposed conditions drainage areas. The five proposed areas will continue to discharge stormwater runoff the five associated design points previously described. Proposed drainage areas are further described Table 2.3 below.

**Table 2.3**

Proposed Conditions Drainage Area Summary

<b>Subcatchment Designation</b>	<b>Area (acres)</b>	<b>Weighted Runoff Curve Number (RCN)</b>
Drainage Area 10S	56.3	69
Drainage Area 20S	22.5	64
Drainage Area 30S	40.5	72
Drainage Area 40S	101.4	73
Drainage Area 50S	11.5	73

<sup>1</sup> Cook, L.M. & McCuen, R. H., (2013). Hydrologic Response of Solar Farms. *Journal of Hydrologic Engineering*, 18(5). pp.536-541

<b>Overall Proposed Project</b>	<b>232.2</b>	<b>71</b>
---------------------------------	--------------	-----------

The decrease in the runoff curve number is due to the conversion of agricultural fields to a grassy meadow condition, which offsets the impacts of the proposed gravel access road and concrete equipment pads. Within the solar array, stormwater will fall onto the PV modules and will flow off the edge into the grassy ground cover. Stormwater runoff will continue to flow across the ground surface as under existing conditions along existing flow paths. Stormwater runoff quantity will not be increased as part of the proposed development.

## 2.3 Hydrologic Analysis

A hydrologic analysis of the pre-development and post-development site was performed to determine the impacts of the proposed project to peak discharge rates and stormwater runoff volumes. HydroCAD Release 9.10 is a hydrology and hydraulics software using Technical Release (TR) 20 and TR-55 methodologies for the determination of stormwater runoff quantities. The HydroCAD Report for both pre- and post-development conditions for the 2-, 10-, 25- and 100-year storm events is provided in Appendix C.

The proposed Project will not substantially alter stormwater flow paths and will result in decreased peak discharge rates as a result of a reduction in the composite Curve Number (CN) under the proposed conditions analysis. The existing site is primarily agricultural (hay and corn crops) with areas of woodland, open meadow, wetlands and gravel roads. As previously presented, the CN value for the existing site is 77 and the proposed CN value is 71 for the entire site. Composite runoff curve number calculations are provided in the HydroCAD Report in Appendix C.

The hydrologic analysis assumes that in each drainage subcatchment, only the topographically highest row of panels is considered impervious due to the nature of how stormwater will continue to travel on the site beneath subsequent rows of panels. This approach is conservative, in that the panels from which the time of concentration was calculated is not the most hydrologically remote point, but results in a reduction in peak discharge rates from the site.

The HydroCAD Report, as provided in Appendix C, includes the analysis for the 2-, 10-, 25- and 100-year storm events for both existing and proposed conditions. Rainfall depths used in the analysis are consistent with those published in the 2004 Connecticut Stormwater Quality Manual for Windham County and as provided in the Table below.

**Table 2.4**

Design Rainfall Depths

<b>Storm Event</b>	<b>Rainfall Depth (inches)</b>
2-Year	3.2
10-Year	4.8
25-Year	5.5
100-Year	6.9



Table 2.5 presents the results of the pre-development stormwater runoff analysis versus the post-development stormwater runoff analysis for each design point

**Table 2.5**

Peak Discharge Rate Comparison

		<b>2-year Storm Event (cfs)</b>	<b>10-year Storm Event (cfs)</b>	<b>25-year Storm Event (cfs)</b>	<b>100-year Storm Event (cfs)</b>
DA 10	Existing	33.2	75.9	96.4	139.2
	Proposed	24.5	62.7	81.7	122.0
DA20	Existing	11.2	28.9	37.6	56.2
	Proposed	7.2	22.9	31.0	48.8
DA 30	Existing	39.3	75.8	92.5	126.2
	Proposed	21.8	51.1	65.3	95.1
DA 40	Existing	45.8	94.4	117.0	163.4
	Proposed	33.5	77.5	98.6	143.0
DA 50	Existing	11.8	22.7	27.7	37.8
	Proposed	8.3	18.9	24.0	34.7

Table 2.5 indicates that existing peak discharge rates are reduced for the 2-, 10-, 25- and 100-year storm events.

## **Section 3**

# **Regulatory Compliance**

### **3.1 Stormwater Manual Compliance**

The project has been designed to comply with the 2004 Connecticut Stormwater Quality Manual (Stormwater Manual) and the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control (SESC Guidelines). The following section describes how the project complies with the criteria outlined in each document.

The project has been designed to comply with the Stormwater Quality requirements of the Stormwater Manual for both Water Quality and Groundwater Recharge. Both requirements are based on the imperviousness of the proposed development.

#### **3.1.1 Water Quality Volume**

The required Water Quality Volume (WQV) for the proposed conditions is based on the acreage of impervious surfaces including gravel access roads, impervious roadways and impervious concrete pads. While the hydrologic analysis assumed that a portion of the solar panels in each drainage area were considered impervious in order to determine anticipated peak discharge rates, they have been excluded from WQV computations. The panels, as well as the concrete equipment pads, will not be subject to vehicular access, and therefore do not produce any pollutants to stormwater runoff.

All other impervious surfaces, specifically gravel and paved access roads, will not be curbed in order to promote a "country drainage" scenario. The lack of curb and gutter will allow stormwater runoff from the roadways to flow through the adjacent grasses. This will remove any sediment from the runoff prior to discharge to any wetland resource area. The location of the access roads, as shown on the Site Plans, indicates that impervious surfaces will be located over 100- feet from any wetland resource area, providing suitable residence time within the grass to remove sediment from runoff.

#### **3.1.2 Water Quality Flow**

The Water Quality Flow (WQF) is a quantity of stormwater runoff based on the water quality design storm, or a 1-inch rainfall depth. This flow is important when designing water quality swales or other runoff diversion features to endure the property treatment is provided. The proposed project does not include any Best Management Practice (BMPs) that requires a WQF rate for design purposes, therefore this calculation was not performed.

#### **3.1.3 Groundwater Recharge**

The required Groundwater Recharge Volume (GRV) is based on impervious ground coverage as well as the Hydrologic Soil Group of the underlying soils. The project has been designed to utilize a "country drainage" scheme which allows stormwater runoff from impervious surfaces to flow into adjacent grassed areas and allowed to recharge to groundwater as under existing conditions. The project does not include large, uninterrupted spans of impervious ground coverage. Concrete equipment pads are relatively small in comparison to the overall watershed, will not adversely impact groundwater recharge capabilities of the proposed conditions site. Of the approximately 228 acres of the parcel, impervious ground coverage will increase from 0.2% of the entire



project area to 0.5% of the entire project area. Since this increase is negligible in relation to the entire property, no further calculations to determine the volume of required groundwater recharge have been provided as part of this report.

## **3.2 Soil Erosion and Sediment Control Guidelines**

### **3.2.1 Erosion and Sedimentation Control Narrative**

Woods Hill Solar, LLC is proposing the construction, operation and maintenance of a ground-mounted solar photovoltaic (PV) facility of approximately 17.61 MW<sub>AC</sub> to be constructed off of Woods Hole Road in the Town of Pomfret, Connecticut.

The project will include selective vegetation clearing, construction of a new gravel access road and installation of solar PV modules and equipment pads. The solar modules will be erected using a driven metal post foundation system. The racks will be installed approximately 16 feet apart. Portions of the proposed PV arrays will be located 75 feet from delineated inland wetlands. The racks will run east-west and will be mounted facing south at a fixed 25 degree angle to ground surface.

Erosion and sedimentation control measures proposed as part of the project include silt fencing along the perimeter of the project and construction entrance to limit sediment tracking outside of the construction zone.

The project is proposed to be constructed sequentially in a single phase.

Project construction start: Summer 2016

Project construction end: Spring 2017

Soil erosion and sedimentation control measures shall conform to the standards outlined in the Connecticut Department of Environmental Protection (CTDEEP), "2002 Connecticut Guidelines for Soil Erosion and Sediment Control", latest revision.

### **3.2.2 Erosion and Sedimentation Control Notes**

The following notes have been included on the Site Plans and are to be followed throughout the construction duration.

1. Install all erosion control measures shown, specified and required by the Engineer prior to any construction or immediately upon request. Maintain all such control measures until final surface treatments are in place and/or until permanent vegetation is established.
2. Mark work limit line(s) prior to starting work. Do not disturb vegetation and topsoil beyond the proposed limit line. Coordinate with the Engineer for the location for the temporary stockpiling of topsoil during construction.
3. Fine grade and immediately seed all side slopes, shoulder areas, and disturbed vegetated areas. All grading to be a maximum slope of 2:1, compacted, and stabilized. Slopes greater than 3:1 to be stabilized with erosion control blanket.

4. Remove and dispose of all silt trapped at barriers in upland areas outside of buffer zones. Remove materials deposited in any temporary settling basin at the completion of the project. Restore all disturbed areas to pre-construction conditions.
5. Remove any sediment tracked on public Rights-of-Ways at the end of each day.

### **3.2.3 Construction Sequence**

The actual sequence of construction will be determined by the selected construction contractor. The following is a proposed sequence of construction for the project:

1. Flag the limits of construction necessary to facilitate the preconstruction meeting.
2. Hold preconstruction meeting. (Remember to call before you dig 1-800-922-4455).
3. Install the construction entrance.
4. Install erosion and sediment controls in accordance with the Site Plans.
5. Cut trees within defined clearing limits and remove cut wood. Chip brush and slash, stockpile chips for future use or remove off site.
6. Construct settling basins, as required.
7. Strip and stockpile all topsoil that is within the footprint of the access road and concrete equipment pads and reference stockpile management for erosion and sediment controls. (See 2002 CT guidelines for soil erosion and sediment control chapter 4, part ii on stockpile management).
8. Prepare sub-base, and concrete placement for equipment pads. Install gravel access road.
9. Install all subsurface utilities.
10. Install solar racking systems and PV modules.
11. Place topsoil where required.
12. Seed and mulch disturbed areas.
13. After site is stabilized remove temporary erosion and sediment controls (e.g. geotextile silt fences).

The construction will occur starting at one end or the center of a row with the piles or ground screws driven first, then the racking and panels will be installed on the piles and the construction will continue down each row to the end of the row.

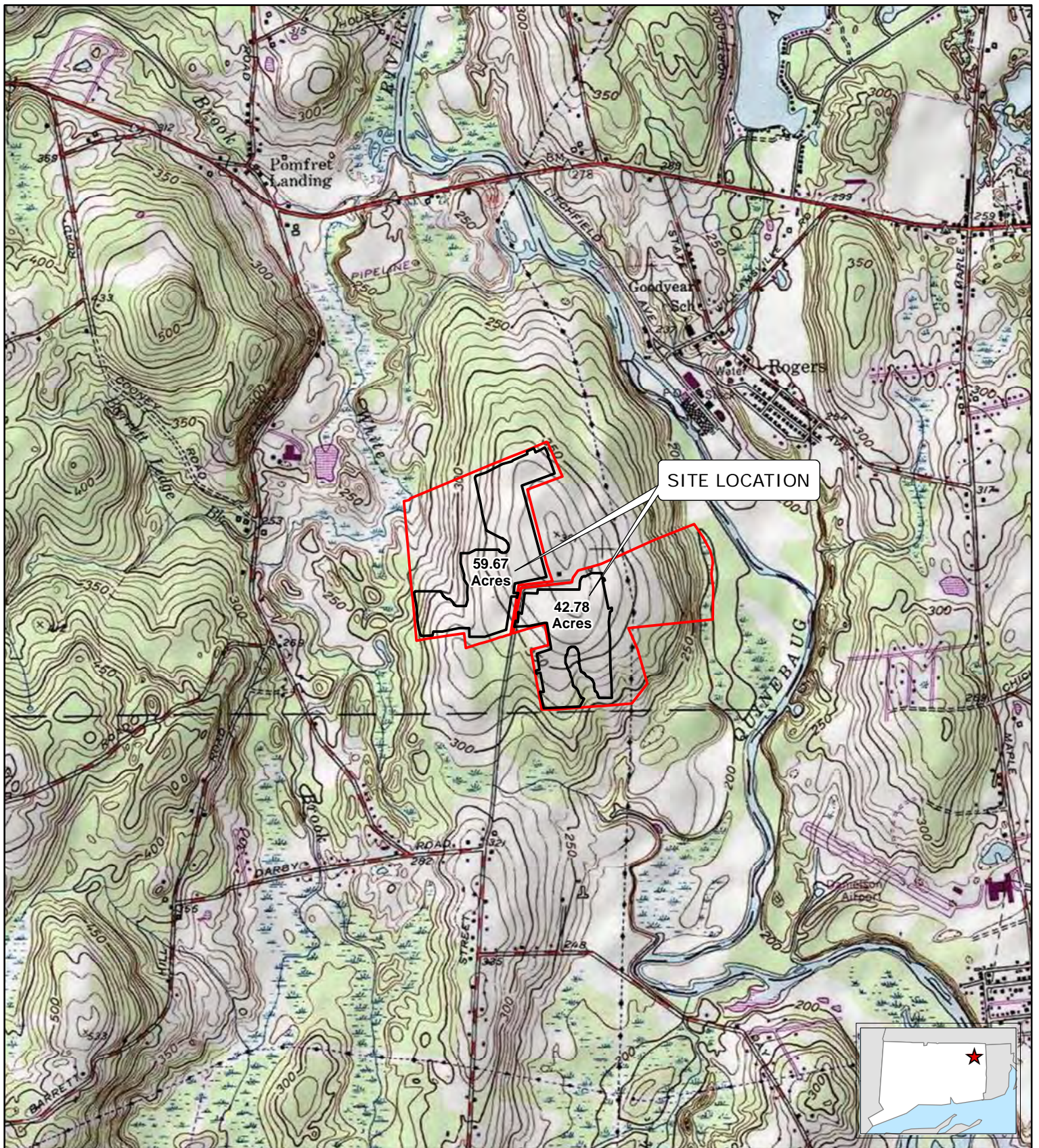
J:\R\R0298\Permitting\Pomfret CT Siting Council\Stormwater\Narrative\Stormwater\_Report\_Pomfret.docx





## **APPENDIX A:**

Figures



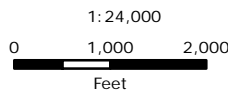


**Legend**

-  Project Area Boundary
-  Site Parcels



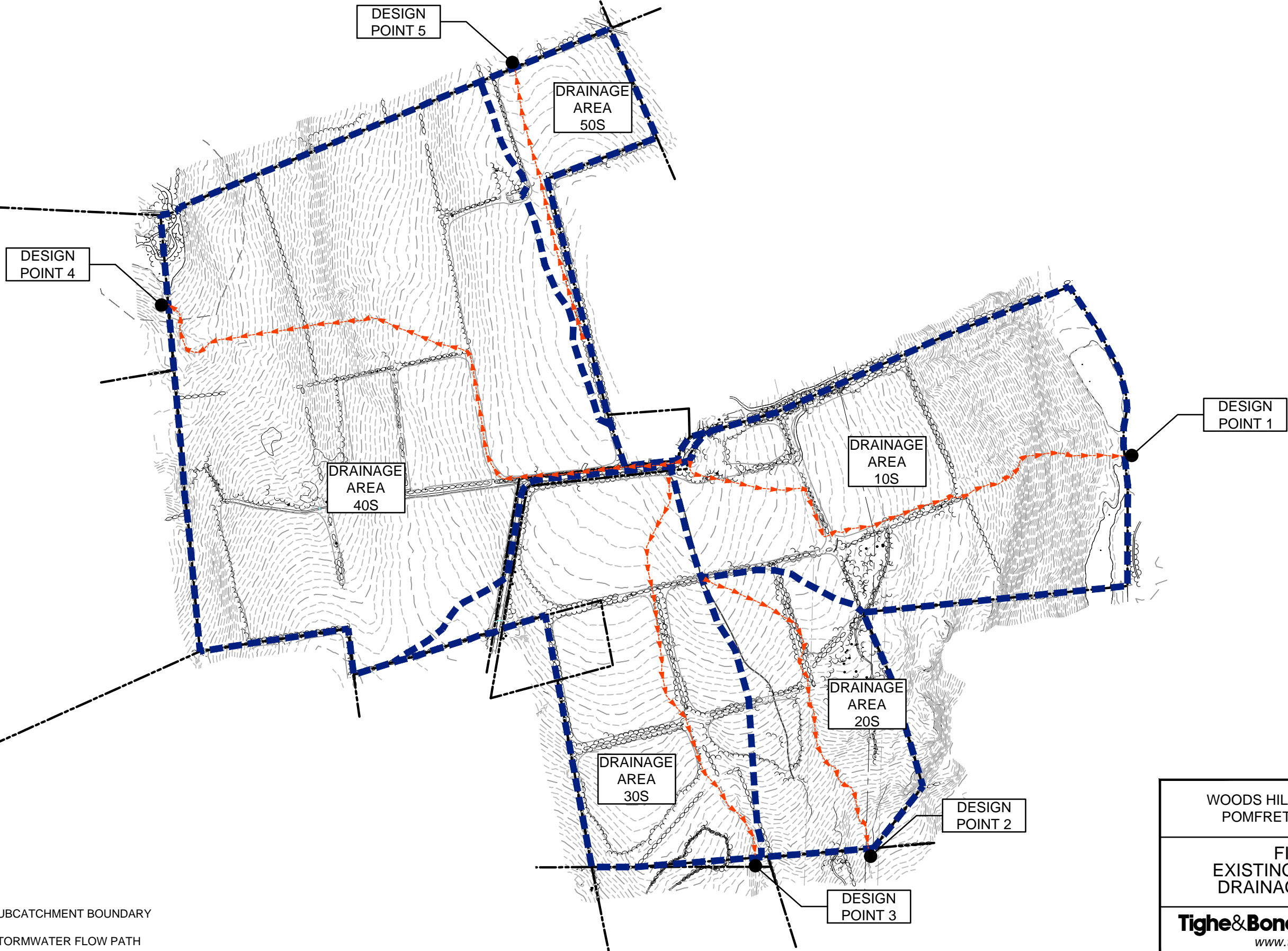
Based on USGS Topographic Map for  
 Danilson, Revised 1970.  
 Contour Interval Equals 10-feet.



**FIGURE 1**  
 Project Location Map  
 Woods Hill Solar Project  
 Pomfret, Connecticut

March 2016





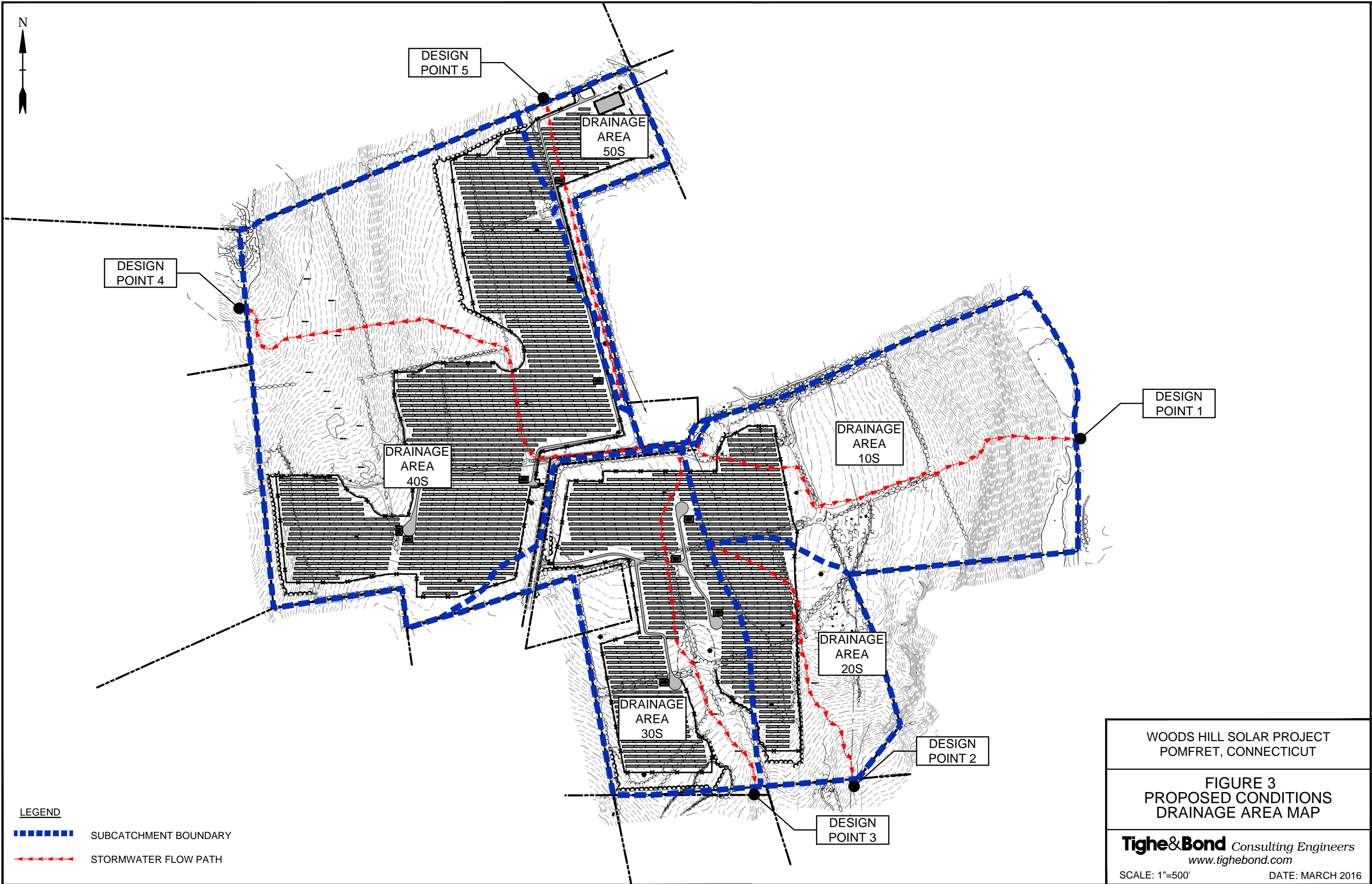
**LEGEND**  
■■■■■■■■■■ SUBCATCHMENT BOUNDARY  
- - - - - STORMWATER FLOW PATH

WOODS HILL SOLAR PROJECT  
POMFRET, CONNECTICUT

**FIGURE 2**  
EXISTING CONDITIONS  
DRAINAGE AREA MAP

**Tighe&Bond** Consulting Engineers  
www.tighebond.com

SCALE: 1"=500'      DATE: MARCH 2016



LEGEND

- ▬▬▬▬▬ SUBCATCHMENT BOUNDARY
- - - - - STORMWATER FLOW PATH

WOODS HILL SOLAR PROJECT  
POMFRET, CONNECTICUT

FIGURE 3  
PROPOSED CONDITIONS  
DRAINAGE AREA MAP

**Tighe&Bond** Consulting Engineers  
www.tighebond.com

SCALE: 1"=500'

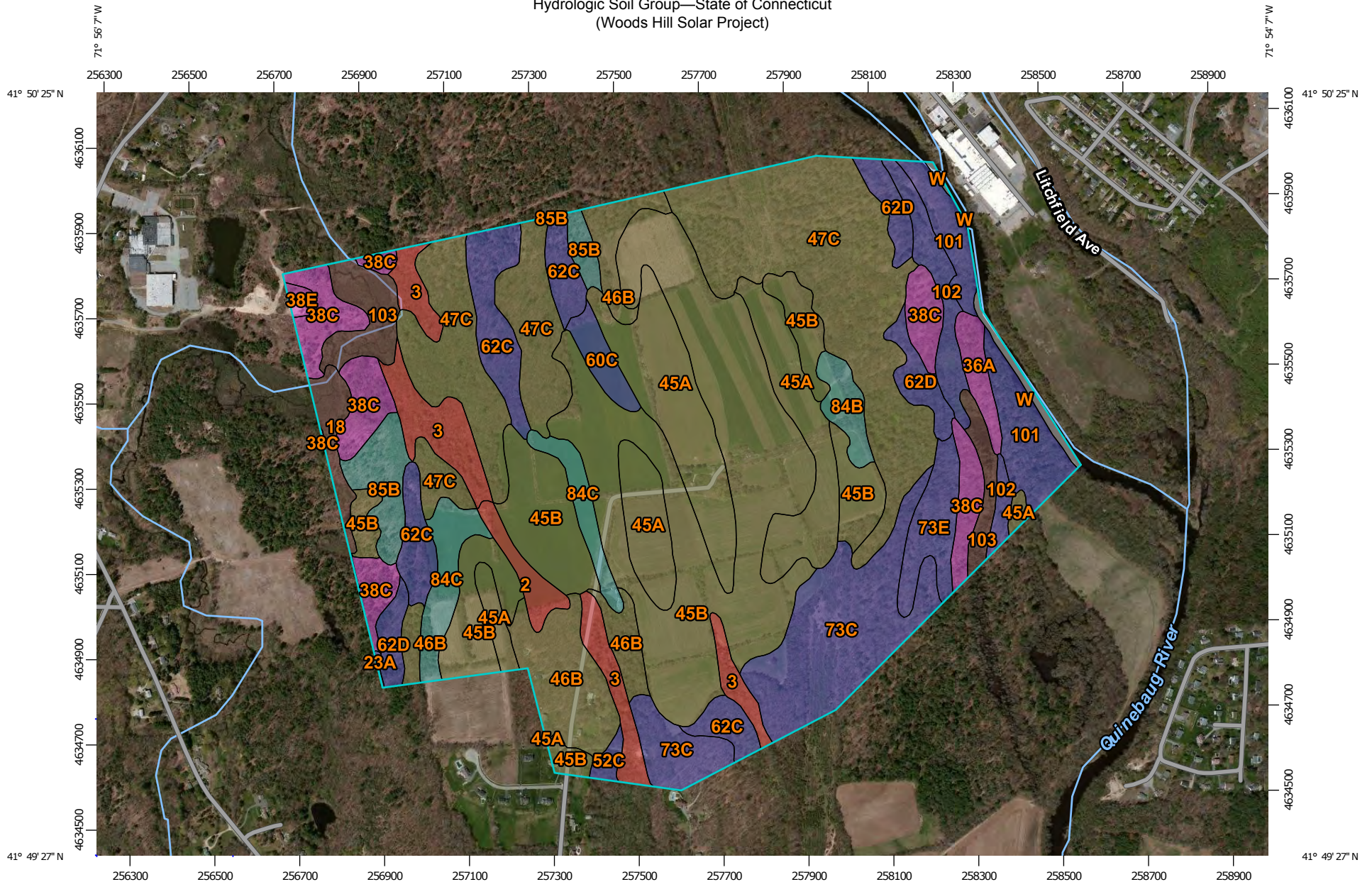
DATE: MARCH 2016



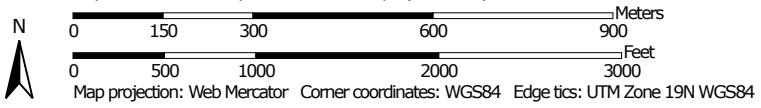
## **APPENDIX B:**

Soils Data

Hydrologic Soil Group—State of Connecticut  
(Woods Hill Solar Project)




Map Scale: 1:12,600 if printed on A landscape (11" x 8.5") sheet.





## MAP LEGEND

### Area of Interest (AOI)









 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons





 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Lines


 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Points






 A  
 A/D  
 B  
 B/D

 C  
 C/D  
 D  
 Not rated or not available


#### Water Features

 Streams and Canals

#### Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

#### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut  
 Survey Area Data: Version 14, Sep 22, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 30, 2011—May 1, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — State of Connecticut (CT600)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
2	Ridgebury fine sandy loam	D	3.9	0.8%
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	D	19.3	4.1%
18	Catden and Freetown soils, 0 to 2 percent slopes	B/D	4.6	1.0%
23A	Sudbury sandy loam, 0 to 5 percent slopes	B	0.2	0.0%
36A	Windsor loamy sand, 0 to 3 percent slopes	A	3.9	0.8%
38C	Hinckley loamy sand, 3 to 15 percent slopes	A	22.9	4.9%
38E	Hinckley loamy sand, 15 to 45 percent slopes	A	1.0	0.2%
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes	C/D	48.7	10.4%
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	C/D	110.2	23.5%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	C/D	24.9	5.3%
47C	Woodbridge fine sandy loam, 3 to 15 percent slopes, extremely stony	C/D	84.7	18.0%
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	B	1.3	0.3%
60C	Canton and Charlton soils, 8 to 15 percent slopes	B	3.9	0.8%
62C	Canton and Charlton soils, 3 to 15 percent slopes, extremely stony	B	21.2	4.5%
62D	Canton and Charlton soils, 15 to 35 percent slopes, extremely stony	B	10.6	2.3%



<b>Hydrologic Soil Group— Summary by Map Unit — State of Connecticut (CT600)</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky	B	35.8	7.6%
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	B	8.1	1.7%
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	C	4.6	1.0%
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	C	12.1	2.6%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	C	9.5	2.0%
101	Occum fine sandy loam	B	15.0	3.2%
102	Pootatuck fine sandy loam	B	9.2	2.0%
103	Rippowam fine sandy loam	B/D	11.3	2.4%
W	Water		2.1	0.4%
<b>Totals for Area of Interest</b>			<b>469.2</b>	<b>100.0%</b>

## Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Higher



Project: Woods Hill Road Solar Project  
 Location: Woods Hill Road, Pomfret, CT  
 Client: SunEast Power & RES America Developments

Boring No. B-1  
 Page 1 of 1  
 File No. R-02984  
 Checked by: Dave Brogan

Drilling Co.: Geosearch, Inc.

Foreman: Kenny Bylund  
 T&B Rep.: Michael Trovato  
 Date Start: 12/16/15 End: 12/16/15  
 Location: See Exploration Location Plan  
 GS. Elev. 381± Datum: NAVD88

	Casing	Sampler
Type	HSA	Split Spoon
I.D./O.D.	4.25"/8.25"	1-3/8"/2"
Hammer Wt.		140#
Hammer Fall		30"
Other		Auto Hammer

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
12/16/2015		15.5'	HSA	

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S-1/24	0-2	3 - 4	12" of Topsoil over medium dense, brown, fine to coarse SAND, some Silt, trace Gravel	1' Topsoil		No Well Installed
				6 - 8				
		S-2/19	2-4	4 - 6	Medium dense, brown, fine to coarse SAND, some Silt, trace Gravel			
				8 - 10				
10		S-3/20	4-6	4 - 9	Medium dense, light brown, fine to coarse SAND, some Silt, trace Gravel	GLACIAL TILL		
				8 - 8				
		S-4/18	10-12	8 - 12	Medium dense, light brown and gray, fine to coarse SAND, some Gravel, little Silt			
				15 - 18				
15		S-5/17	15-17	26 - 27	Very dense, gray, fine to coarse SAND, some Gravel, little Silt			
				29 - 40				
20		S-6/23	20-22	42 - 90	Very dense, gray, fine to coarse SAND, some Gravel, little Silt			
				62 - 51				
25					Bottom of exploration at 22'			
30								

Notes:

Proportions Used	
TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency		
VERY LOOSE	0-4	VERY SOFT
LOOSE	4-10	SOFT
MEDIUM DENSE	10-30	MEDIUM
DENSE	30-50	STIFF
VERY DENSE	>50	VERY STIFF
		HARD
		<2
		2-4
		4-8
		8-15
		15-30
		>30

Project: Woods Hill Road Solar Project  
 Location: Woods Hill Road, Pomfret, CT  
 Client: SunEast Power & RES America Developments

Boring No. B-2  
 Page 1 of 1  
 File No. R-02984  
 Checked by: Dave Brogan

Drilling Co.: Geosearch, Inc.

Foreman: Kenny Bylund  
 T&B Rep.: Michael Trovato  
 Date Start: 12/16/15 End: 12/16/15  
 Location: See Exploration Location Plan  
 GS. Elev. 367± Datum: NAVD88

Type: HSA  
 I.D./O.D. 4.25"/6.25"  
 Hammer Wt. 140#  
 Hammer Fall 30"  
 Other Auto Hammer

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
12/16/2015		16'	HSA	

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S-1/22	0-2	3 - 3	10" of Topsoil over medium dense, brown, fine to medium SAND and SILT, trace Gravel	0.8' Topsoil		No Well Installed
				4 - 11				
		S-2/24	2-4	15 - 13	Medium dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
10				12 - 11				
		S-3/20	4-6	6 - 9	Medium dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				11 - 16				
15								
		S-4/19	10-12	10 - 13	Dense, gray, fine to coarse SAND, some Gravel, little Silt	GLACIAL TILL		
				19 - 27				
20								
		S-5/2	15-17	25 - 34	Very dense, gray, fine to coarse SAND, some Gravel, little Silt			
				35 - 42				
25								
		S-6/19	20-22	13 - 28	Very dense, gray, fine to coarse SAND, some Gravel, little Silt			
				28 - 20				
30					Bottom of exploration at 22'			

Notes:

Proportions Used	
TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency		
VERY LOOSE	0-4	VERY SOFT
LOOSE	4-10	SOFT
MEDIUM DENSE	10-30	MEDIUM
DENSE	30-50	STIFF
VERY DENSE	>50	VERY STIFF
		HARD
		<2
		2-4
		4-8
		8-15
		15-30
		>30



Project: Woods Hill Road Solar Project  
 Location: Woods Hill Road, Pomfret, CT  
 Client: SunEast Power & RES America Developments

Boring No. B-3  
 Page 1 of 1  
 File No. R-02984  
 Checked by: Dave Brogan

Drilling Co.: Geosearch, Inc.

Foreman: Kenny Bylund  
 T&B Rep.: Michael Trovato  
 Date Start: 12/16/15 End: 12/16/15  
 Location: See Exploration Location Plan  
 GS. Elev. 364± Datum: NAVD88

Type: HSA  
 I.D./O.D. 4.25"/6.25"  
 Hammer Wt. 140#  
 Hammer Fall 30"  
 Other Auto Hammer

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
12/16/2015			Not Encountered	

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S-1/17	0-2	2 - 2	12" of Topsoil over loose, brown, fine to coarse SAND, some Silt, little Gravel	1' Topsoil		No Well Installed
				4 - 5				
		S-2/17	2-4	11 - 20	Dense, gray-brown, fine to coarse SAND, some Silt, little Gravel			
10				22 - 19		GLACIAL TILL		
		S-3/19	4-6	11 - 17	Medium dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				12 - 10				
15						GLACIAL TILL		
		S-4/20	10-12	4 - 5	Medium dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				8 - 11				
20						GLACIAL TILL		
		S-5/24	15-17	13 - 21	Dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				19 - 18				
25						GLACIAL TILL		
		S-6/23	20-22	7 - 16	Dense, gray, fine to coarse SAND, some Gravel, little Silt.			
				17 - 16				
30					Bottom of exploration at 22'			

Notes:

Proportions Used	
TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency		
VERY LOOSE	0-4	VERY SOFT <2
LOOSE	4-10	SOFT 2-4
MEDIUM DENSE	10-30	MEDIUM 4-8
DENSE	30-50	STIFF 8-15
VERY DENSE	>50	VERY STIFF 15-30
		HARD >30

Project: Woods Hill Road Solar Project  
 Location: Woods Hill Road, Pomfret, CT  
 Client: SunEast Power & RES America Developments

Boring No. B-4  
 Page 1 of 1  
 File No. R-02984  
 Checked by: Dave Brogan

Drilling Co.: Geosearch, Inc.

Foreman: Kenny Bylund  
 T&B Rep.: Michael Trovato  
 Date Start: 12/16/15 End: 12/16/15  
 Location: See Exploration Location Plan  
 GS. Elev. 321± Datum: NAVD88

Type: HSA  
 I.D./O.D. 4.25"/6.25"  
 Hammer Wt. 140#  
 Hammer Fall 30"  
 Other Auto Hammer

Casing HSA  
 Sampler Split Spoon  
1-3/8"/2"  
140#  
30"  
Auto Hammer

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
12/16/2015			Not Encountered	

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S-1/20	0-2	2 - 3	12" of Topsoil over medium dense, brown, fine to coarse SAND, some Silt, little Gravel	1' Topsoil		No Well Installed
				3 - 10				
		S-2/18	2-4	16 - 24				
10				18 - 20	Medium dense, gray-brown, fine to coarse SAND and SILT, little Gravel	GLACIAL TILL	1	
		S-3/17	4-6	15 - 9				
				11 - 7				
15					Dense, gray-brown, fine to coarse SAND and SILT, little Gravel			
		S-4/24	10-12	12 - 19				
				26 - 22				
20					Very dense, gray-brown, fine to coarse SAND and SILT, little Gravel			
		S-5/2	15-17	120/6"				
25					Bottom of exploration at 15.5' due to auger refusal			
30								

Notes:  
 1) Offset boring completed 10' east of original boring location - refusal encountered at 16' in offset boring.

Proportions Used	
TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency		
VERY LOOSE	0-4	VERY SOFT <2
LOOSE	4-10	SOFT 2-4
MEDIUM DENSE	10-30	MEDIUM 4-8
DENSE	30-50	STIFF 8-15
VERY DENSE	>50	VERY STIFF 15-30
		HARD >30



Project: Woods Hill Road Solar Project  
 Location: Woods Hill Road, Pomfret, CT  
 Client: SunEast Power & RES America Developments

Boring No. B-5  
 Page 1 of 1  
 File No. R-02984  
 Checked by: Dave Brogan

Drilling Co.: Geosearch, Inc.

Foreman: Kenny Bylund  
 T&B Rep.: Michael Trovato  
 Date Start: 12/17/15 End: 12/17/15  
 Location: See Exploration Location Plan  
 GS. Elev. 364± Datum: NAVD88

Type: HSA  
 I.D./O.D. 4.25"/6.25"  
 Hammer Wt. 140#  
 Hammer Fall 30"  
 Other Auto Hammer

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
12/17/2015		12'	HSA	

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S-1/5	0-2	7 - 9	12" of Topsoil over medium dense, brown, fine to coarse SAND and SILT, little Gravel	1' Topsoil		No Well Installed
				16 - 11				
		S-2/24	2-4	8 - 10	Medium dense, light brown, fine to coarse SAND, some Silt, some Gravel			
				9 - 11				
	S-3/22	4-6	6 - 5	Medium dense, gray-brown, fine to coarse SAND, some Gravel, little Silt	GLACIAL TILL			
			8 - 32					
10		S-4/16	10-12	11 - 8		Medium dense, light brown, fine to coarse SAND, some Gravel, little Silt		
				8 - 11				
15		S-5/20	15-17	15 - 27	Very dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				50 - 43				
20		S-6/2	20-22	56 - 120/6"	Very dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
25					Bottom of exploration at 21'			
30								

Notes:

Proportions Used	
TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency		
VERY LOOSE	0-4	VERY SOFT
LOOSE	4-10	SOFT
MEDIUM DENSE	10-30	MEDIUM
DENSE	30-50	STIFF
VERY DENSE	>50	VERY STIFF
		HARD
		<2
		2-4
		4-8
		8-15
		15-30
		>30

Project: Woods Hill Road Solar Project  
 Location: Woods Hill Road, Pomfret, CT  
 Client: SunEast Power & RES America Developments

Boring No. B-6  
 Page 1 of 1  
 File No. R-02984  
 Checked by: Dave Brogan

Drilling Co.: Geosearch, Inc.

Foreman: Kenny Bylund  
 T&B Rep.: Michael Trovato  
 Date Start: 12/17/15 End: 12/17/15  
 Location: See Exploration Location Plan  
 GS. Elev. 348± Datum: NAVD88

Type: HSA  
 I.D./O.D. 4.25"/6.25"  
 Hammer Wt. 140#  
 Hammer Fall 30"  
 Other Auto Hammer

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
12/17/2015		18.5'	HSA	

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S-1/7	0-2	3 - 3	12" of Topsoil over medium dense, brown, SILT and fine to medium SAND, little Gravel	1' Topsoil		No Well Installed
				8 - 9				
		S-2/24	2-4	9 - 6	Medium dense, light brown, fine to coarse SAND, some Silt, some Gravel			
10				8 - 7		GLACIAL TILL		
		S-3/22	4-6	7 - 8	Medium dense, light brown, fine to coarse SAND, some Silt, some Gravel			
				9 - 10				
15						GLACIAL TILL		
		S-4/22	10-12	8 - 34	Very dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				65 - 64				
20						GLACIAL TILL		
		S-5/19	15-17	12 - 32	Very dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				54 - 61				
25						GLACIAL TILL		
		S-6/24	20-22	33 - 51	Very dense, gray, fine to coarse SAND, some Gravel, little Silt			
				59 - 37				
30					Bottom of exploration at 22'			

Notes:

Proportions Used	
TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency			
VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30



Project: Woods Hill Road Solar Project  
 Location: Woods Hill Road, Pomfret, CT  
 Client: SunEast Power & RES America Developments

Boring No. B-7  
 Page 1 of 1  
 File No. R-02984  
 Checked by: Dave Brogan

Drilling Co.: Geosearch, Inc.

Foreman: Kenny Bylund  
 T&B Rep.: Michael Trovato  
 Date Start: 12/17/15 End: 12/17/15  
 Location: See Exploration Location Plan  
 GS. Elev. 339± Datum: NAVD88

Type: HSA  
 I.D./O.D. 4.25"/6.25"  
 Hammer Wt. 140#  
 Hammer Fall 30"  
 Other Auto Hammer

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
12/17/2015		15.5'	HSA	

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S-1/23	0-2	3 - 2	12" of Topsoil over medium dense, brown, fine to coarse SAND, some Silt, little Gravel	1' Topsoil		No Well Installed
				5 - 9				
		S-2/24	2-4	9 - 11	Medium dense, red-brown, fine to coarse SAND, some Silt, little Gravel	GLACIAL TILL		
				17 - 10				
	S-3/2	4-6	10 - 13	Medium dense, red-brown, fine to coarse SAND, some Silt, little Gravel				
			10 - 14					
10								
		S-4/2	10-12	9 - 18	Dense, light brown, fine to coarse SAND, some Silt, some Gravel			
				25 - 20				
15								
		S-5/2	15-17	5 - 120/6"	Very dense, gray-brown, fine to coarse SAND, some Gravel, little Silt		1	
20					Bottom of exploration at 15.8' due to auger refusal			
25								
30								

Notes:  
 1) Offset boring completed 10' east of original boring location - refusal encountered at 16.5' in offset boring.

Proportions Used

TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency

VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30

Project: Woods Hill Road Solar Project  
 Location: Woods Hill Road, Pomfret, CT  
 Client: SunEast Power & RES America Developments

Boring No. B-8  
 Page 1 of 1  
 File No. R-02984  
 Checked by: Dave Brogan

Drilling Co.: Geosearch, Inc.

Foreman: Kenny Bylund  
 T&B Rep.: Michael Trovato  
 Date Start: 12/17/15 End: 12/17/15  
 Location: See Exploration Location Plan  
 GS. Elev. 369± Datum: NAVD88

Type: HSA  
 I.D./O.D. 4.25"/6.25"  
 Hammer Wt. 140#  
 Hammer Fall 30"  
 Other Auto Hammer

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
12/17/2015		15.5'	HSA	

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S-1/24	0-2	2 - 3	12" of Topsoil over medium dense brown, fine to coarse SAND, some Silt, little Gravel	1' Topsoil		No Well Installed
				6 - 10				
		S-2/24	2-4	7 - 13	Dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				23 - 29				
10		S-3/17	4-6	9 - 11	Medium dense, gray-brown, fine to coarse SAND, some Silt, some Gravel	GLACIAL TILL		
				11 - 14				
		S-4/22	10-12	8 - 24	Dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				23 - 25				
15		S-5/23	15-17	16 - 17	Dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				20 - 24				
20		S-6/24	20-22	17 - 24	Very dense, gray-brown, fine to coarse SAND, some Gravel, little Silt			
				27 - 31				
25					Bottom of exploration at 22'			
30								

Notes:

Proportions Used	
TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency		
VERY LOOSE	0-4	VERY SOFT <2
LOOSE	4-10	SOFT 2-4
MEDIUM DENSE	10-30	MEDIUM 4-8
DENSE	30-50	STIFF 8-15
VERY DENSE	>50	VERY STIFF 15-30
		HARD >30



Project/Site Information

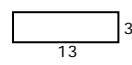
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-1**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/8/2015  
 Operator Roger Jarry Ground Elev. 384±  
 Weather 40 Degrees - Cloudy Make John Deere Model 60G Time Started 8:15  
 Capacity Unknown Reach 20'5" ft. Time Completed 9:05

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
1'				E	5%/A	
2'	Brown, fine to coarse SAND, some Silt, some fine to coarse Gravel, trace Cobbles	S-1		E	5%/A	
3'				E	5%/A	
4'				E	5-10%/A	
5'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt	S-2		E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'				E	5-10%/A	
9'	Dark gray, fine to coarse SAND, little Silt, little fine to coarse Gravel	S-3		E	5%/A-B	
10'				E	5%/A-B	
11'	Bottom of exploration at 10.5' due to refusal			E	5%/A-B	
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>15</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

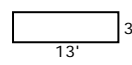
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-2**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/8/2015  
 Operator Roger Jarry Ground Elev. 375±  
 Weather 40 Degrees - Cloudy Make John Deere Model 60G Time Started 9:10  
 Capacity Unknown Reach 20'5" ft. Time Completed 10:00

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
1'	10" Brown, fine to medium SAND and SILT, trace fine to coarse Gravel	S-1		E	5%/A	
2'	2.5'			E	5%/A	
3'	Gray-brown, fine to coarse SAND, some Silt, some fine to coarse Gravel, trace Cobbles	S-2		E	5%/A	
4'				E	5%/A	
5'				E	5%/A	
6'				E	5-10%/A	
7'	6.5' Dark gray-brown, SILT and fine to coarse SAND, some fine to coarse Gravel, trace Cobbles	S-3		E	5-10%/A	
8'				E	5-10%/A	
9'				E	5-10%/A	
10'				E	5-10%/A	
11'				E	5-10%/A	
12'	(GLACIAL TILL) Bottom of exploration at 11.3' due to refusal			E	5-10%/A	
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>16</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                      35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			



Project/Site Information

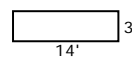
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-3**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/8/2015  
 Weather 40 Degrees - Cloudy Operator Roger Jarry Ground Elev. 363±  
 Make John Deere Model 60G Time Started 10:05  
 Capacity Unknown Reach 20'5" ft. Time Completed 10:55

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
1'				E	5%/A	
2'	Brown, fine to medium SAND and SILT, trace fine to coarse Gravel	S-1		E	5%/A	
3'				E	5-10%/A	
4'				E	5-10%/A	
5'	Gray-brown, fine to coarse SAND, some Silt, some fine to coarse Gravel	S-2		E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'				E	5-10%/A	
9'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt	S-3		E	5-10%/A	
10'				E	5-10%/A	
11'				E	5-10%/A	
12'	(GLACIAL TILL) Bottom of exploration at 12'					
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>18</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	<b>Excavation Effort</b> E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

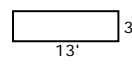
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-4**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/8/2015  
 Operator Roger Jarry Ground Elev. 353±  
 Weather 40 Degrees - Cloudy Make John Deere Model 60G Time Started 11:00  
 Capacity Unknown Reach 20'5" ft. Time Completed 11:35

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
1'	Brown, fine to medium SAND and SILT, trace fine to coarse Gravel	S-1		E	5-10%/A	
2'				E	5-10%/A	
3'				E	5-10%/A	
4'				E	5-10%/A	
4.5'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobbles  (GLACIAL TILL)	S-2		E	5-10%/A	
5'				E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'				E	5-10%/A	
9'				E	5-10%/A	
10'				E	5-10%/A	
11'			E	5-10%/A		
11.2'	Bottom of exploration at 11.2' due to refusal					
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>16</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                      35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	<b>Excavation Effort</b> E-----Easy M-----Moderate D-----Difficult			



Project/Site Information

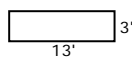
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-5**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/8/2015  
 Operator Roger Jarry Ground Elev. 368±  
 Weather 40 Degrees - Cloudy Make John Deere Model 60G Time Started 11:50  
 Capacity Unknown Reach 20'5" ft. Time Completed 12:25

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
1'				E	5%/A	
2'	Brown, fine to coarse SAND and SILT, little fine to coarse Gravel	S-1		E	5%/A	
3'				E	5%/A	
4'				E	5-10%/A-B	
5'	Gray-brown, fine to coarse SAND, some Silt, some fine to coarse Gravel	S-2		E	5-10%/A-B	
6'				E	5-10%/A-B	
7'				E	5-10%/A-B	
8'	Gray, fine to coarse SAND, some fine to coarse Gravel, little Silt	S-3		E	5-10%/A-B	
9'	(GLACIAL TILL)			E	5-10%/A-B	
10'	Bottom of exploration at 9.5' due to refusal					
11'						
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>16</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	<b>Excavation Effort</b> E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

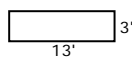
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-6**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/8/2015  
 Operator Roger Jarry Ground Elev. 321±  
 Weather 40 Degrees - Cloudy Make John Deere Model 60G Time Started 12:40  
 Capacity Unknown Reach 20'5" ft. Time Completed 13:25

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0'	Topsoil			E	5%/A	
1'				E	5%/A	
2'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5%/A	
3'				E	5%/A	
4'				E	5-10%/A	
5'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt	S-2		E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'				E	5-10%/A	
9'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt	S-3		E	5-10%/A	
10'	(GLACIAL TILL)			E	5-10%/A	
11'	Bottom of exploration at 10.5' due to refusal					
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>15</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                      35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	<b>Excavation Effort</b> E-----Easy M-----Moderate D-----Difficult			



Project/Site Information

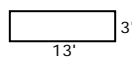
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-7**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/8/2015  
 Operator Roger Jarry Ground Elev. 335±  
 Weather 40 Degrees - Cloudy Make John Deere Model 60G Time Started 13:35  
 Capacity Unknown Reach 20'5" ft. Time Completed 14:10

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/ Class	Note No.
0	Topsoil			E	5%/A	
1'	Brown, fine to coarse SAND and SILT, trace fine to coarse Gravel	S-1		E	5%/A	
2'				E	5%/A	
3'				E	5%/A	
4'				E	5%/A	
5'				E	5%/A	
6'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobbles  (GLACIAL TILL)	S-2		E	10-15%/A-B	
7'				E	10-15%/A-B	
8'				E	10-15%/A-B	
9'				E	10-15%/A-B	
10'				E	10-15%/A-B	
11'				E	10-15%/A-B	
12'	Bottom of exploration at 11.5' due to refusal					
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>15</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

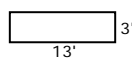
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-8**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/8/2015  
 Operator Roger Jarry Ground Elev. 323±  
 Weather 40 Degrees - Cloudy Make John Deere Model 60G Time Started 14:20  
 Capacity Unknown Reach 20'5" ft. Time Completed 15:00

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/ Class	Note No.
0	Topsoil			E	5%/A	
1'	8" Topsoil			E	5%/A	
2'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5%/A	
3'				E	5%/A	
4'				E	5%/A	
4'				E	5%/A	
5'	Gray-brown, fine to coarse SAND and SILT, little fine to coarse Gravel, trace Cobbles	S-2		E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'				E	5-10%/A	
9'				E	5-10%/A	
10'				E	5-10%/A	
11'				E	5-10%/A	
11'	(GLACIAL TILL)					
11'	Bottom of exploration at 11' due to refusal					
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>16</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                      35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	<b>Excavation Effort</b> E-----Easy M-----Moderate D-----Difficult			



Project/Site Information

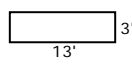
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-9**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/8/2015  
 Operator Roger Jarry Ground Elev. 339±  
 Weather 40 Degrees - Cloudy Make John Deere Model 60G Time Started 15:10  
 Capacity Unknown Reach 20'5" ft. Time Completed 16:00

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/ Class	Note No.
0	Topsoil			E	5%/A	
1'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5%/A	
2'				E	5%/A	
3'				E	5%/A	
4'				E	5-10%/A	
4.5'	Dark gray, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobbles	S-2		E	5-10%/A	
5'				E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'				E	5-10%/A	
9'				E	5-10%/A	
10'			(GLACIAL TILL)		E	5-10%/A
11'	Bottom of exploration at 10.5' due to refusal					
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>15</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

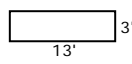
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-10**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/9/2015  
 Operator Roger Jarry Ground Elev. 361±  
 Weather 43 Degrees - Sunny Make John Deere Model 60G Time Started 14:50  
 Capacity Unknown Reach 20'5" ft. Time Completed 15:50

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0'	Topsoil			E	5%/A	
1'				E	5%/A	
2'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5%/A	
3'				E	5%/A	
4'				E	5-10%/A	
5'	Gray, fine to coarse SAND and SILT, trace fine to coarse Gravel, trace Cobbles	S-2		E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'				E	5-10%/A	
9'	Light brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobbles	S-3		E	5-10%/A	
10'				E	5-10%/A	
11'	(GLACIAL TILL) Bottom of exploration at 11' due to refusal					
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>15</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	<b>Excavation Effort</b> E-----Easy M-----Moderate D-----Difficult			



Project/Site Information

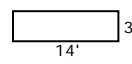
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-11**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/9/2015  
 Operator Roger Jarry Ground Elev. 379±  
 Weather 32 Degrees - Sunny Make Deere Model 60G Time Started 8:15  
 Capacity Unknown Reach 20'5" ft. Time Completed 8:50

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
1'				E	5%/A	
2'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5%/A	
3'				E	5%/A	
3.5'				E	5%/A	
4'				E	5%/A	
5'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt	S-2		E	5%/A	
6'				E	5%/A	
7'				E	5%/A	
8'				E	5%/A	
8'				E	5-10%/A	1
9'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobbles	S-3		E	5-10%/A	
10'				E	5-10%/A	
11'	(GLACIAL TILL)			E	5-10%/A	
11.2'	Bottom of exploration at 11.2' due to refusal					
12'						
13'						
14'						
15'						
16'						

**Notes:**  
 1) Groundwater seeping through test pit sidewal at depth of 9'

Test Pit Plan  Volume = <u>15</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	<b>Proportions Used</b> TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	<b>Abbreviations</b> F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	<b>GROUNDWATER</b> ( X ) Encountered ( ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Groundwater 0.25      9'
	<b>Excavation Effort</b> E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

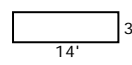
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-12**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/9/2015  
 Operator Roger Jarry Ground Elev. 373±  
 Weather 35 Degrees - Sunny Make Deere Model 60G Time Started 9:00  
 Capacity Unknown Reach 20'5" ft. Time Completed 9:45

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
10"				E	5%/A	
1'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5%/A	
2'				E	5%/A	
3'				E	5%/A	
4'				E	5%/A	
4'	Light brown, SILT and fine to medium SAND, trace fine Gravel	S-2		E	5-10%/A	
5'				E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt (GLACIAL TILL)	S-3		E	10-15%/A	
9'				E	10-15%/A	
10'				E	10-15%/A	
11'				E	10-15%/A	
11.5'	Bottom of exploration at 11.5' due to refusal					
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>17</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                      35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

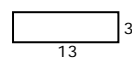
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-13**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/9/2015  
 Operator Roger Jarry Ground Elev. 356±  
 Weather 40 Degrees - Sunny Make Deere Model 60G Time Started 9:55  
 Capacity Unknown Reach 20'5" ft. Time Completed 10:35

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
1'	8"			E	5-10%/A	
2'	Brown SILT and fine to medium SAND, little fine to coarse Gravel	S-1		E	5-10%/A	
3'	3.5'			E	5-10%/A	
4'	Light brown, fine to coarse SAND, some Silt, some fine to coarse Gravel, trace Cobbles	S-2		E	5-10%/A	
5'				E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'	7.5'	S-3		E	5-10%/A	
9'				E	5-10%/A	
10'				E	5-10%/A	
11'				E	5-10%/A	
12'	(GLACIAL TILL) Bottom of exploration at 12'					
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>16</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			



Project/Site Information

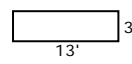
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-14**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/9/2015  
 Operator Roger Jarry Ground Elev. 328±  
 Weather 42 Degrees - Sunny Make Deere Model 60G Time Started 10:45  
 Capacity Unknown Reach 20'5" ft. Time Completed 11:30

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
1'				E	5%/A	
2'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5%/A	
3'				E	5-10%/A	
4'				E	5-10%/A	
5'	Light brown SILT and fine to coarse SAND, little fine to coarse Gravel	S-2		E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'	(GLACIAL TILL)			E	5-10%/A	
9'	Bottom of exploration at 8.8' due to refusal					
10'						
11'						
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>16</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	<b>Excavation Effort</b> E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

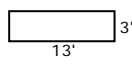
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-15**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/9/2015  
 Operator Roger Jarry Ground Elev. 349±  
 Weather 43 Degrees - Sunny Make Deere Model 60G Time Started 11:35  
 Capacity Unknown Reach 20'5" ft. Time Completed 12:20

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/ Class	Note No.		
0	Topsoil			E	5%/A			
1'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5-10%/A			
2'				E	5-10%/A			
3'				E	5-10%/A			
4'				E	5-10%/A			
5'				E	5-10%/A			
6'				E	5-10%/A			
7'				E	5-10%/A			
8'			Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobbles	S-2		E	5-10%/A	
9'						E	5-10%/A	
10'						E	5-10%/A	
11'		E			5-10%/A			
11.2'	(GLACIAL TILL)			E	5-10%/A			
12'	Bottom of exploration at 11.2' due to refusal							
13'								
14'								
15'								
16'								

**Notes:**

Test Pit Plan  Volume = <u>16</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

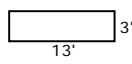
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-16**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/9/2015  
 Operator Roger Jarry Ground Elev. 374±  
 Weather 43 Degrees - Sunny Make Deere Model 60G Time Started 12:25  
 Capacity Unknown Reach 20'5" ft. Time Completed 13:15

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/ Class	Note No.
0	Topsoil			E	5%/A	
1'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5%/A	
2'				E	5%/A	
3'				E	5%/A	
4'				E	5%/A	
5'				E	5%/A	
6'	Gray-brown, fine to coarse SAND, some Silt, some fine to coarse Gravel, trace Cobbles  (GLACIAL TILL)	S-2		E	5-10%/A	
7'				E	5-10%/A	
8'				E	5-10%/A	
9'				E	5-10%/A	
10'				E	5-10%/A	
11'				E	5-10%/A	
12'	Bottom of exploration at 11.2' due to refusal					
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>15</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                      35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			



Project/Site Information

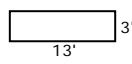
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-17**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/9/2015  
 Operator Roger Jarry Ground Elev. 323±  
 Weather 42 Degrees - Sunny Make Deere Model 60G Time Started 13:20  
 Capacity Unknown Reach 20'5" ft. Time Completed 14:00

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/ Class	Note No.
0	Topsoil			E	5%/A	
1'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5%/A	
2'				E	5%/A	
3'				E	5%/A	
4'				E	5%/A	
5'	Light brown, fine to coarse SAND, some Silt, some fine to coarse Gravel, trace Cobbles  (GLACIAL TILL)	S-2		E	5-10%/A	
6'				E	5-10%/A	
7'				E	5-10%/A	
8'				E	5-10%/A	
9'				E	5-10%/A	
10'				E	5-10%/A	
11'	Bottom of exploration at 9.8' due to refusal					
12'						
13'						
14'						
15'						
16'						

**Notes:**

Test Pit Plan  Volume = <u>14</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			

Project/Site Information

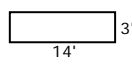
**Woods Hill Road Solar Project**  
**Woods Hill Road**  
**Pomfret, CT**

Test Pit No. **TP-18**  
 Page No. 1 of 1  
 File No. R-02984  
 Checked By: Dave Brogan

T&B Rep. Michael Trovato Contractor Geosearch, Inc. Date 12/9/2015  
 Operator Roger Jarry Ground Elev. 355±  
 Weather 42 Degrees - Sunny Make Deere Model 60G Time Started 14:10  
 Capacity Unknown Reach 20'5" ft. Time Completed 14:50

Depth	Soil Description	Sample No.	PID Reading (ppm)	Excav. Effort	Boulder Count/Class	Note No.
0	Topsoil			E	5%/A	
1'	8" Topsoil			E	5-10%/A	
2'	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel	S-1		E	5-10%/A	
3'				E	5-10%/A	
4'				E	15-20%/A-B	
5'	Light brown, fine to medium SAND, some Silt, some fine to coarse Gravel	S-2		E	15-20%/A-B	
6'				E	15-20%/A-B	
7'				E	15-20%/A-B	
8'				E	15-20%/A-B	
9'	Gray-brown, fine to coarse SAND, some fine to coarse Gravel, little Silt	S-3		E	15-20%/A-B	
10'				E	15-20%/A-B	
11'				E	15-20%/A-B	
12'	Bottom of exploration at 10.8' due to refusal					
13'						
14'						
15'						
16'						

**Notes:**

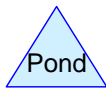
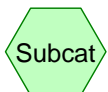
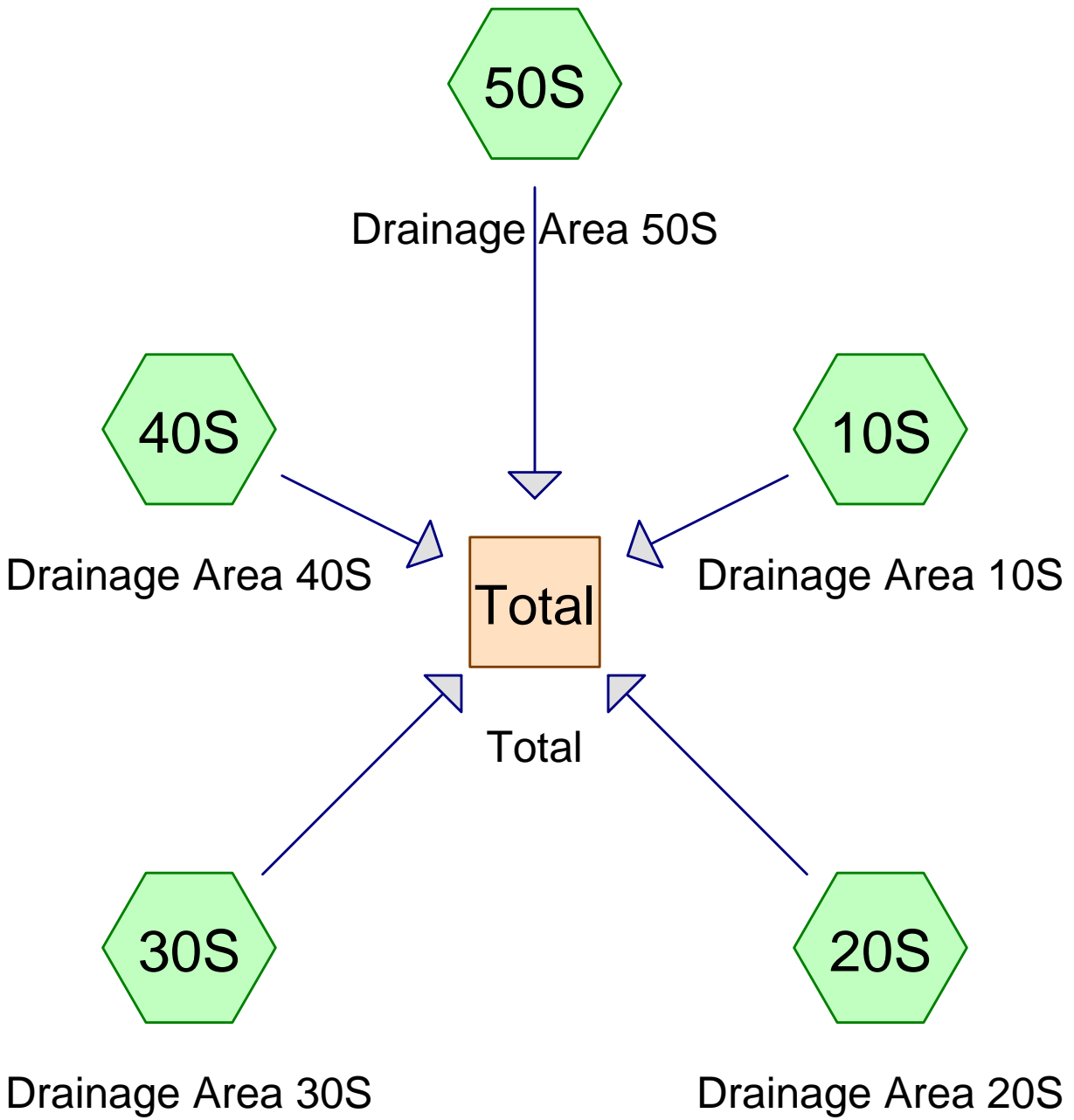
Test Pit Plan  Volume = <u>16</u> cu. yd.	<b>Boulder Class</b> Letter Designation      Size Range Classification A                                  6" - 17" B                                  18" - 36" C                                  36" +	Proportions Used TRACE (TR.)      0 - 10% LITTLE (LI.)      10 - 20% SOME (SO.)      20 - 35% AND                    35 - 50%	Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow	GROUNDWATER ( ) Encountered ( X ) Not Encountered Elapsed Time to Reading (Hours)      Depth to Ground-water
	Excavation Effort E-----Easy M-----Moderate D-----Difficult			

## **APPENDIX C:**

Hydrologic and Hydraulic Calculations



## Exiting Conditions Hydrologic Analysis



**Existing Conditions Hydrology**

Prepared by Tighe &amp; Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 2

**Area Listing (all nodes)**

Area (acres)	CN	Description (subcatchment-numbers)
0.165	36	Woods, Fair, HSG A (40S)
3.882	58	Meadow, non-grazed, HSG B (10S, 20S, 30S, 40S)
41.255	60	Woods, Fair, HSG B (10S, 20S, 30S, 40S)
3.690	60	Woods, Fair, HSG B/D (10S, 40S)
1.047	71	Meadow, non-grazed, HSG C (10S, 30S, 40S)
10.445	71	Meadow, non-grazed, HSG C/D (10S, 20S, 30S, 40S, 50S)
4.206	73	Woods, Fair, HSG C (10S, 30S, 40S, 50S)
37.197	73	Woods, Fair, HSG C/D (10S, 20S, 30S, 40S, 50S)
4.315	75	Small grain, straight row, Good, HSG B (40S)
0.743	78	Meadow, non-grazed, HSG D (30S, 40S)
1.882	78	Row crops, straight row, Good, HSG B (10S, 20S)
9.611	79	Woods, Fair, HSG D (10S, 20S, 30S, 40S)
7.003	83	Small grain, straight row, Good, HSG C (40S)
39.425	83	Small grain, straight row, Good, HSG C/D (40S, 50S)
0.289	85	Gravel roads, HSG B (10S, 20S, 30S, 40S)
0.754	85	Row crops, straight row, Good, HSG C (10S, 30S)
50.889	85	Row crops, straight row, Good, HSG C/D (10S, 20S, 30S)
2.475	87	Small grain, straight row, Good, HSG D (40S)
0.111	89	Gravel roads, HSG C (40S)
0.714	89	Gravel roads, HSG C/D (10S, 20S, 30S, 40S)
0.765	89	Row crops, straight row, Good, HSG D (30S)
0.022	91	Gravel roads, HSG D (40S)
0.086	98	Paved parking, HSG C (30S, 40S)
0.485	98	Paved parking, HSG C/D (30S, 40S)
0.003	98	Wetlands, HSG A (40S)
0.389	98	Wetlands, HSG B (30S, 40S)
0.651	98	Wetlands, HSG B/D (40S)
0.030	98	Wetlands, HSG C (40S)
4.385	98	Wetlands, HSG C/D (10S, 40S)
5.247	98	Wetlands, HSG D (30S, 40S)
<b>232.160</b>	<b>77</b>	<b>TOTAL AREA</b>



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 3

### Summary for Subcatchment 10S: Drainage Area 10S

Runoff = 33.23 cfs @ 12.49 hrs, Volume= 4.146 af, Depth> 0.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 4

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
3,394	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
32,191	85	Row crops, straight row, Good, HSG C
*	763,011	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	18,771	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
4,831	71	Meadow, non-grazed, HSG C
*	113,028	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
2,254	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	10,236	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
612,342	60	Woods, Fair, HSG B
*	160,683	60 Woods, Fair, HSG B/D
25,798	73	Woods, Fair, HSG C
*	524,435	73 Woods, Fair, HSG C/D
180,299	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	2,075	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
2,453,348	73	Weighted Average
2,451,273		99.92% Pervious Area
2,075		0.08% Impervious Area

## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

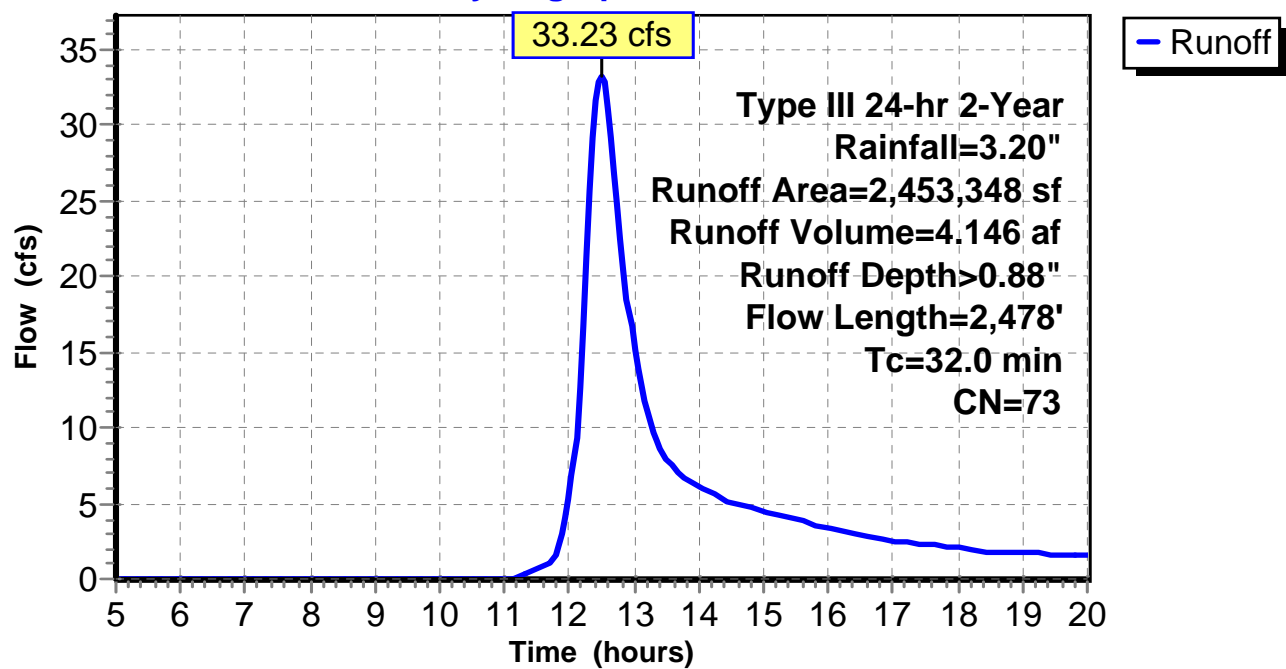
Printed 3/31/2016

Page 5

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0555	0.10		<b>Sheet Flow,</b> Woods: Light underbrush n= 0.400 P2= 3.20"
1.6	110	0.0555	1.18		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
3.5	385	0.0416	1.84		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
4.7	336	0.0179	1.20		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
6.0	685	0.0453	1.92		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.0	912	0.1458	1.91		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
32.0	2,478	Total			

### Subcatchment 10S: Drainage Area 10S

#### Hydrograph





## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 6

### Summary for Subcatchment 20S: Drainage Area 20S

Runoff = 11.20 cfs @ 12.39 hrs, Volume= 1.303 af, Depth> 0.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

**Existing Conditions Hydrology**

Prepared by Tighe & Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 7

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
78,604	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	264,893	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	81,395	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
*	12,661	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
6,195	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	2,947	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
510,799	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
0	73	Woods, Fair, HSG C
*	14,248	73 Woods, Fair, HSG C/D
7,744	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
979,486	69	Weighted Average
979,486		100.00% Pervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

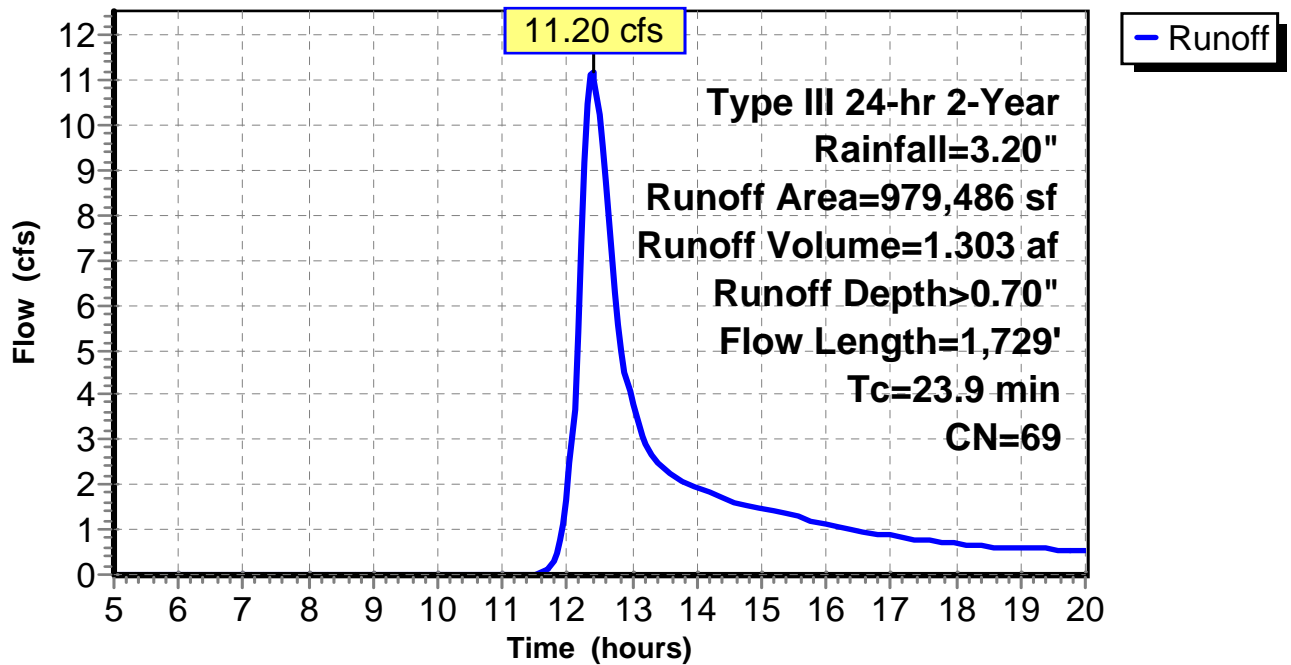
Printed 3/31/2016

Page 8

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	50	0.0200	0.13		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
6.4	726	0.0441	1.89		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
11.3	953	0.0797	1.41		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
23.9	1,729	Total			

## Subcatchment 20S: Drainage Area 20S

### Hydrograph





## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 9

### Summary for Subcatchment 30S: Drainage Area 30S

Runoff = 39.30 cfs @ 12.42 hrs, Volume= 4.545 af, Depth> 1.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 10

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
665	85	Row crops, straight row, Good, HSG C
*	1,188,822	85 Row crops, straight row, Good, HSG C/D
33,310	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	23,989	Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
9,399	71	Meadow, non-grazed, HSG C
*	115,340	71 Meadow, non-grazed, HSG C/D
13,942	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
2,490	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	641	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
181,042	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
13,965	73	Woods, Fair, HSG C
*	82,828	73 Woods, Fair, HSG C/D
42,854	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	5,446	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	34,318	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
2,987	98	Paved parking, HSG C
*	11,318	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
1,763,356	81	Weighted Average
1,709,287		96.93% Pervious Area
54,069		3.07% Impervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

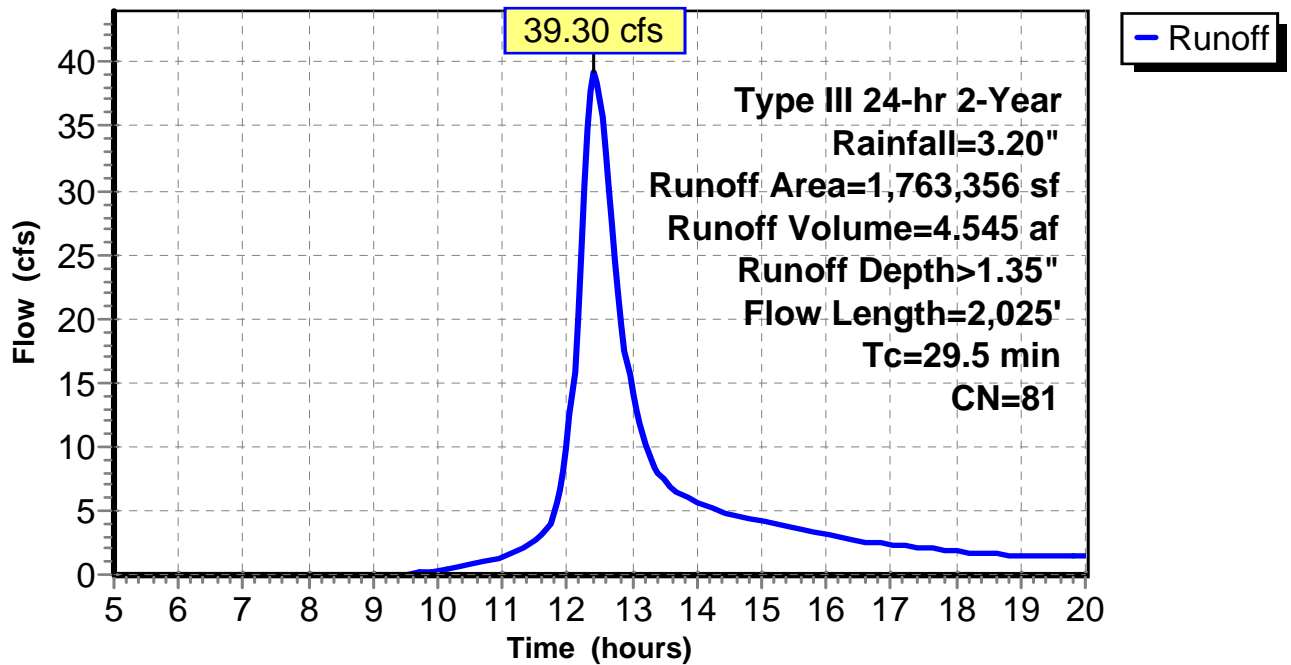
Printed 3/31/2016

Page 11

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	50	0.0150	0.12		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
11.6	1,188	0.0362	1.71		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
10.9	787	0.0577	1.20		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
29.5	2,025	Total			

## Subcatchment 30S: Drainage Area 30S

### Hydrograph





## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 12

### Summary for Subcatchment 40S: Drainage Area 40S

Runoff = 45.77 cfs @ 13.18 hrs, Volume= 9.550 af, Depth> 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 13

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
187,953	75	Small grain, straight row, Good, HSG B
* 0	75	Small grain, straight row, Good, HSG B/D
305,031	83	Small grain, straight row, Good, HSG C
* 1,290,370	83	Small grain, straight row, Good, HSG C/D
107,792	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
* 0	78	Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
* 0	85	Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
* 44,928	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
31,396	71	Meadow, non-grazed, HSG C
* 162,114	71	Meadow, non-grazed, HSG C/D
18,415	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
1,654	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
4,831	89	Gravel roads, HSG C
* 17,267	89	Gravel roads, HSG C/D
966	91	Gravel roads, HSG D
7,185	36	Woods, Fair, HSG A
492,897	60	Woods, Fair, HSG B
* 75	60	Woods, Fair, HSG B/D
133,015	73	Woods, Fair, HSG C
* 986,850	73	Woods, Fair, HSG C/D
187,750	79	Woods, Fair, HSG D
* 115	98	Wetlands, HSG A
* 11,508	98	Wetlands, HSG B
* 28,352	98	Wetlands, HSG B/D
* 1,289	98	Wetlands, HSG C
* 188,916	98	Wetlands, HSG C/D
* 194,241	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
754	98	Paved parking, HSG C
* 9,828	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
4,415,492	78	Weighted Average
3,980,489		90.15% Pervious Area
435,003		9.85% Impervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 2-Year Rainfall=3.20"

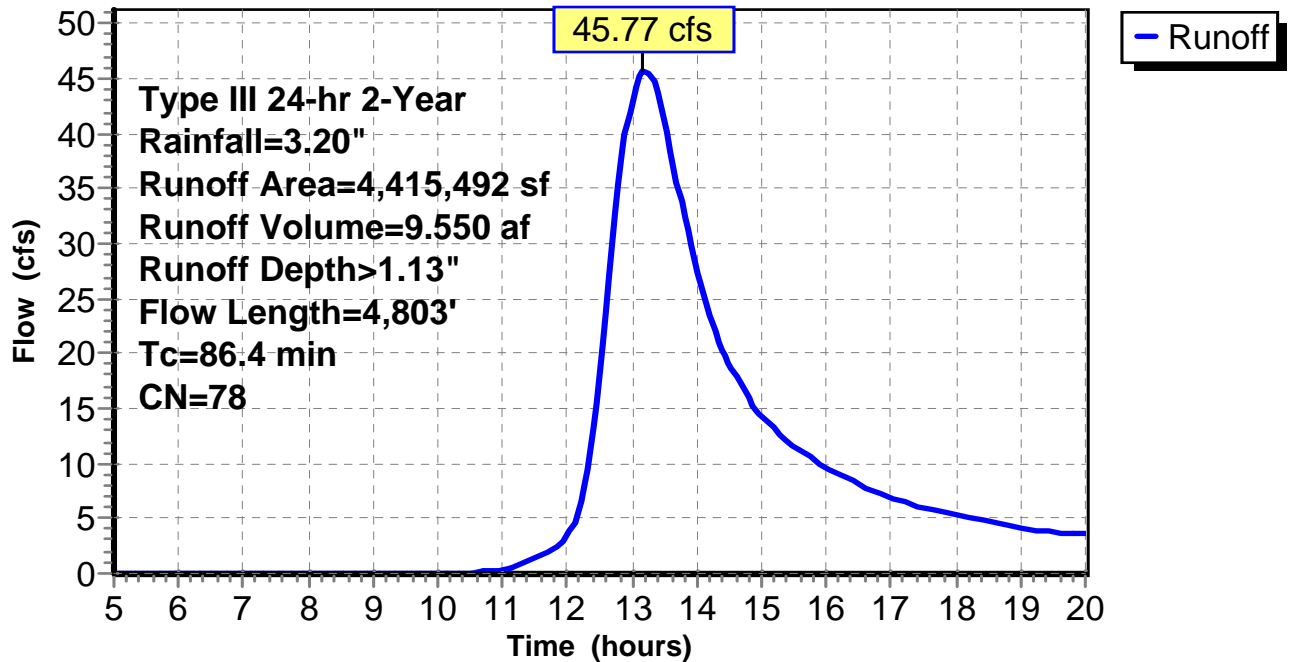
Printed 3/31/2016

Page 14

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0200	0.10		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
13.1	833	0.0228	1.06		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
12.6	674	0.0163	0.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
52.5	3,246	0.0425	1.03		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
86.4	4,803	Total			

## Subcatchment 40S: Drainage Area 40S

### Hydrograph





## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 15

### Summary for Subcatchment 50S: Drainage Area 50S

Runoff = 11.76 cfs @ 12.38 hrs, Volume= 1.294 af, Depth> 1.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

**Existing Conditions Hydrology**

Prepared by Tighe & Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 16

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	427,001	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	0	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	0	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
*	51,839	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	0	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
0	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
10,433	73	Woods, Fair, HSG C
*	11,932	73 Woods, Fair, HSG C/D
0	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
501,205	81	Weighted Average
501,205		100.00% Pervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

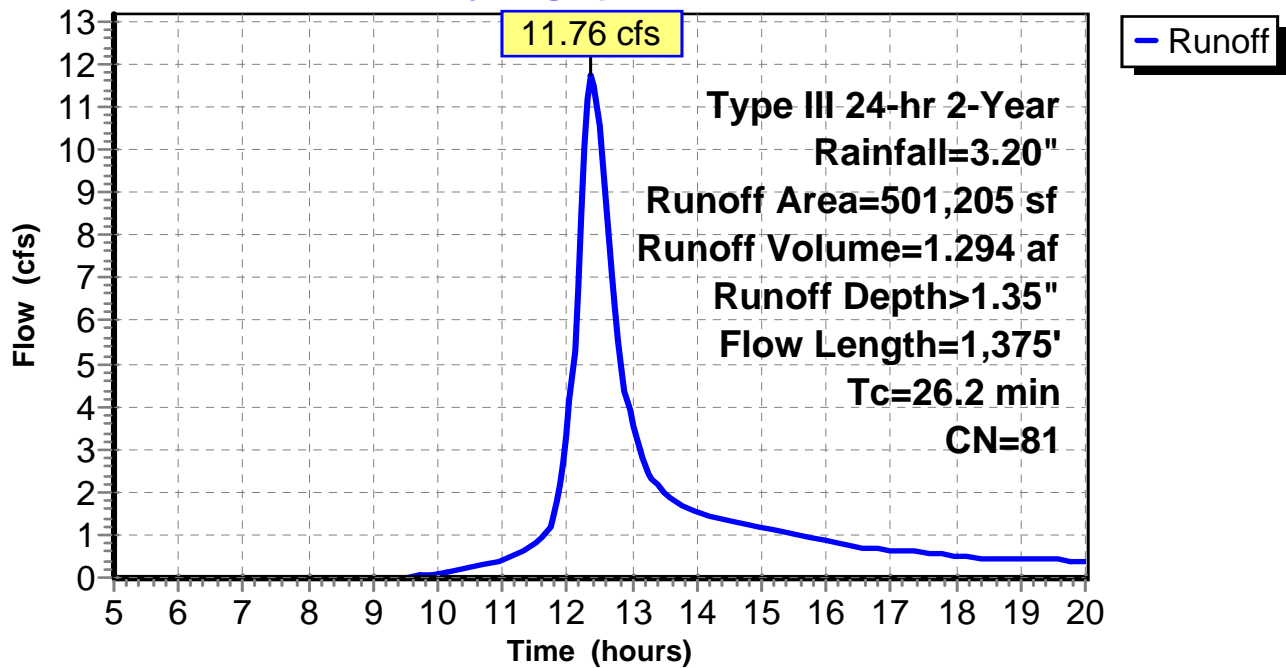
Printed 3/31/2016

Page 17

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0100	0.10		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
9.8	607	0.0132	1.03		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.2	718	0.0265	1.47		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
26.2	1,375	Total			

## Subcatchment 50S: Drainage Area 50S

### Hydrograph





# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 18

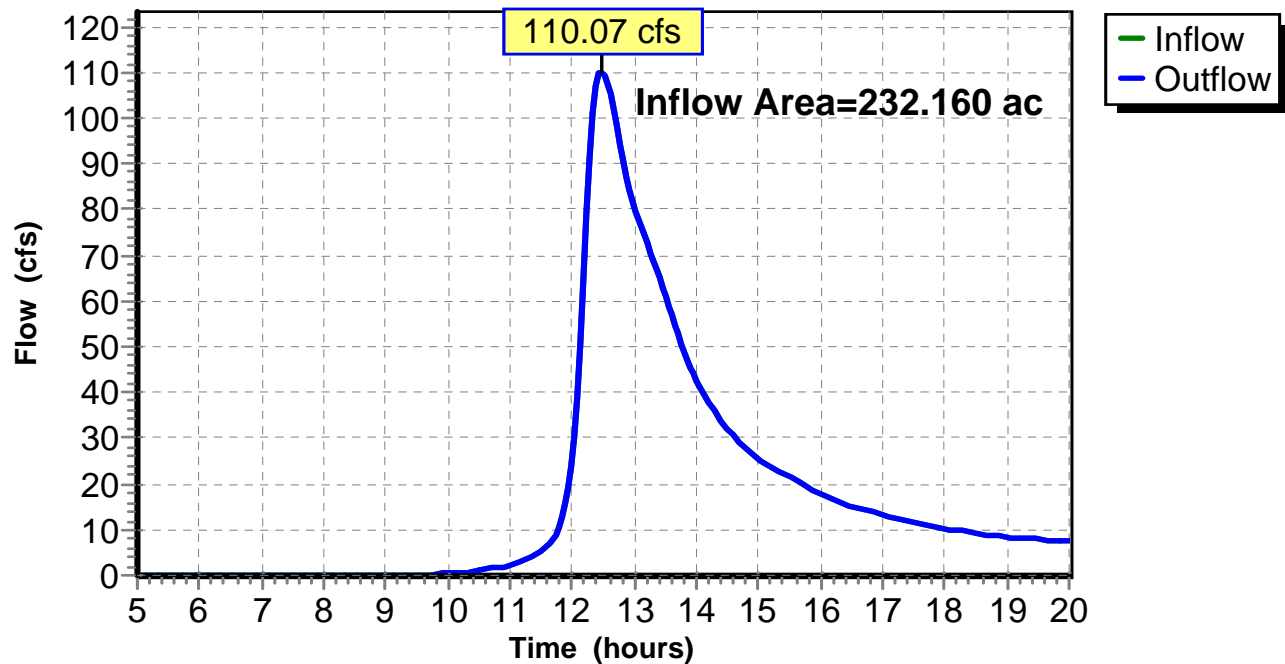
## Summary for Reach Total: Total

Inflow Area = 232.160 ac, 4.86% Impervious, Inflow Depth > 1.08" for 2-Year event  
Inflow = 110.07 cfs @ 12.48 hrs, Volume= 20.838 af  
Outflow = 110.07 cfs @ 12.48 hrs, Volume= 20.838 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

### Reach Total: Total

#### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 19

### Summary for Subcatchment 10S: Drainage Area 10S

Runoff = 75.90 cfs @ 12.46 hrs, Volume= 9.122 af, Depth> 1.94"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 20

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
3,394	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
32,191	85	Row crops, straight row, Good, HSG C
*	763,011	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	18,771	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
4,831	71	Meadow, non-grazed, HSG C
*	113,028	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
2,254	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	10,236	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
612,342	60	Woods, Fair, HSG B
*	160,683	60 Woods, Fair, HSG B/D
25,798	73	Woods, Fair, HSG C
*	524,435	73 Woods, Fair, HSG C/D
180,299	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	2,075	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
2,453,348	73	Weighted Average
2,451,273		99.92% Pervious Area
2,075		0.08% Impervious Area



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

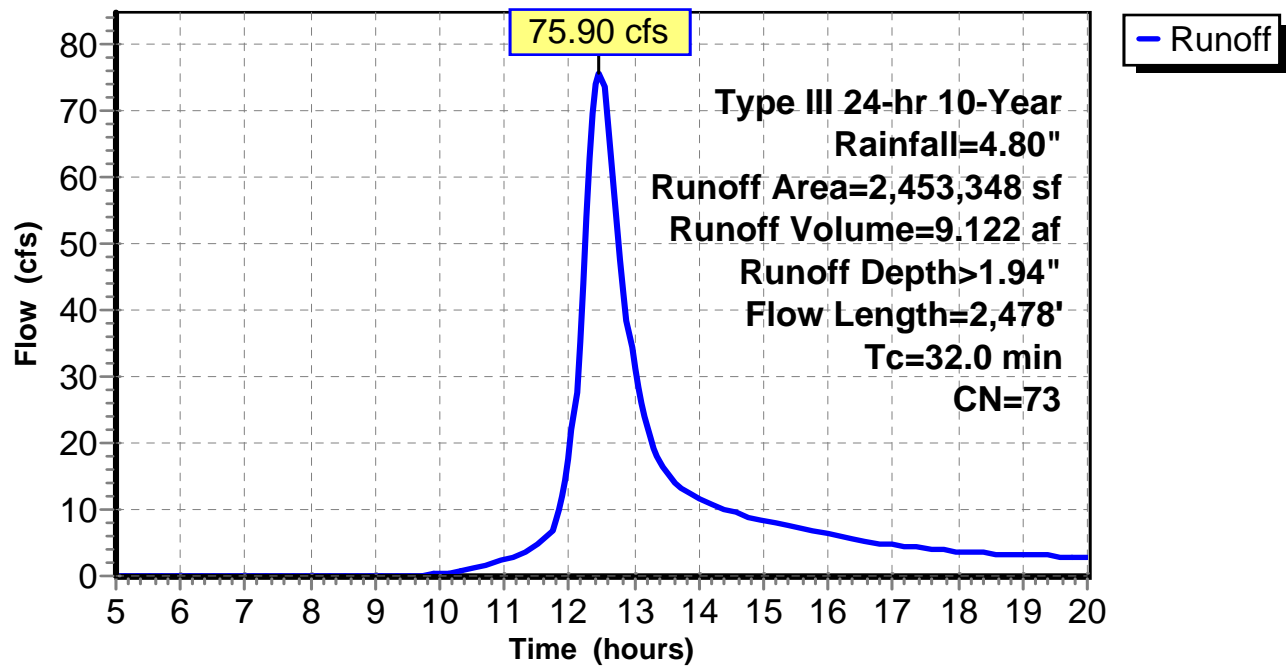
Printed 3/31/2016

Page 21

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0555	0.10		<b>Sheet Flow,</b> Woods: Light underbrush n= 0.400 P2= 3.20"
1.6	110	0.0555	1.18		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
3.5	385	0.0416	1.84		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
4.7	336	0.0179	1.20		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
6.0	685	0.0453	1.92		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.0	912	0.1458	1.91		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
32.0	2,478	Total			

### Subcatchment 10S: Drainage Area 10S

#### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 22

### Summary for Subcatchment 20S: Drainage Area 20S

Runoff = 28.87 cfs @ 12.35 hrs, Volume= 3.096 af, Depth> 1.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 23

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
78,604	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	264,893	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	81,395	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
*	12,661	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
6,195	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	2,947	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
510,799	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
0	73	Woods, Fair, HSG C
*	14,248	73 Woods, Fair, HSG C/D
7,744	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
979,486	69	Weighted Average
979,486		100.00% Pervious Area



# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 10-Year Rainfall=4.80"

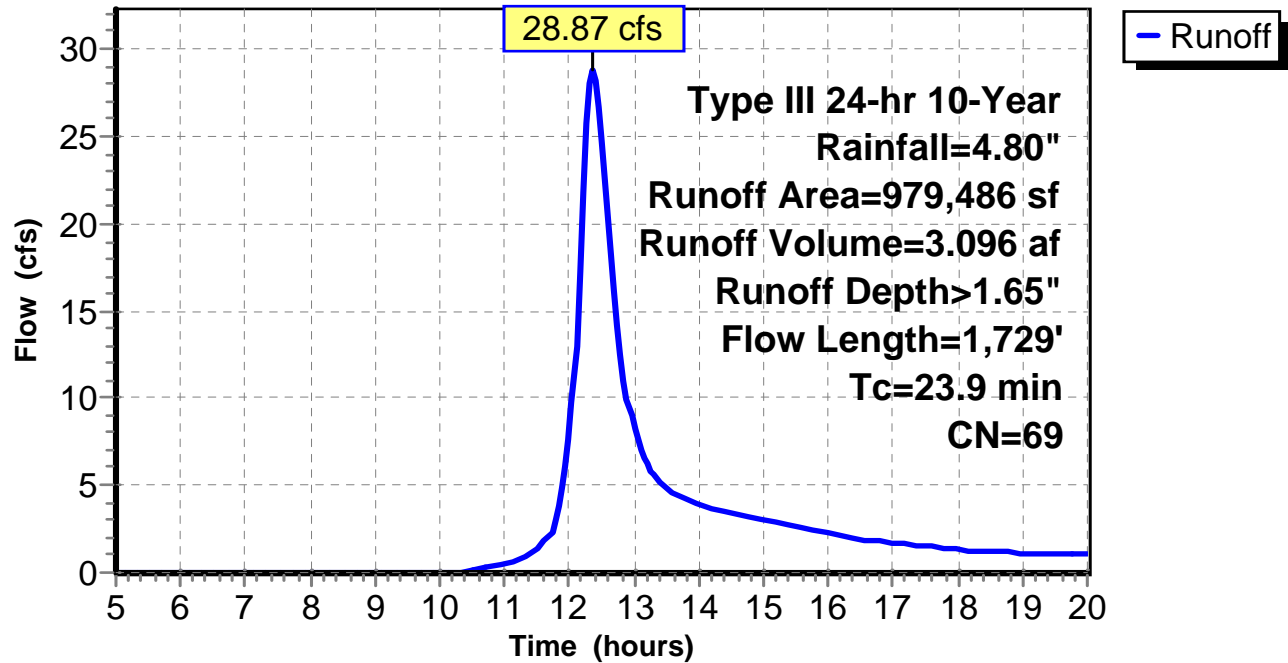
Printed 3/31/2016

Page 24

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	50	0.0200	0.13		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
6.4	726	0.0441	1.89		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
11.3	953	0.0797	1.41		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
23.9	1,729	Total			

## Subcatchment 20S: Drainage Area 20S

### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 25

### Summary for Subcatchment 30S: Drainage Area 30S

Runoff = 75.84 cfs @ 12.41 hrs, Volume= 8.788 af, Depth> 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 26

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
665	85	Row crops, straight row, Good, HSG C
*	1,188,822	85 Row crops, straight row, Good, HSG C/D
33,310	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	23,989	Meadow, non-grazed, HSG B
*	0	Meadow, non-grazed, HSG B/D
9,399	71	Meadow, non-grazed, HSG C
*	115,340	Meadow, non-grazed, HSG C/D
13,942	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
2,490	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	641	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
181,042	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
13,965	73	Woods, Fair, HSG C
*	82,828	73 Woods, Fair, HSG C/D
42,854	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	5,446	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	34,318	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
2,987	98	Paved parking, HSG C
*	11,318	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
1,763,356	81	Weighted Average
1,709,287		96.93% Pervious Area
54,069		3.07% Impervious Area



# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 10-Year Rainfall=4.80"

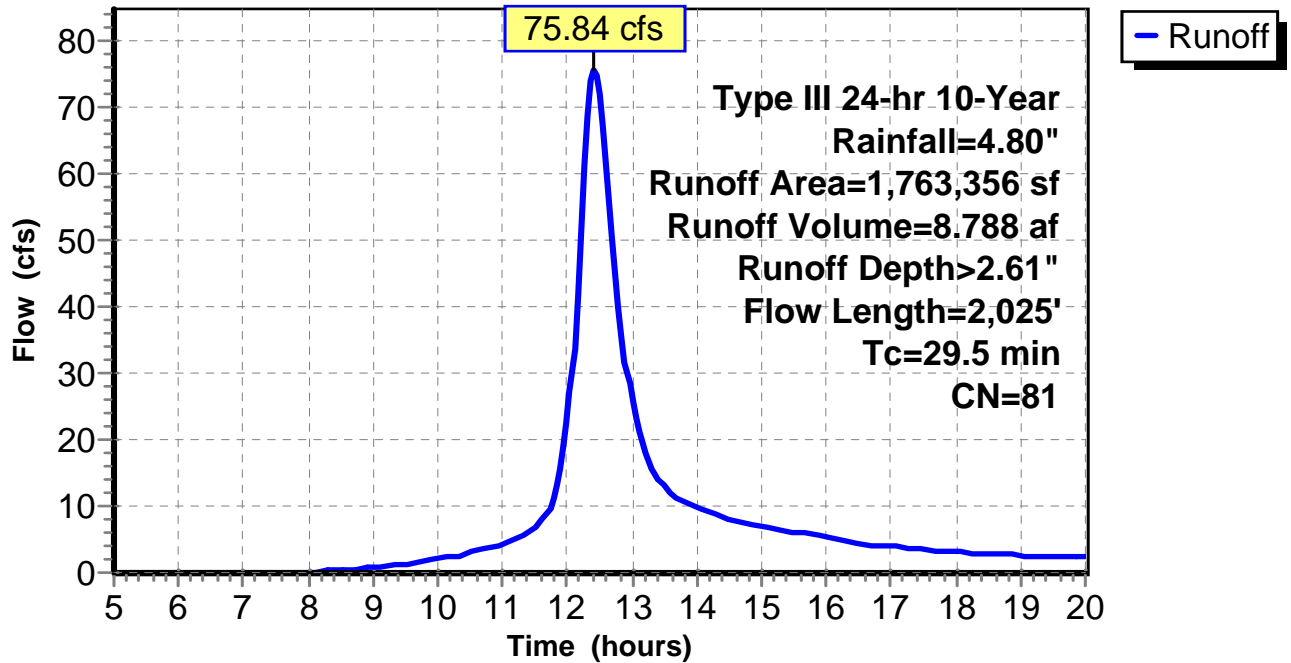
Printed 3/31/2016

Page 27

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	50	0.0150	0.12		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
11.6	1,188	0.0362	1.71		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
10.9	787	0.0577	1.20		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
29.5	2,025	Total			

## Subcatchment 30S: Drainage Area 30S

### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 28

### Summary for Subcatchment 40S: Drainage Area 40S

Runoff = 94.44 cfs @ 13.16 hrs, Volume= 19.393 af, Depth> 2.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"

## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 29

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
187,953	75	Small grain, straight row, Good, HSG B
*	0	Small grain, straight row, Good, HSG B/D
305,031	83	Small grain, straight row, Good, HSG C
*	1,290,370	Small grain, straight row, Good, HSG C/D
107,792	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	0	Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	44,928	Meadow, non-grazed, HSG B
*	0	Meadow, non-grazed, HSG B/D
31,396	71	Meadow, non-grazed, HSG C
*	162,114	Meadow, non-grazed, HSG C/D
18,415	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
1,654	85	Gravel roads, HSG B
*	0	Gravel roads, HSG B/D
4,831	89	Gravel roads, HSG C
*	17,267	Gravel roads, HSG C/D
966	91	Gravel roads, HSG D
7,185	36	Woods, Fair, HSG A
492,897	60	Woods, Fair, HSG B
*	75	Woods, Fair, HSG B/D
133,015	73	Woods, Fair, HSG C
*	986,850	Woods, Fair, HSG C/D
187,750	79	Woods, Fair, HSG D
*	115	Wetlands, HSG A
*	11,508	Wetlands, HSG B
*	28,352	Wetlands, HSG B/D
*	1,289	Wetlands, HSG C
*	188,916	Wetlands, HSG C/D
*	194,241	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	Paved parking, HSG B/D
754	98	Paved parking, HSG C
*	9,828	Paved parking, HSG C/D
0	98	Paved parking, HSG D
4,415,492	78	Weighted Average
3,980,489		90.15% Pervious Area
435,003		9.85% Impervious Area



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

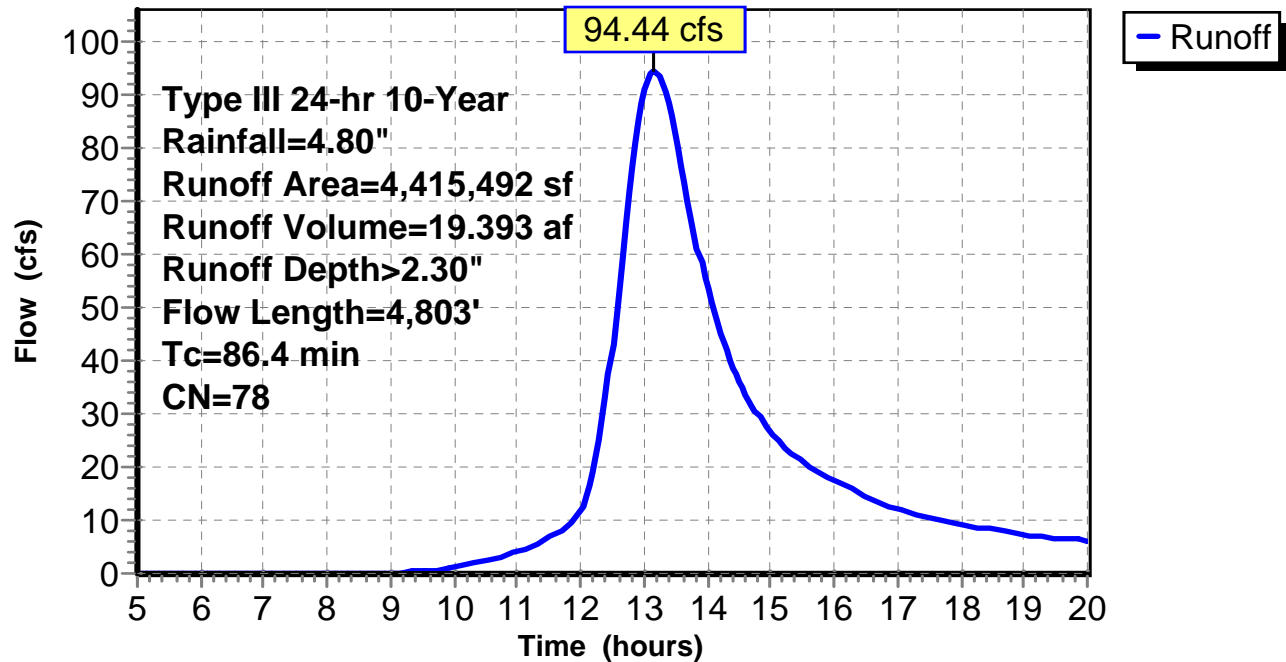
Printed 3/31/2016

Page 30

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0200	0.10		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
13.1	833	0.0228	1.06		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
12.6	674	0.0163	0.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
52.5	3,246	0.0425	1.03		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
86.4	4,803	Total			

### Subcatchment 40S: Drainage Area 40S

#### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 31

### Summary for Subcatchment 50S: Drainage Area 50S

Runoff = 22.73 cfs @ 12.36 hrs, Volume= 2.501 af, Depth> 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 32

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	427,001	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	0	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	0	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
*	51,839	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	0	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
0	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
10,433	73	Woods, Fair, HSG C
*	11,932	73 Woods, Fair, HSG C/D
0	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
501,205	81	Weighted Average
501,205		100.00% Pervious Area



# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 10-Year Rainfall=4.80"

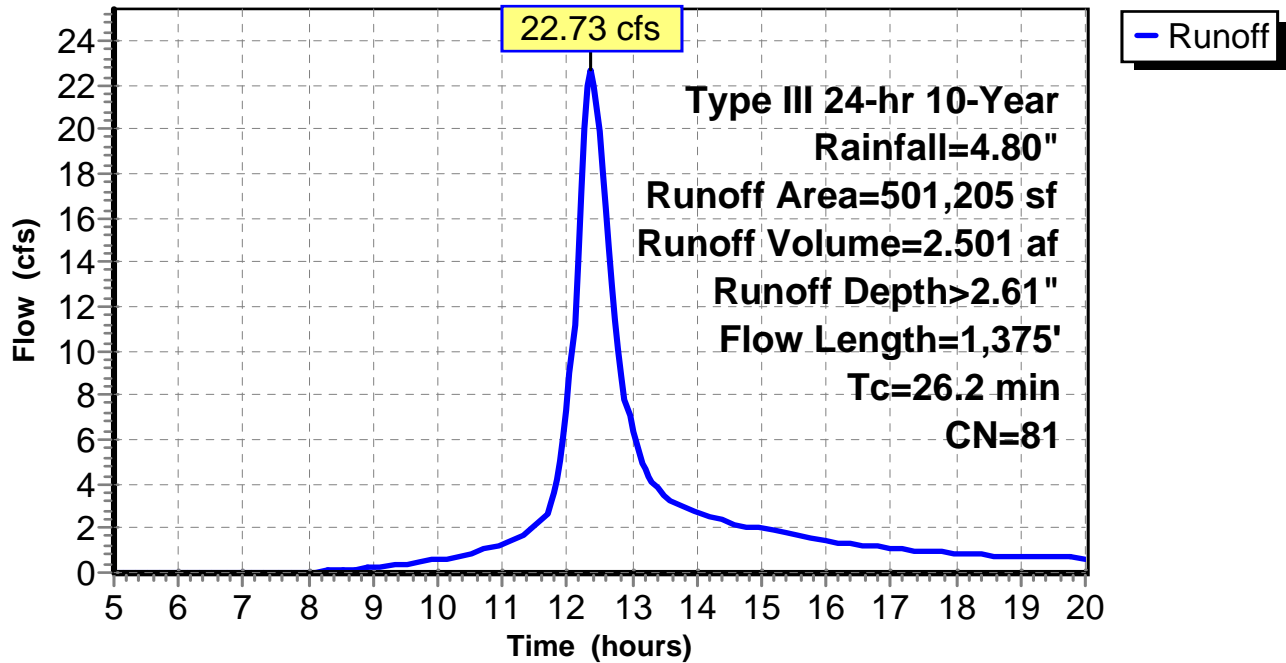
Printed 3/31/2016

Page 33

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0100	0.10		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
9.8	607	0.0132	1.03		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.2	718	0.0265	1.47		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
26.2	1,375	Total			

## Subcatchment 50S: Drainage Area 50S

### Hydrograph



# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 34

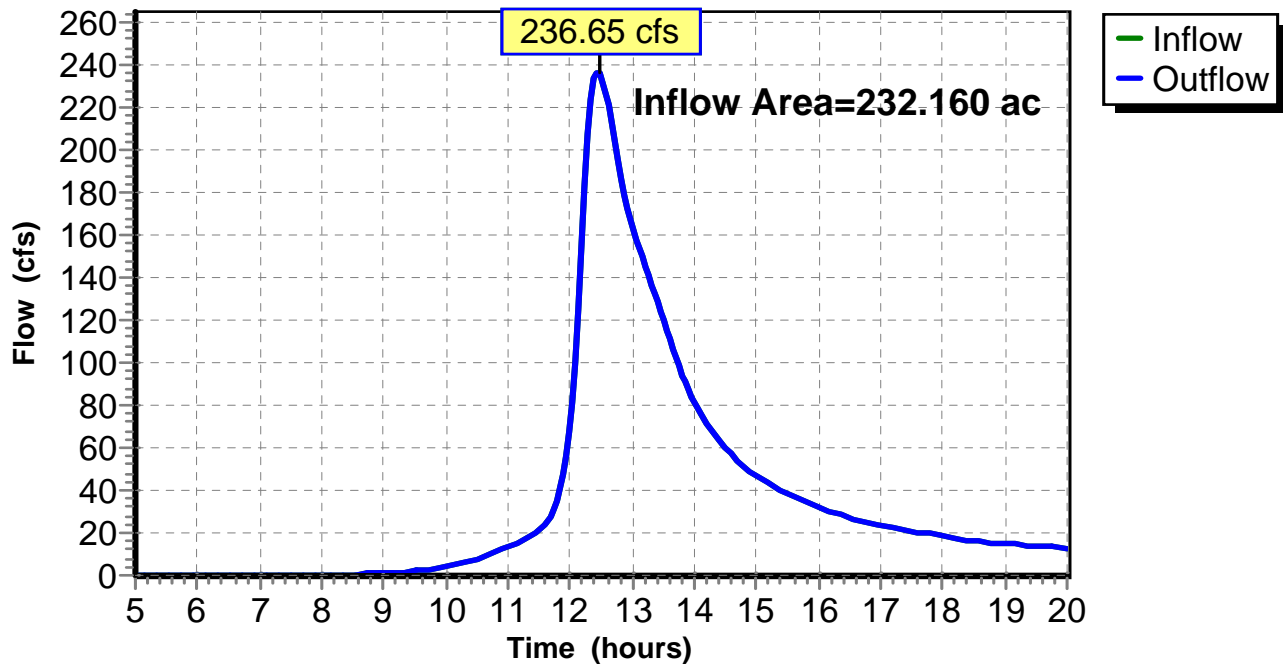
## Summary for Reach Total: Total

Inflow Area = 232.160 ac, 4.86% Impervious, Inflow Depth > 2.22" for 10-Year event  
Inflow = 236.65 cfs @ 12.45 hrs, Volume= 42.900 af  
Outflow = 236.65 cfs @ 12.45 hrs, Volume= 42.900 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

### Reach Total: Total

#### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 35

### Summary for Subcatchment 10S: Drainage Area 10S

Runoff = 96.39 cfs @ 12.46 hrs, Volume= 11.552 af, Depth> 2.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"



# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 36

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
3,394	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
32,191	85	Row crops, straight row, Good, HSG C
*	763,011	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	18,771	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
4,831	71	Meadow, non-grazed, HSG C
*	113,028	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
2,254	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	10,236	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
612,342	60	Woods, Fair, HSG B
*	160,683	60 Woods, Fair, HSG B/D
25,798	73	Woods, Fair, HSG C
*	524,435	73 Woods, Fair, HSG C/D
180,299	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	2,075	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
2,453,348	73	Weighted Average
2,451,273		99.92% Pervious Area
2,075		0.08% Impervious Area

## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 25-Year Rainfall=5.50"

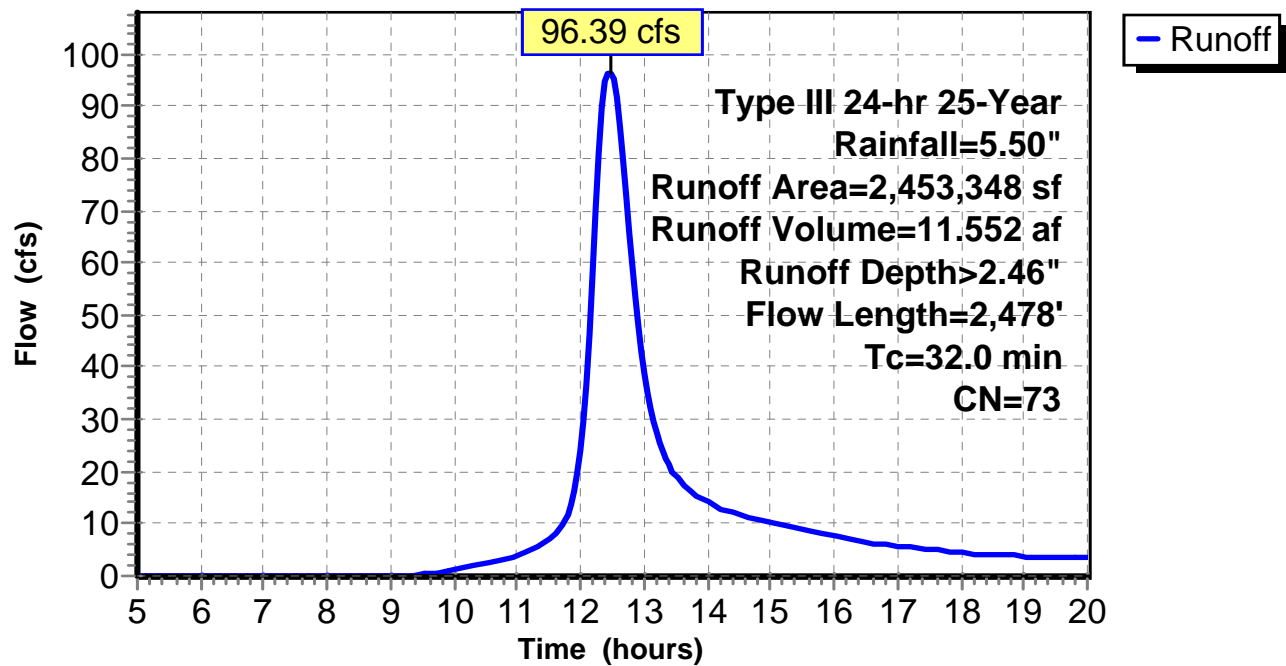
Printed 3/31/2016

Page 37

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0555	0.10		<b>Sheet Flow,</b> Woods: Light underbrush n= 0.400 P2= 3.20"
1.6	110	0.0555	1.18		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
3.5	385	0.0416	1.84		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
4.7	336	0.0179	1.20		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
6.0	685	0.0453	1.92		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.0	912	0.1458	1.91		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
32.0	2,478	Total			

### Subcatchment 10S: Drainage Area 10S

#### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 38

### Summary for Subcatchment 20S: Drainage Area 20S

Runoff = 37.62 cfs @ 12.35 hrs, Volume= 3.995 af, Depth> 2.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"



# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 39

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
78,604	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	264,893	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	81,395	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
*	12,661	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
6,195	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	2,947	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
510,799	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
0	73	Woods, Fair, HSG C
*	14,248	73 Woods, Fair, HSG C/D
7,744	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
979,486	69	Weighted Average
979,486		100.00% Pervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

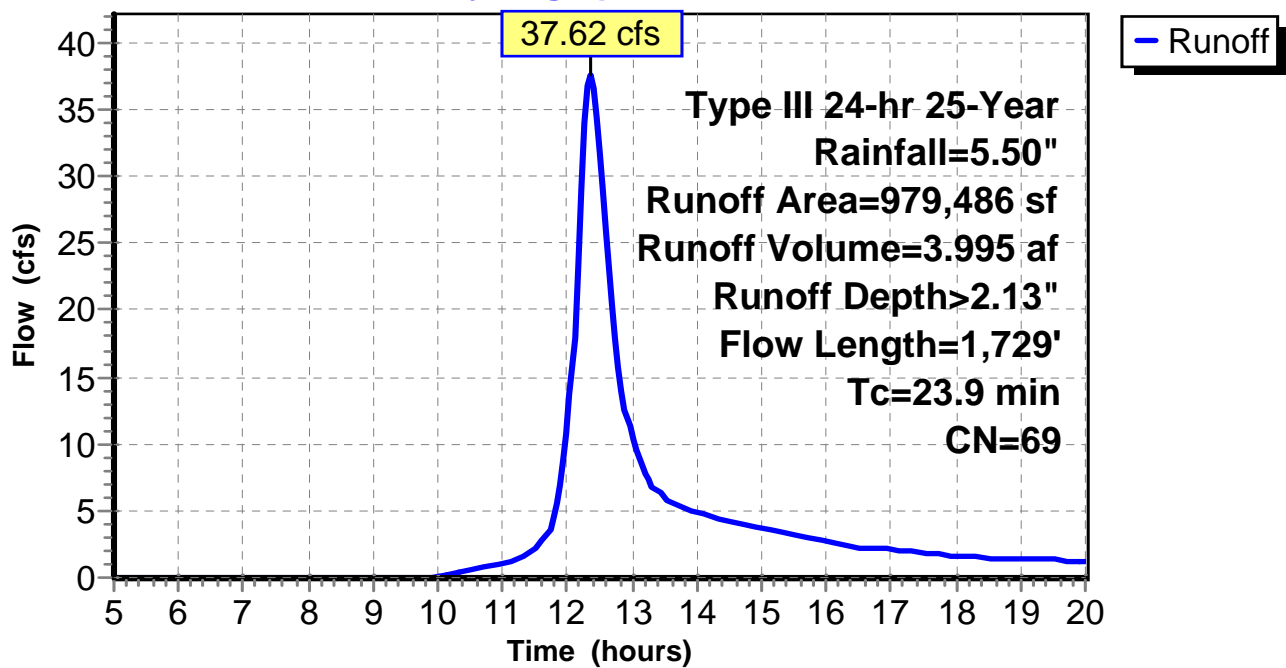
Printed 3/31/2016

Page 40

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	50	0.0200	0.13		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
6.4	726	0.0441	1.89		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
11.3	953	0.0797	1.41		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
23.9	1,729	Total			

## Subcatchment 20S: Drainage Area 20S

### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 41

### Summary for Subcatchment 30S: Drainage Area 30S

Runoff = 92.46 cfs @ 12.41 hrs, Volume= 10.764 af, Depth> 3.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"



# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 42

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
665	85	Row crops, straight row, Good, HSG C
*	1,188,822	85 Row crops, straight row, Good, HSG C/D
33,310	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	23,989	Meadow, non-grazed, HSG B
*	0	Meadow, non-grazed, HSG B/D
9,399	71	Meadow, non-grazed, HSG C
*	115,340	Meadow, non-grazed, HSG C/D
13,942	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
2,490	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	641	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
181,042	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
13,965	73	Woods, Fair, HSG C
*	82,828	73 Woods, Fair, HSG C/D
42,854	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	5,446	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	34,318	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
2,987	98	Paved parking, HSG C
*	11,318	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
1,763,356	81	Weighted Average
1,709,287		96.93% Pervious Area
54,069		3.07% Impervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 25-Year Rainfall=5.50"

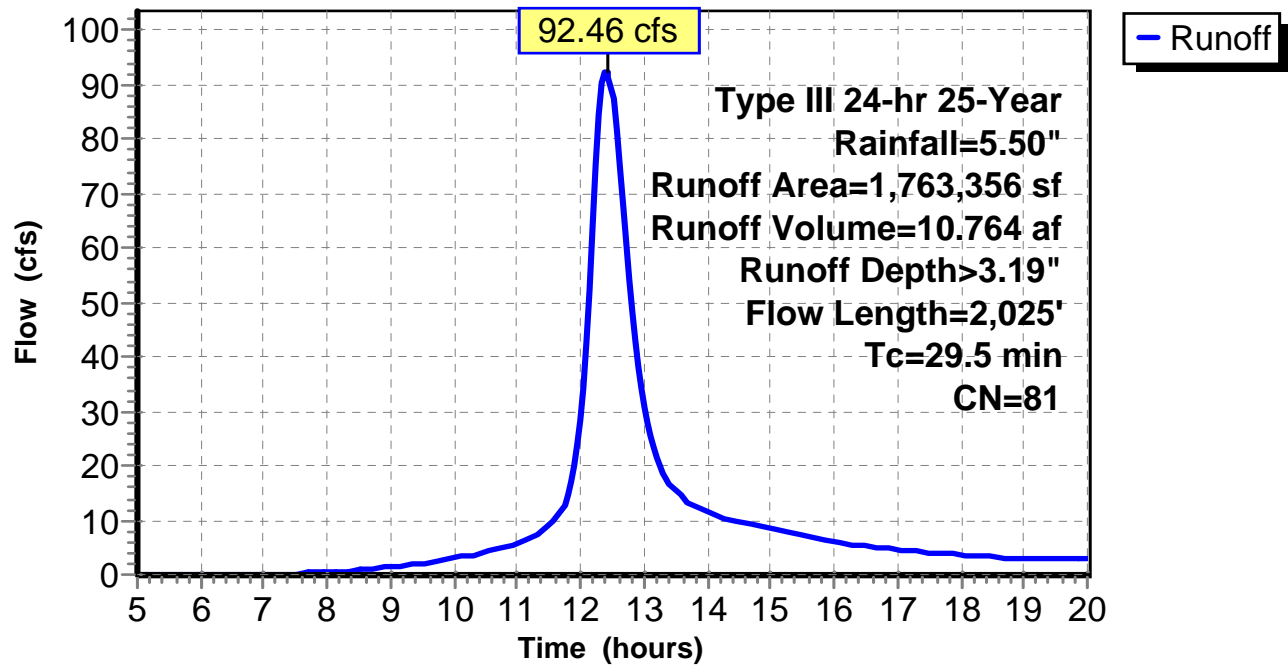
Printed 3/31/2016

Page 43

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	50	0.0150	0.12		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
11.6	1,188	0.0362	1.71		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
10.9	787	0.0577	1.20		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
29.5	2,025	Total			

## Subcatchment 30S: Drainage Area 30S

### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 44

### Summary for Subcatchment 40S: Drainage Area 40S

Runoff = 117.04 cfs @ 13.15 hrs, Volume= 24.061 af, Depth> 2.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 45

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
187,953	75	Small grain, straight row, Good, HSG B
*	0	Small grain, straight row, Good, HSG B/D
305,031	83	Small grain, straight row, Good, HSG C
*	1,290,370	Small grain, straight row, Good, HSG C/D
107,792	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	0	Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	44,928	Meadow, non-grazed, HSG B
*	0	Meadow, non-grazed, HSG B/D
31,396	71	Meadow, non-grazed, HSG C
*	162,114	Meadow, non-grazed, HSG C/D
18,415	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
1,654	85	Gravel roads, HSG B
*	0	Gravel roads, HSG B/D
4,831	89	Gravel roads, HSG C
*	17,267	Gravel roads, HSG C/D
966	91	Gravel roads, HSG D
7,185	36	Woods, Fair, HSG A
492,897	60	Woods, Fair, HSG B
*	75	Woods, Fair, HSG B/D
133,015	73	Woods, Fair, HSG C
*	986,850	Woods, Fair, HSG C/D
187,750	79	Woods, Fair, HSG D
*	115	Wetlands, HSG A
*	11,508	Wetlands, HSG B
*	28,352	Wetlands, HSG B/D
*	1,289	Wetlands, HSG C
*	188,916	Wetlands, HSG C/D
*	194,241	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	Paved parking, HSG B/D
754	98	Paved parking, HSG C
*	9,828	Paved parking, HSG C/D
0	98	Paved parking, HSG D
4,415,492	78	Weighted Average
3,980,489		90.15% Pervious Area
435,003		9.85% Impervious Area

### Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 25-Year Rainfall=5.50"

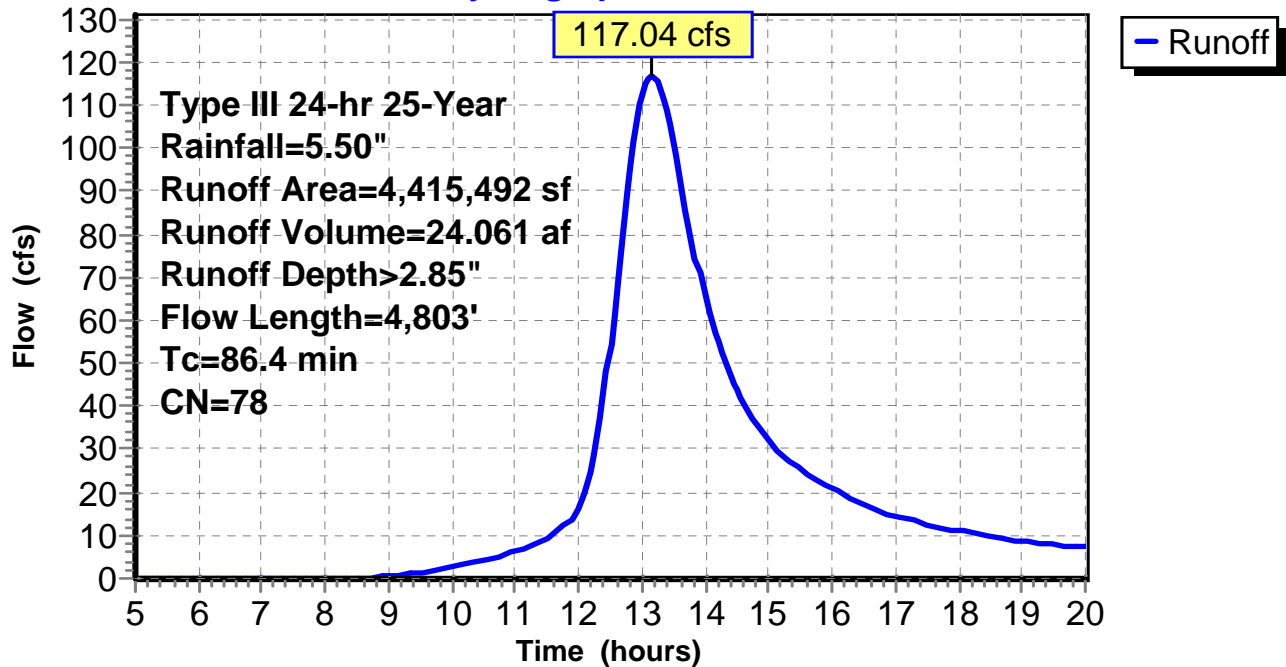
Printed 3/31/2016

Page 46

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0200	0.10		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
13.1	833	0.0228	1.06		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
12.6	674	0.0163	0.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
52.5	3,246	0.0425	1.03		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
86.4	4,803	Total			

### Subcatchment 40S: Drainage Area 40S

#### Hydrograph



## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 47

### Summary for Subcatchment 50S: Drainage Area 50S

Runoff = 27.71 cfs @ 12.36 hrs, Volume= 3.063 af, Depth> 3.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"



# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 48

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	427,001	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	0	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	0	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
*	51,839	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	0	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
0	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
10,433	73	Woods, Fair, HSG C
*	11,932	73 Woods, Fair, HSG C/D
0	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
501,205	81	Weighted Average
501,205		100.00% Pervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 25-Year Rainfall=5.50"

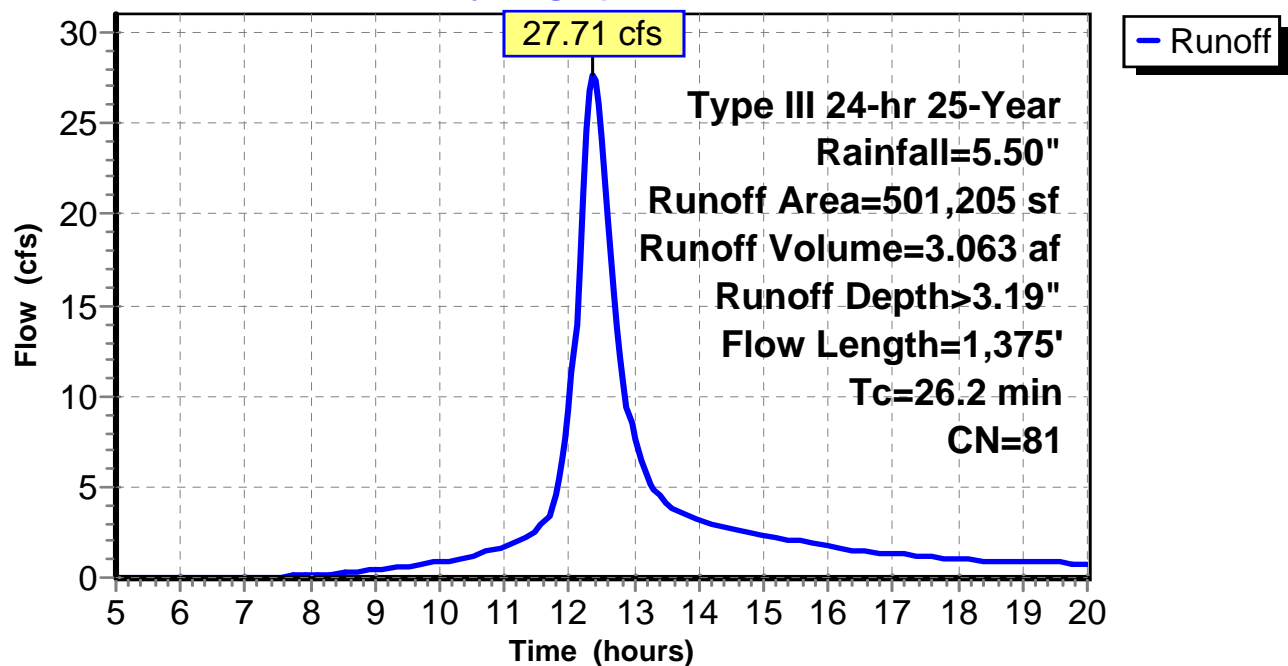
Printed 3/31/2016

Page 49

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0100	0.10		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
9.8	607	0.0132	1.03		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.2	718	0.0265	1.47		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
26.2	1,375	Total			

## Subcatchment 50S: Drainage Area 50S

### Hydrograph



# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 50

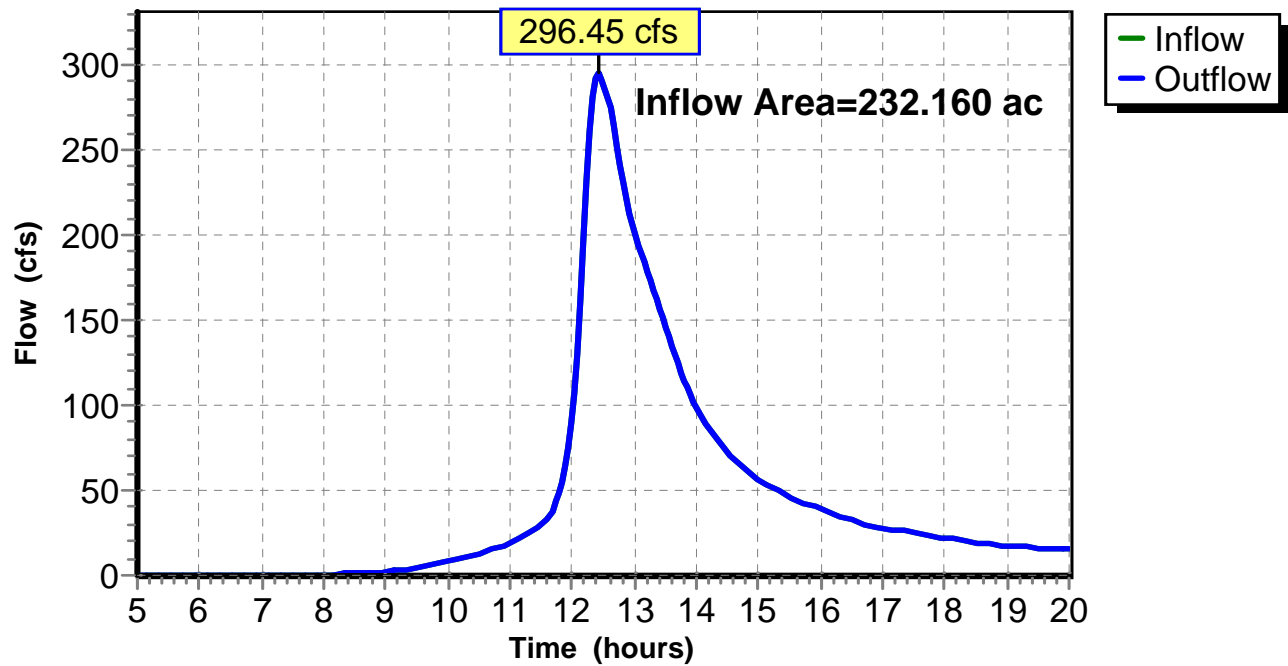
## Summary for Reach Total: Total

Inflow Area = 232.160 ac, 4.86% Impervious, Inflow Depth > 2.76" for 25-Year event  
Inflow = 296.45 cfs @ 12.45 hrs, Volume= 53.435 af  
Outflow = 296.45 cfs @ 12.45 hrs, Volume= 53.435 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

### Reach Total: Total

#### Hydrograph





## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 51

### Summary for Subcatchment 10S: Drainage Area 10S

Runoff = 139.18 cfs @ 12.45 hrs, Volume= 16.702 af, Depth> 3.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 52

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
3,394	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
32,191	85	Row crops, straight row, Good, HSG C
*	763,011	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	18,771	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
4,831	71	Meadow, non-grazed, HSG C
*	113,028	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
2,254	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	10,236	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
612,342	60	Woods, Fair, HSG B
*	160,683	60 Woods, Fair, HSG B/D
25,798	73	Woods, Fair, HSG C
*	524,435	73 Woods, Fair, HSG C/D
180,299	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	2,075	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
2,453,348	73	Weighted Average
2,451,273		99.92% Pervious Area
2,075		0.08% Impervious Area

## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 100-Year Rainfall=6.90"

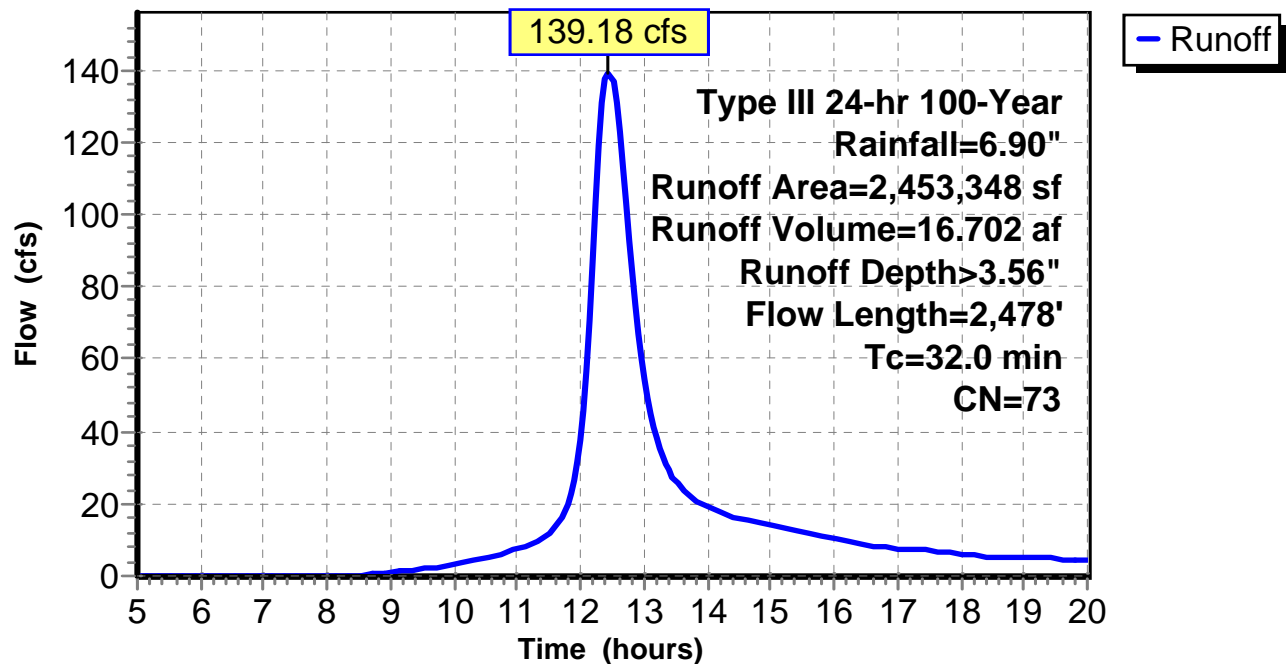
Printed 3/31/2016

Page 53

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0555	0.10		<b>Sheet Flow,</b> Woods: Light underbrush n= 0.400 P2= 3.20"
1.6	110	0.0555	1.18		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
3.5	385	0.0416	1.84		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
4.7	336	0.0179	1.20		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
6.0	685	0.0453	1.92		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.0	912	0.1458	1.91		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
32.0	2,478	Total			

### Subcatchment 10S: Drainage Area 10S

#### Hydrograph





## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 54

### Summary for Subcatchment 20S: Drainage Area 20S

Runoff = 56.19 cfs @ 12.34 hrs, Volume= 5.932 af, Depth> 3.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"

**Existing Conditions Hydrology**

Prepared by Tighe & Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 55

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
78,604	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	264,893	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	81,395	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
*	12,661	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
6,195	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	2,947	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
510,799	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
0	73	Woods, Fair, HSG C
*	14,248	73 Woods, Fair, HSG C/D
7,744	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
979,486	69	Weighted Average
979,486		100.00% Pervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

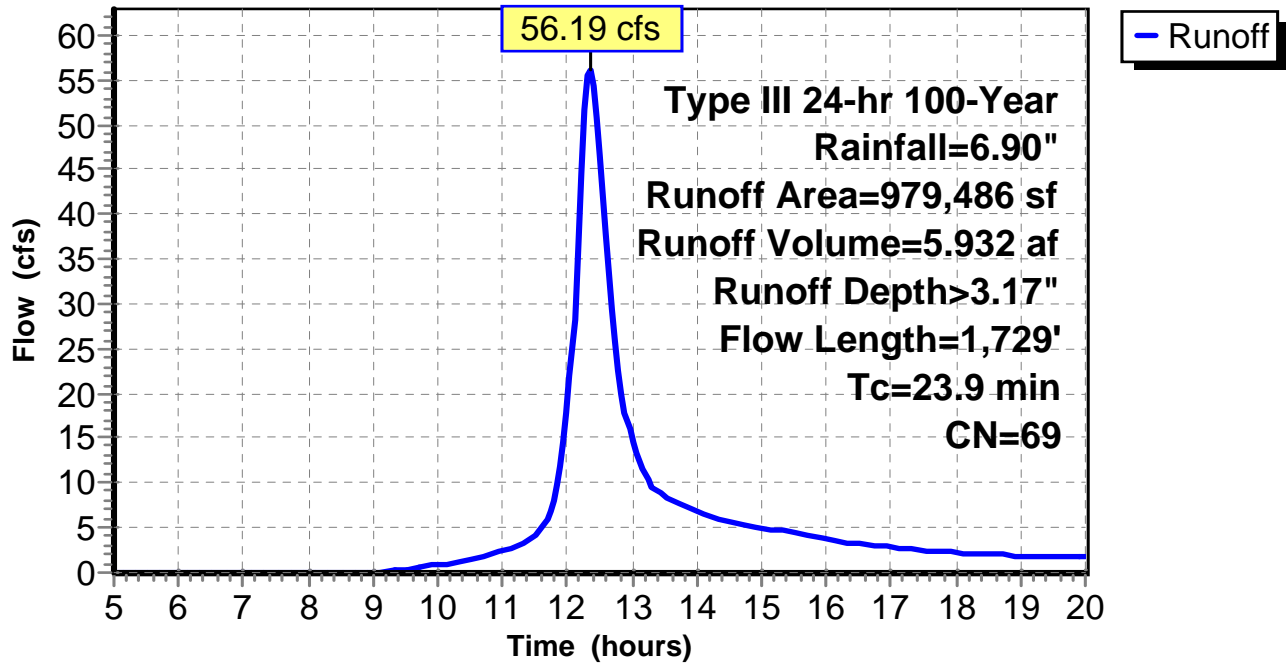
Printed 3/31/2016

Page 56

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	50	0.0200	0.13		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
6.4	726	0.0441	1.89		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
11.3	953	0.0797	1.41		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
23.9	1,729	Total			

## Subcatchment 20S: Drainage Area 20S

### Hydrograph





## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 57

### Summary for Subcatchment 30S: Drainage Area 30S

Runoff = 126.15 cfs @ 12.40 hrs, Volume= 14.845 af, Depth> 4.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 58

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	0	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
665	85	Row crops, straight row, Good, HSG C
*	1,188,822	85 Row crops, straight row, Good, HSG C/D
33,310	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	23,989	Meadow, non-grazed, HSG B
*	0	Meadow, non-grazed, HSG B/D
9,399	71	Meadow, non-grazed, HSG C
*	115,340	Meadow, non-grazed, HSG C/D
13,942	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
2,490	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	641	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
181,042	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
13,965	73	Woods, Fair, HSG C
*	82,828	73 Woods, Fair, HSG C/D
42,854	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	5,446	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	34,318	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
2,987	98	Paved parking, HSG C
*	11,318	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
1,763,356	81	Weighted Average
1,709,287		96.93% Pervious Area
54,069		3.07% Impervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 100-Year Rainfall=6.90"

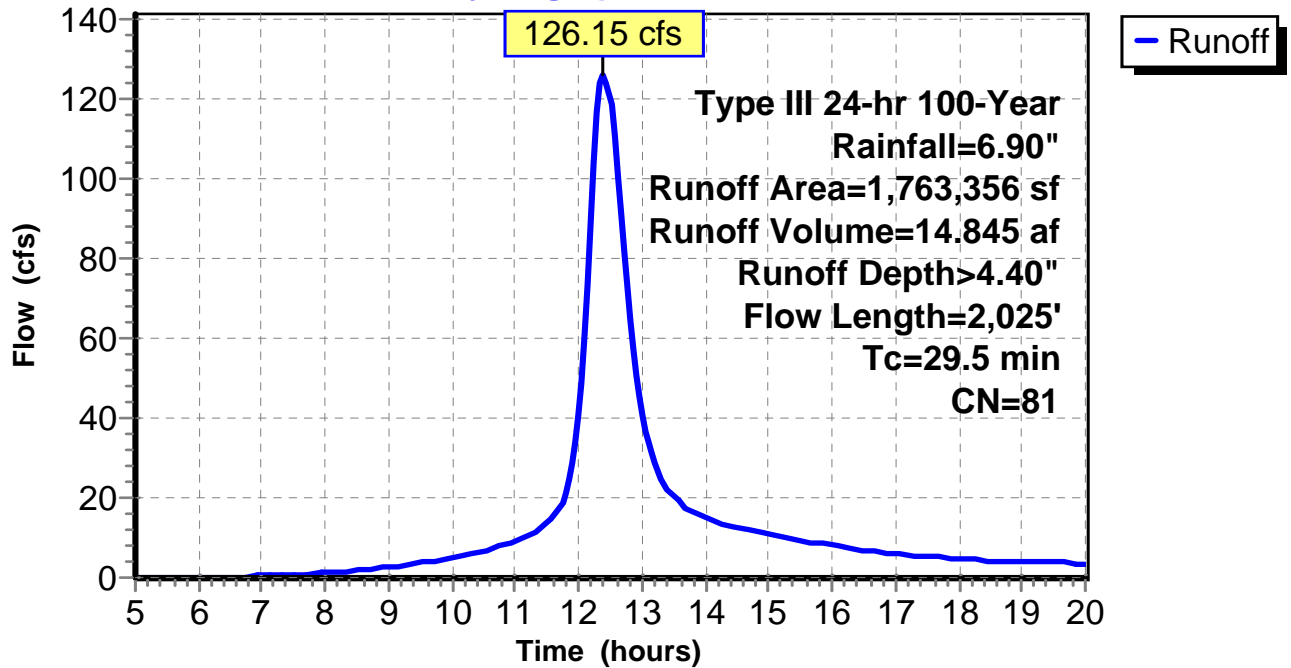
Printed 3/31/2016

Page 59

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	50	0.0150	0.12		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
11.6	1,188	0.0362	1.71		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
10.9	787	0.0577	1.20		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
29.5	2,025	Total			

## Subcatchment 30S: Drainage Area 30S

### Hydrograph





## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 60

### Summary for Subcatchment 40S: Drainage Area 40S

Runoff = 163.41 cfs @ 13.15 hrs, Volume= 33.793 af, Depth> 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"

**Existing Conditions Hydrology**

Prepared by Tighe & Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 61

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
187,953	75	Small grain, straight row, Good, HSG B
* 0	75	Small grain, straight row, Good, HSG B/D
305,031	83	Small grain, straight row, Good, HSG C
* 1,290,370	83	Small grain, straight row, Good, HSG C/D
107,792	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
* 0	78	Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
* 0	85	Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
* 44,928	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
31,396	71	Meadow, non-grazed, HSG C
* 162,114	71	Meadow, non-grazed, HSG C/D
18,415	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
1,654	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
4,831	89	Gravel roads, HSG C
* 17,267	89	Gravel roads, HSG C/D
966	91	Gravel roads, HSG D
7,185	36	Woods, Fair, HSG A
492,897	60	Woods, Fair, HSG B
* 75	60	Woods, Fair, HSG B/D
133,015	73	Woods, Fair, HSG C
* 986,850	73	Woods, Fair, HSG C/D
187,750	79	Woods, Fair, HSG D
* 115	98	Wetlands, HSG A
* 11,508	98	Wetlands, HSG B
* 28,352	98	Wetlands, HSG B/D
* 1,289	98	Wetlands, HSG C
* 188,916	98	Wetlands, HSG C/D
* 194,241	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
754	98	Paved parking, HSG C
* 9,828	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
4,415,492	78	Weighted Average
3,980,489		90.15% Pervious Area
435,003		9.85% Impervious Area

### Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 100-Year Rainfall=6.90"

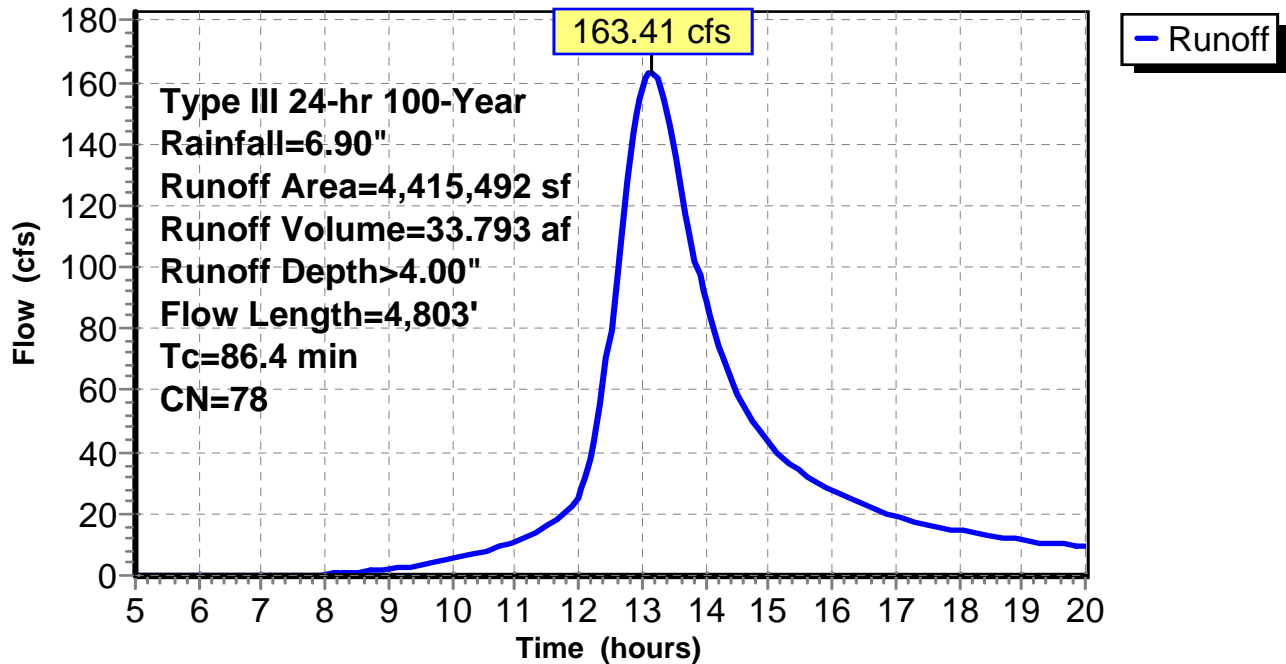
Printed 3/31/2016

Page 62

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0200	0.10		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
13.1	833	0.0228	1.06		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
12.6	674	0.0163	0.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
52.5	3,246	0.0425	1.03		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
86.4	4,803	Total			

### Subcatchment 40S: Drainage Area 40S

#### Hydrograph





## Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 63

### Summary for Subcatchment 50S: Drainage Area 50S

Runoff = 37.80 cfs @ 12.36 hrs, Volume= 4.224 af, Depth> 4.41"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"

**Existing Conditions Hydrology**

Prepared by Tighe & Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 64

Area (sf)	CN	Description
0	63	Small grain, straight row, Good, HSG A
0	75	Small grain, straight row, Good, HSG B
*	0	75 Small grain, straight row, Good, HSG B/D
0	83	Small grain, straight row, Good, HSG C
*	427,001	83 Small grain, straight row, Good, HSG C/D
0	87	Small grain, straight row, Good, HSG D
0	67	Row crops, straight row, Good, HSG A
0	78	Row crops, straight row, Good, HSG B
*	0	78 Row crops, straight row, Good, HSG B/D
0	85	Row crops, straight row, Good, HSG C
*	0	85 Row crops, straight row, Good, HSG C/D
0	89	Row crops, straight row, Good, HSG D
0	30	Meadow, non-grazed, HSG A
*	0	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
*	51,839	71 Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
*	0	89 Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
0	36	Woods, Fair, HSG A
0	60	Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
10,433	73	Woods, Fair, HSG C
*	11,932	73 Woods, Fair, HSG C/D
0	79	Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
0	98	Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
0	98	Paved parking, HSG D
501,205	81	Weighted Average
501,205		100.00% Pervious Area

# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

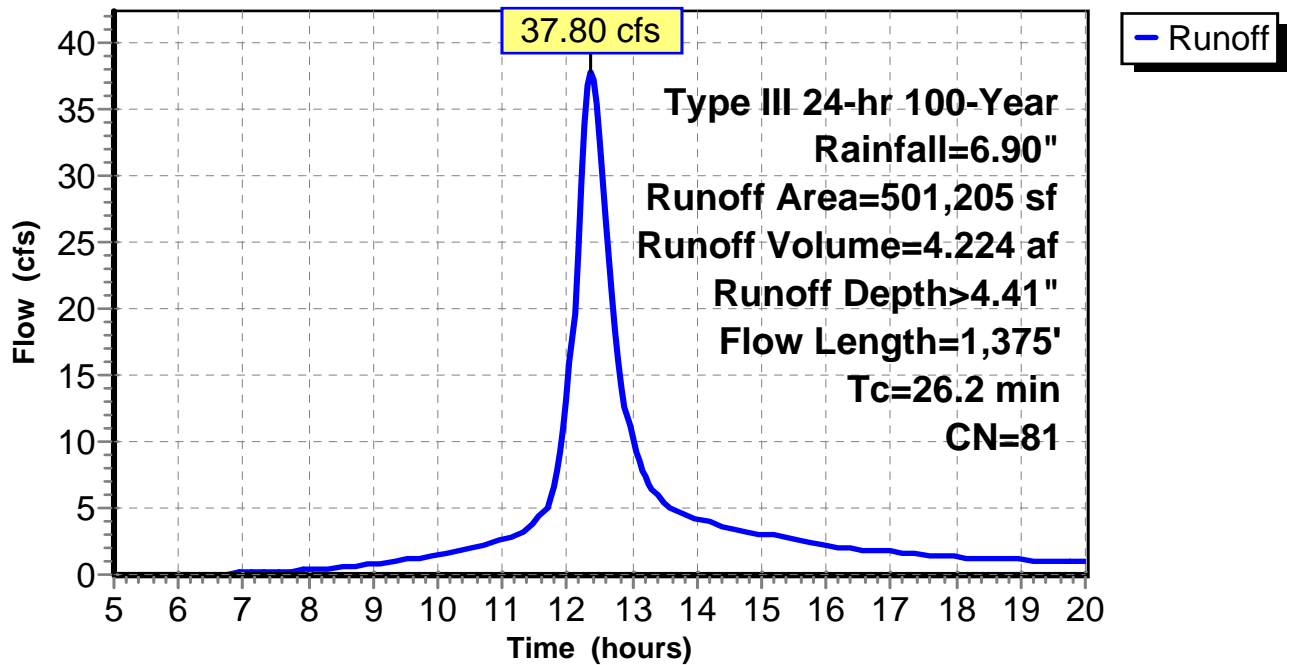
Printed 3/31/2016

Page 65

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0100	0.10		<b>Sheet Flow,</b> Cultivated: Residue>20% n= 0.170 P2= 3.20"
9.8	607	0.0132	1.03		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.2	718	0.0265	1.47		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
26.2	1,375	Total			

## Subcatchment 50S: Drainage Area 50S

### Hydrograph





# Existing Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 66

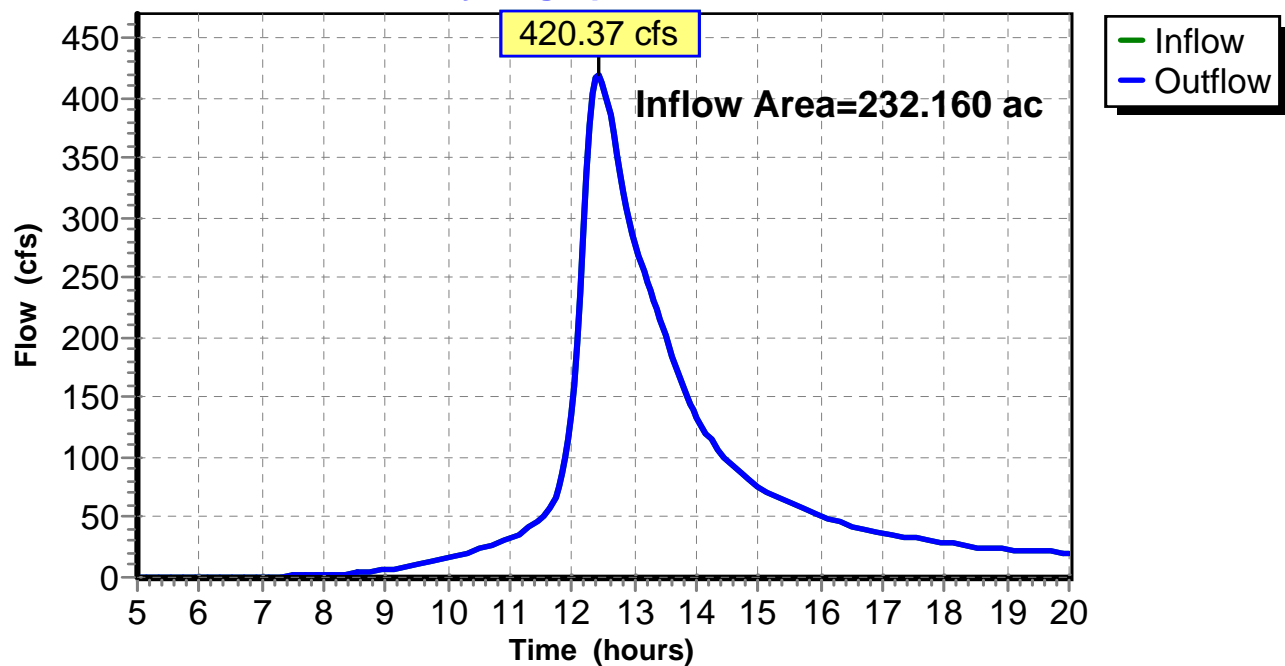
## Summary for Reach Total: Total

Inflow Area = 232.160 ac, 4.86% Impervious, Inflow Depth > 3.90" for 100-Year event  
Inflow = 420.37 cfs @ 12.44 hrs, Volume= 75.496 af  
Outflow = 420.37 cfs @ 12.44 hrs, Volume= 75.496 af, Atten= 0%, Lag= 0.0 min

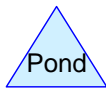
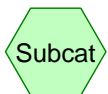
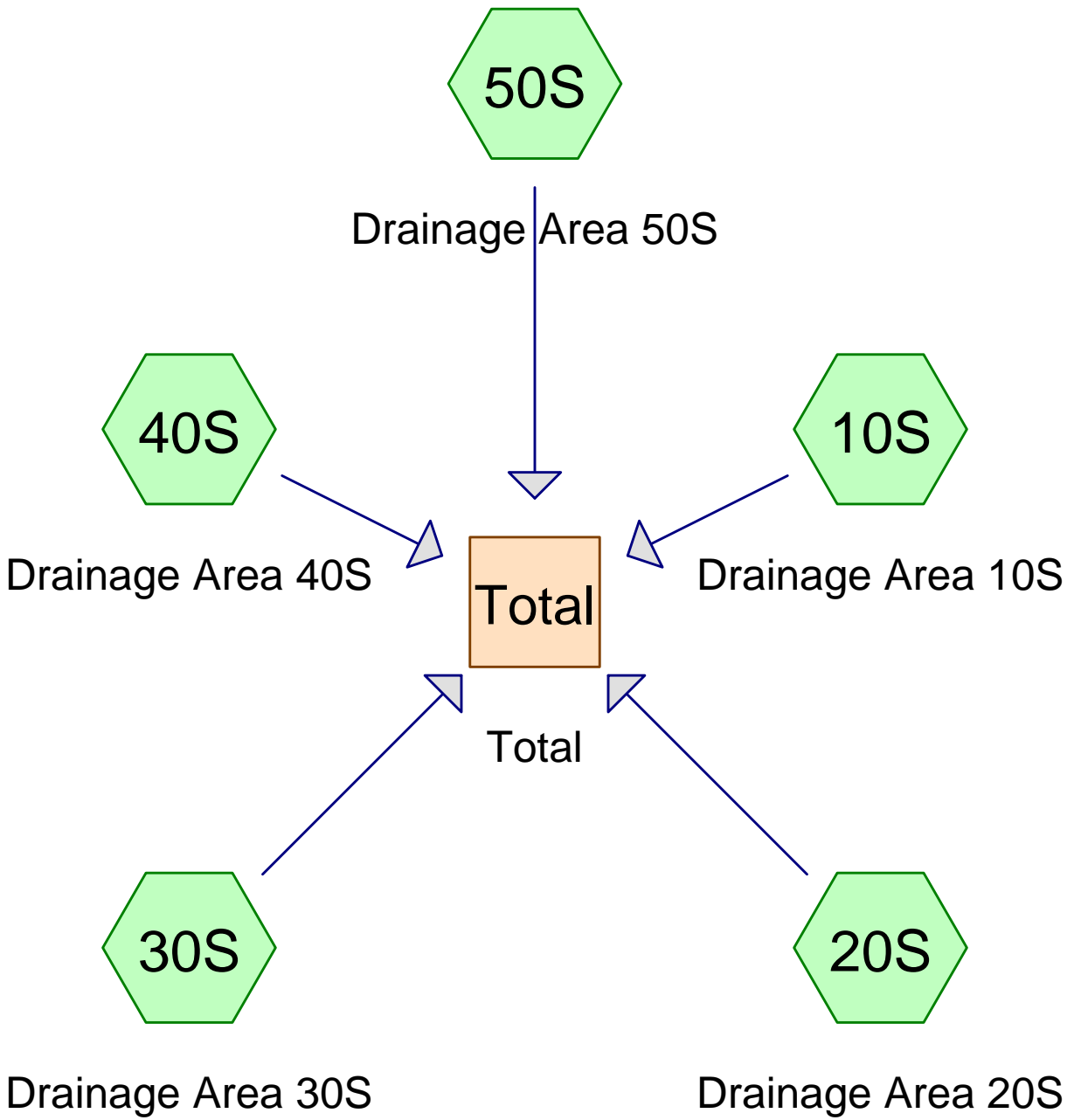
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

### Reach Total: Total

#### Hydrograph



## Proposed Conditions Hydrologic Analysis





**Proposed Conditions Hydrology**

Prepared by Tighe &amp; Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 2

**Area Listing (all nodes)**

Area (acres)	CN	Description (subcatchment-numbers)
0.165	36	Woods, Fair, HSG A (40S)
3.699	58	Meadow, non-grazed, HSG B (10S, 20S, 30S, 40S)
15.357	58	Solar Meadow, HSG B (20S, 30S, 40S)
32.100	60	Woods, Fair, HSG B (10S, 20S, 30S, 40S)
3.690	60	Woods, Fair, HSG B/D (10S, 40S)
2.355	71	Meadow, non-grazed, HSG C (10S, 30S, 40S)
30.168	71	Meadow, non-grazed, HSG C/D (10S, 20S, 30S, 40S, 50S)
7.309	71	Solar Meadow, HSG C (30S, 40S, 50S)
72.741	71	Solar Meadow, HSG C/D (10S, 20S, 30S, 40S, 50S)
2.919	73	Woods, Fair, HSG C (10S, 30S, 40S, 50S)
30.546	73	Woods, Fair, HSG C/D (10S, 20S, 30S, 40S, 50S)
2.011	78	Meadow, non-grazed, HSG D (30S, 40S)
1.807	78	Solar Meadow, HSG D (30S, 40S)
9.611	79	Woods, Fair, HSG D (10S, 20S, 30S, 40S)
0.223	85	Existing Gravel roads, HSG B (10S, 20S, 30S, 40S)
0.032	89	Existing Gravel roads, HSG C (40S)
0.375	89	Existing Gravel roads, HSG C/D (10S, 30S, 40S)
0.075	89	Gravel roads, HSG C (30S, 40S)
1.956	89	Gravel roads, HSG C/D (30S, 40S, 50S)
0.022	91	Existing Gravel roads, HSG D (40S)
0.138	91	Gravel roads, HSG D (40S)
0.042	98	Conc Pad, HSG C (40S)
0.605	98	Conc Pad, HSG C/D (30S, 40S, 50S)
0.026	98	Conc Pad, HSG D (40S)
0.086	98	Paved parking, HSG C (30S, 40S)
0.485	98	Paved parking, HSG C/D (30S, 40S)
0.244	98	Solar Panel, HSG B (20S, 30S, 40S)
0.389	98	Solar Panel, HSG C (40S, 50S)
2.279	98	Solar Panel, HSG C/D (10S, 20S, 30S, 40S, 50S)
0.003	98	Wetlands, HSG A (40S)
0.389	98	Wetlands, HSG B (30S, 40S)
0.651	98	Wetlands, HSG B/D (40S)
0.030	98	Wetlands, HSG C (40S)
4.385	98	Wetlands, HSG C/D (10S, 40S)
5.247	98	Wetlands, HSG D (30S, 40S)
<b>232.160</b>	<b>71</b>	<b>TOTAL AREA</b>

## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 3

### Summary for Subcatchment 10S: Drainage Area 10S

Runoff = 24.45 cfs @ 12.53 hrs, Volume= 3.248 af, Depth> 0.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 4

Area (sf)	CN	Description
0	30	Meadow, non-grazed, HSG A
* 22,165	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
37,022	71	Meadow, non-grazed, HSG C
* 569,524	71	Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
* 0	76	Existing Gravel roads, HSG A
* 2,254	85	Existing Gravel roads, HSG B
* 0	85	Existing Gravel roads, HSG B/D
* 0	89	Existing Gravel roads, HSG C
* 8,341	89	Existing Gravel roads, HSG C/D
* 0	91	Existing Gravel roads, HSG D
0	36	Woods, Fair, HSG A
612,342	60	Woods, Fair, HSG B
* 160,683	60	Woods, Fair, HSG B/D
25,798	73	Woods, Fair, HSG C
* 510,524	73	Woods, Fair, HSG C/D
180,299	79	Woods, Fair, HSG D
* 0	98	Wetlands, HSG A
* 0	98	Wetlands, HSG B
* 0	98	Wetlands, HSG B/D
* 0	98	Wetlands, HSG C
* 2,075	98	Wetlands, HSG C/D
* 0	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
0	98	Paved parking, HSG C
* 0	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
* 0	89	Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
* 0	98	Solar Panel, HSG A
* 0	98	Solar Panel, HSG B
* 0	98	Solar Panel, HSG B/D
* 0	98	Solar Panel, HSG C
* 11,353	98	Solar Panel, HSG C/D
* 0	98	Solar Panel, HSG D
* 0	98	Conc Pad, HSG A
* 0	98	Conc Pad, HSG B
* 0	98	Conc Pad, HSG B/D
* 0	98	Conc Pad, HSG C
* 0	98	Conc Pad, HSG C/D
* 0	98	Conc Pad, HSG D
* 0	30	Solar Meadow, HSG A
* 0	58	Solar Meadow, HSG B
* 0	58	Solar Meadow, HSG B/C



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

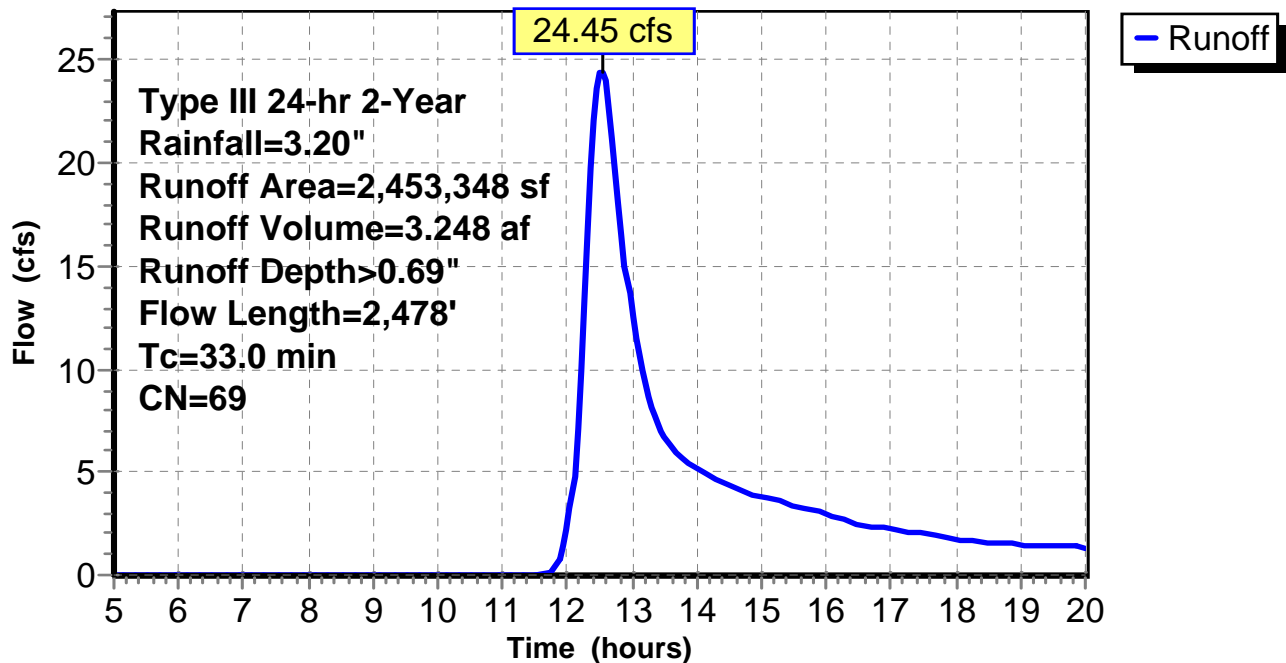
Page 5

*	0	71	Solar Meadow, HSG C
*	310,968	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
	2,453,348	69	Weighted Average
	2,439,920		99.45% Pervious Area
	13,428		0.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0555	0.10		<b>Sheet Flow,</b> Woods: Light underbrush n= 0.400 P2= 3.20"
1.6	110	0.0555	1.18		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
4.5	385	0.0416	1.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	336	0.0179	1.20		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
6.0	685	0.0453	1.92		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.0	912	0.1458	1.91		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
33.0	2,478	Total			

## Subcatchment 10S: Drainage Area 10S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 6

### Summary for Subcatchment 20S: Drainage Area 20S

Runoff = 7.19 cfs @ 12.40 hrs, Volume= 0.919 af, Depth> 0.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 7

Area (sf)	CN	Description
0	30	Meadow, non-grazed, HSG A
* 104,360	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
* 30,235	71	Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
* 0	76	Existing Gravel roads, HSG A
* 5,146	85	Existing Gravel roads, HSG B
* 0	85	Existing Gravel roads, HSG B/D
* 0	89	Existing Gravel roads, HSG C
* 0	89	Existing Gravel roads, HSG C/D
* 0	91	Existing Gravel roads, HSG D
0	36	Woods, Fair, HSG A
421,044	60	Woods, Fair, HSG B
* 0	60	Woods, Fair, HSG B/D
0	73	Woods, Fair, HSG C
* 1,630	73	Woods, Fair, HSG C/D
7,744	79	Woods, Fair, HSG D
* 0	98	Wetlands, HSG A
* 0	98	Wetlands, HSG B
* 0	98	Wetlands, HSG B/D
* 0	98	Wetlands, HSG C
* 0	98	Wetlands, HSG C/D
* 0	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
* 0	98	Paved parking, HSG C
0	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
* 0	89	Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
* 0	98	Solar Panel, HSG A
* 2,218	98	Solar Panel, HSG B
* 0	98	Solar Panel, HSG B/D
* 0	98	Solar Panel, HSG C
* 12,922	98	Solar Panel, HSG C/D
* 0	98	Solar Panel, HSG D
* 0	98	Conc Pad, HSG A
* 0	98	Conc Pad, HSG B
* 0	98	Conc Pad, HSG B/D
* 0	98	Conc Pad, HSG C
* 0	98	Conc Pad, HSG C/D
* 0	98	Conc Pad, HSG D
* 0	30	Solar Meadow, HSG A
* 144,225	58	Solar Meadow, HSG B
* 0	58	Solar Meadow, HSG B/C



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

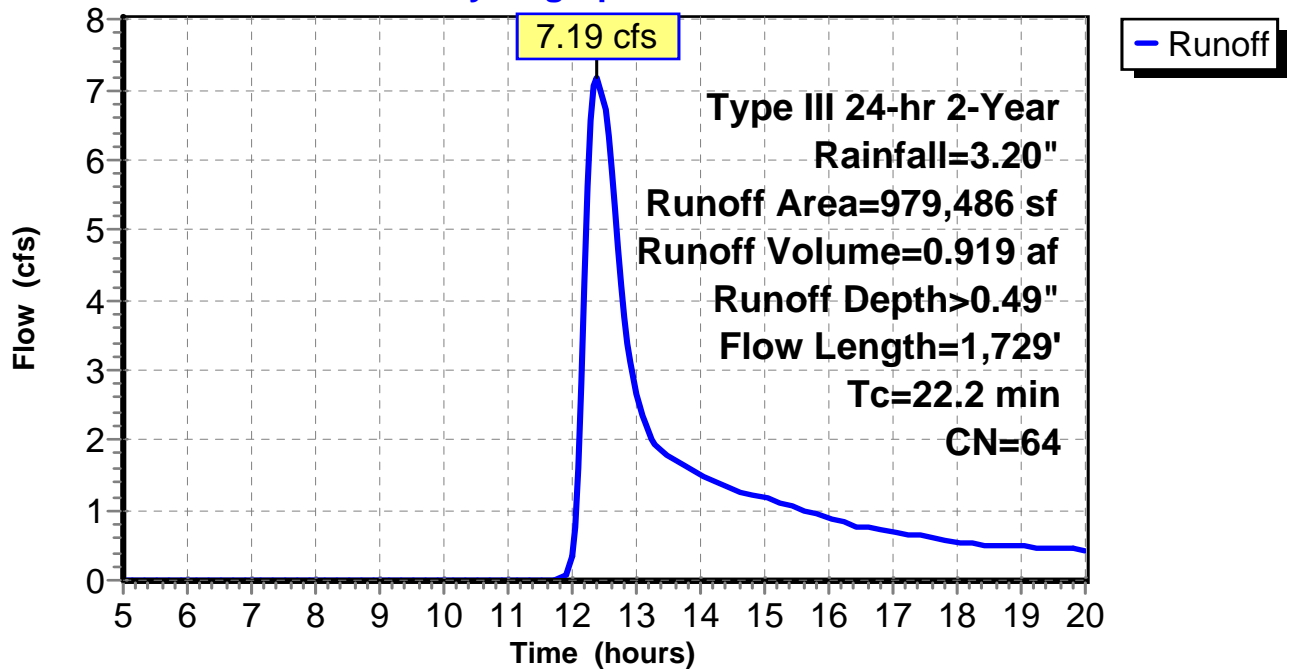
Page 8

*	0	71	Solar Meadow, HSG C
*	249,962	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
<hr/>			
	979,486	64	Weighted Average
	964,346		98.45% Pervious Area
	15,140		1.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	50	0.0200	0.31		<b>Sheet Flow,</b> Cultivated: Residue<=20% n= 0.060 P2= 3.20"
8.2	726	0.0441	1.47		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.3	953	0.0797	1.41		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
22.2	1,729	Total			

## Subcatchment 20S: Drainage Area 20S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 9

### Summary for Subcatchment 30S: Drainage Area 30S

Runoff = 21.80 cfs @ 12.52 hrs, Volume= 2.809 af, Depth> 0.83"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

**Proposed Conditions Hydrology**

Prepared by Tighe &amp; Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 10

	Area (sf)	CN	Description
	0	30	Meadow, non-grazed, HSG A
*	10,416	58	Meadow, non-grazed, HSG B
*	0	58	Meadow, non-grazed, HSG B/D
	9,556	71	Meadow, non-grazed, HSG C
*	309,762	71	Meadow, non-grazed, HSG C/D
	39,913	78	Meadow, non-grazed, HSG D
*	0	76	Existing Gravel roads, HSG A
*	867	85	Existing Gravel roads, HSG B
*	0	85	Existing Gravel roads, HSG B/D
*	0	89	Existing Gravel roads, HSG C
*	521	89	Existing Gravel roads, HSG C/D
*	0	91	Existing Gravel roads, HSG D
	0	36	Woods, Fair, HSG A
	79,826	60	Woods, Fair, HSG B
*	0	60	Woods, Fair, HSG B/D
	7,593	73	Woods, Fair, HSG C
*	36,966	73	Woods, Fair, HSG C/D
	42,854	79	Woods, Fair, HSG D
*	0	98	Wetlands, HSG A
*	5,446	98	Wetlands, HSG B
*	0	98	Wetlands, HSG B/D
*	0	98	Wetlands, HSG C
*	0	98	Wetlands, HSG C/D
*	34,318	98	Wetlands, HSG D
	0	98	Paved parking, HSG A
	0	98	Paved parking, HSG B
*	0	98	Paved parking, HSG B/D
	2,987	98	Paved parking, HSG C
*	11,318	98	Paved parking, HSG C/D
	0	98	Paved parking, HSG D
	0	76	Gravel roads, HSG A
	0	85	Gravel roads, HSG B
*	0	85	Gravel roads, HSG B/D
	1,305	89	Gravel roads, HSG C
*	40,032	89	Gravel roads, HSG C/D
	0	91	Gravel roads, HSG D
*	0	98	Solar Panel, HSG A
*	2,514	98	Solar Panel, HSG B
*	0	98	Solar Panel, HSG B/D
*	0	98	Solar Panel, HSG C
*	22,328	98	Solar Panel, HSG C/D
*	0	98	Solar Panel, HSG D
*	0	98	Conc Pad, HSG A
*	0	98	Conc Pad, HSG B
*	0	98	Conc Pad, HSG B/D
*	0	98	Conc Pad, HSG C
*	7,357	98	Conc Pad, HSG C/D
*	0	98	Conc Pad, HSG D
*	0	30	Solar Meadow, HSG A
*	113,898	58	Solar Meadow, HSG B
*	0	58	Solar Meadow, HSG B/C



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

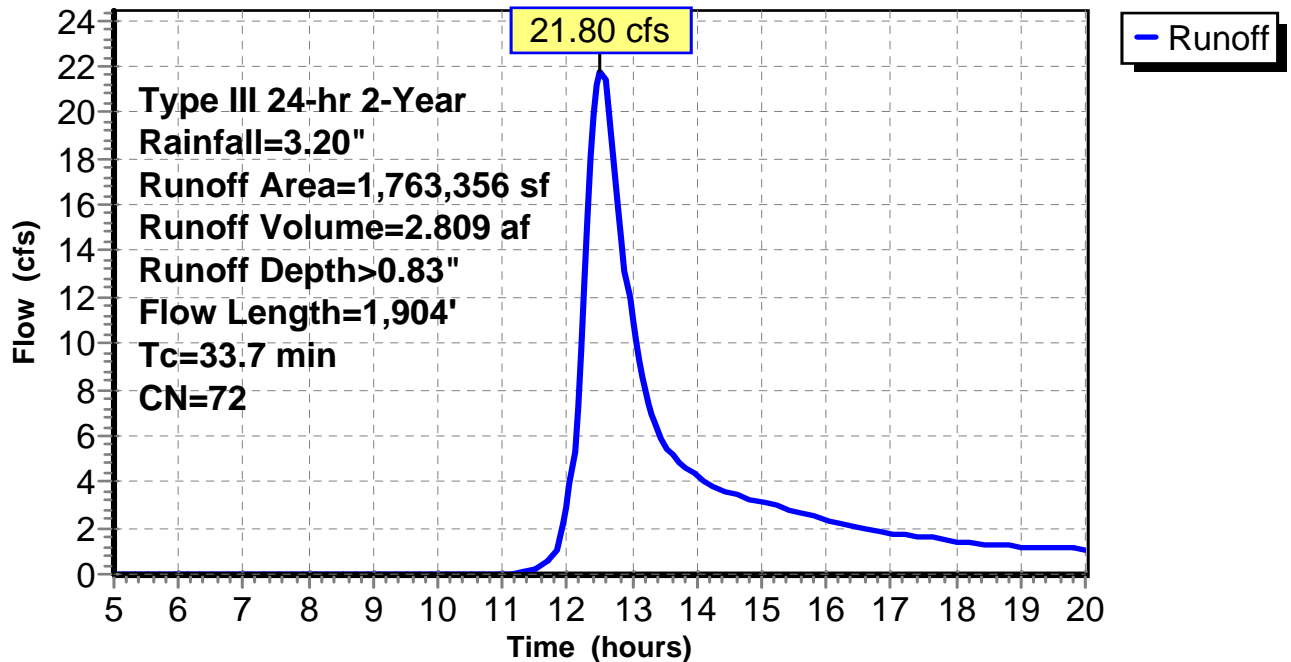
Page 11

*	5,575	71	Solar Meadow, HSG C
*	970,665	71	Solar Meadow, HSG C/D
*	7,339	78	Solar Meadow, HSG D
	1,763,356	72	Weighted Average
	1,677,088		95.11% Pervious Area
	86,268		4.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0150	0.09		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
7.7	576	0.0321	1.25		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	12	0.0321	2.88		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
5.7	479	0.0397	1.39		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.0	787	0.0570	1.19		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
33.7	1,904	Total			

## Subcatchment 30S: Drainage Area 30S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 12

### Summary for Subcatchment 40S: Drainage Area 40S

Runoff = 33.52 cfs @ 13.24 hrs, Volume= 7.256 af, Depth> 0.86"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

**Proposed Conditions Hydrology**

Prepared by Tighe &amp; Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 13

	Area (sf)	CN	Description
	0	30	Meadow, non-grazed, HSG A
*	24,167	58	Meadow, non-grazed, HSG B
*	0	58	Meadow, non-grazed, HSG B/D
	56,000	71	Meadow, non-grazed, HSG C
*	202,090	71	Meadow, non-grazed, HSG C/D
	47,695	78	Meadow, non-grazed, HSG D
*	0	76	Existing Gravel roads, HSG A
*	1,466	85	Existing Gravel roads, HSG B
*	0	85	Existing Gravel roads, HSG B/D
*	1,396	89	Existing Gravel roads, HSG C
*	7,491	89	Existing Gravel roads, HSG C/D
*	966	91	Existing Gravel roads, HSG D
	7,185	36	Woods, Fair, HSG A
	285,061	60	Woods, Fair, HSG B
*	75	60	Woods, Fair, HSG B/D
	90,632	73	Woods, Fair, HSG C
*	780,531	73	Woods, Fair, HSG C/D
	187,750	79	Woods, Fair, HSG D
*	115	98	Wetlands, HSG A
*	11,508	98	Wetlands, HSG B
*	28,352	98	Wetlands, HSG B/D
*	1,289	98	Wetlands, HSG C
*	188,916	98	Wetlands, HSG C/D
*	194,241	98	Wetlands, HSG D
	0	98	Paved parking, HSG A
	0	98	Paved parking, HSG B
*	0	98	Paved parking, HSG B/D
	754	98	Paved parking, HSG C
*	9,828	98	Paved parking, HSG C/D
	0	98	Paved parking, HSG D
	0	76	Gravel roads, HSG A
	0	85	Gravel roads, HSG B
*	0	85	Gravel roads, HSG B/D
	1,942	89	Gravel roads, HSG C
*	27,289	89	Gravel roads, HSG C/D
	6,016	91	Gravel roads, HSG D
*	0	98	Solar Panel, HSG A
*	5,893	98	Solar Panel, HSG B
*	0	98	Solar Panel, HSG B/D
*	15,758	98	Solar Panel, HSG C
*	44,893	98	Solar Panel, HSG C/D
*	0	98	Solar Panel, HSG D
*	0	98	Conc Pad, HSG A
*	0	98	Conc Pad, HSG B
*	0	98	Conc Pad, HSG B/D
*	1,844	98	Conc Pad, HSG C
*	6,013	98	Conc Pad, HSG C/D
*	1,140	98	Conc Pad, HSG D
*	0	30	Solar Meadow, HSG A
*	410,845	58	Solar Meadow, HSG B
*	0	58	Solar Meadow, HSG B/C



**Proposed Conditions Hydrology**

Prepared by Tighe & Bond, Inc.

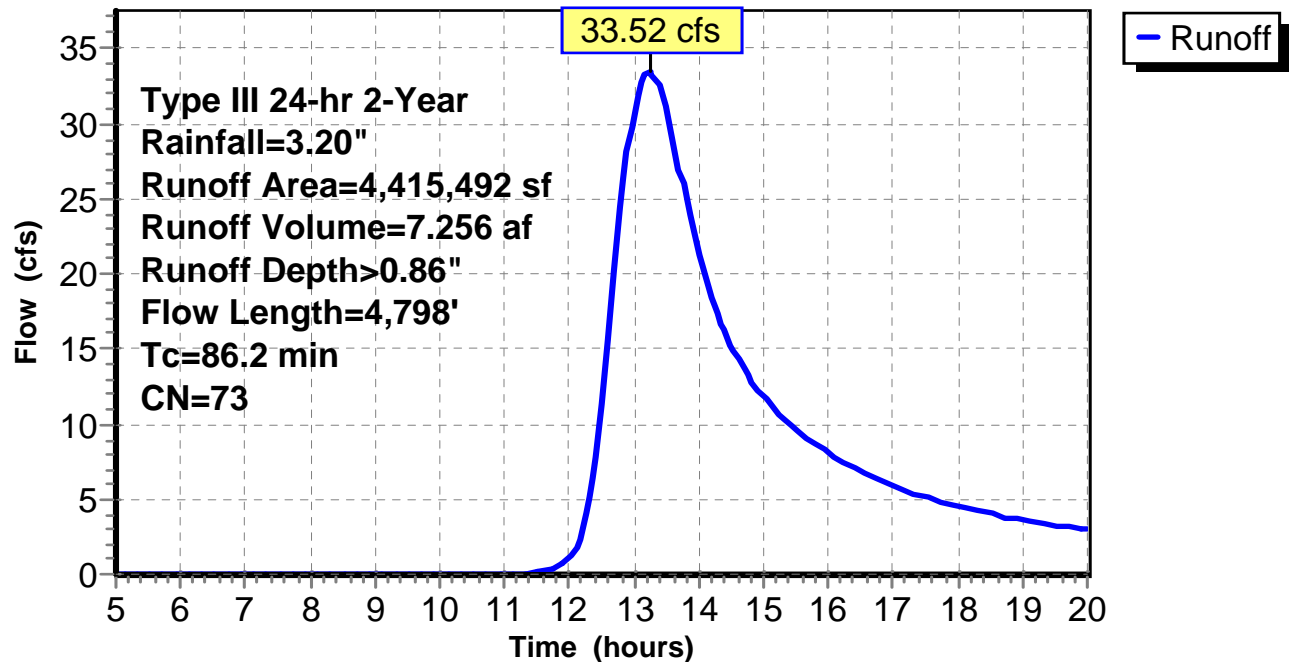
HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

*	306,701	71	Solar Meadow, HSG C
*	1,388,294	71	Solar Meadow, HSG C/D
*	71,356	78	Solar Meadow, HSG D
	4,415,492	73	Weighted Average
	3,904,948		88.44% Pervious Area
	510,544		11.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0200	0.10		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
13.1	833	0.0228	1.06		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	12	0.0228	2.43		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
12.3	657	0.0163	0.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
52.5	3,246	0.0425	1.03		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
86.2	4,798	Total			

**Subcatchment 40S: Drainage Area 40S**

**Hydrograph**



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 15

### Summary for Subcatchment 50S: Drainage Area 50S

Runoff = 8.26 cfs @ 12.31 hrs, Volume= 0.852 af, Depth> 0.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 2-Year Rainfall=3.20"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 16

Area (sf)	CN	Description
	0	30 Meadow, non-grazed, HSG A
*	0	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
	0	71 Meadow, non-grazed, HSG C
*	202,519	71 Meadow, non-grazed, HSG C/D
	0	78 Meadow, non-grazed, HSG D
*	0	76 Existing Gravel roads, HSG A
*	0	85 Existing Gravel roads, HSG B
*	0	85 Existing Gravel roads, HSG B/D
*	0	89 Existing Gravel roads, HSG C
*	0	89 Existing Gravel roads, HSG C/D
*	0	91 Existing Gravel roads, HSG D
	0	36 Woods, Fair, HSG A
	0	60 Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
	3,138	73 Woods, Fair, HSG C
*	923	73 Woods, Fair, HSG C/D
	0	79 Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
	0	98 Paved parking, HSG A
	0	98 Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
	0	98 Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
	0	98 Paved parking, HSG D
	0	76 Gravel roads, HSG A
	0	85 Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
	0	89 Gravel roads, HSG C
*	17,873	89 Gravel roads, HSG C/D
	0	91 Gravel roads, HSG D
*	0	98 Solar Panel, HSG A
*	0	98 Solar Panel, HSG B
*	0	98 Solar Panel, HSG B/D
*	1,171	98 Solar Panel, HSG C
*	7,768	98 Solar Panel, HSG C/D
*	0	98 Solar Panel, HSG D
*	0	98 Conc Pad, HSG A
*	0	98 Conc Pad, HSG B
*	0	98 Conc Pad, HSG B/D
*	0	98 Conc Pad, HSG C
*	12,977	98 Conc Pad, HSG C/D
*	0	98 Conc Pad, HSG D
*	0	30 Solar Meadow, HSG A
*	0	58 Solar Meadow, HSG B
*	0	58 Solar Meadow, HSG B/C



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

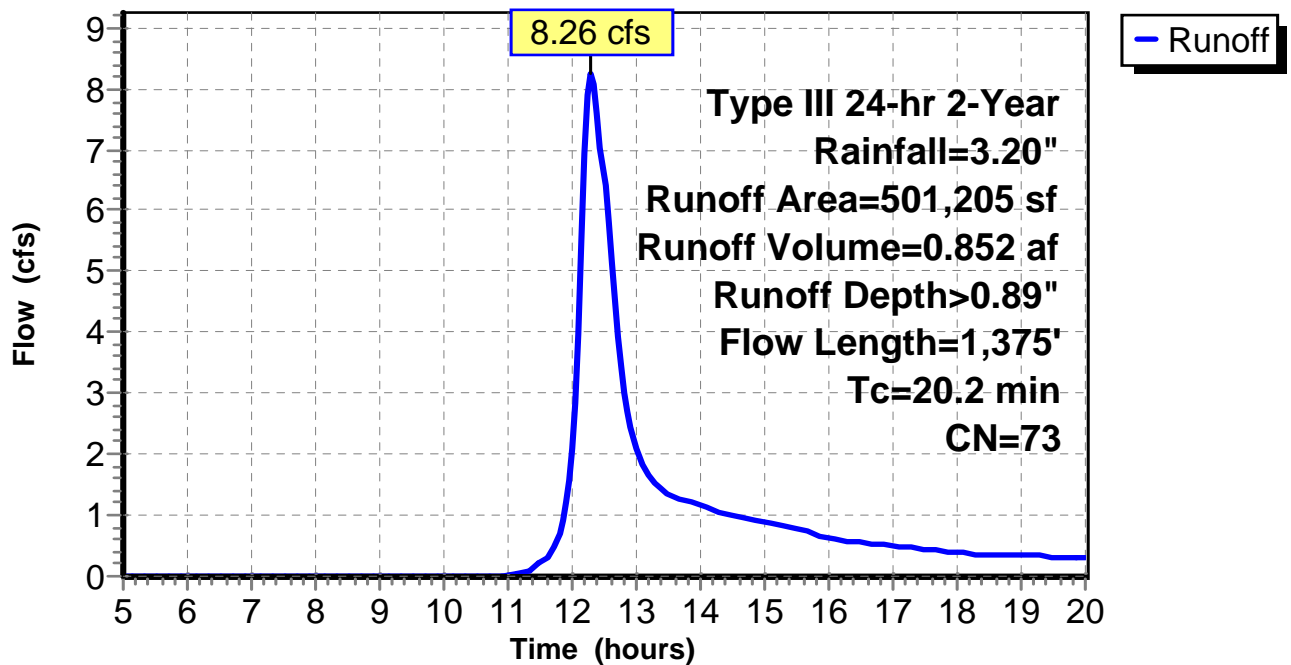
Page 17

*	6,124	71	Solar Meadow, HSG C
*	248,712	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
	501,205	73	Weighted Average
	479,289		95.63% Pervious Area
	21,916		4.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	50	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
12.6	607	0.0132	0.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.3	718	0.2650	3.60		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
20.2	1,375	Total			

## Subcatchment 50S: Drainage Area 50S

### Hydrograph



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 2-Year Rainfall=3.20"

Printed 3/31/2016

Page 18

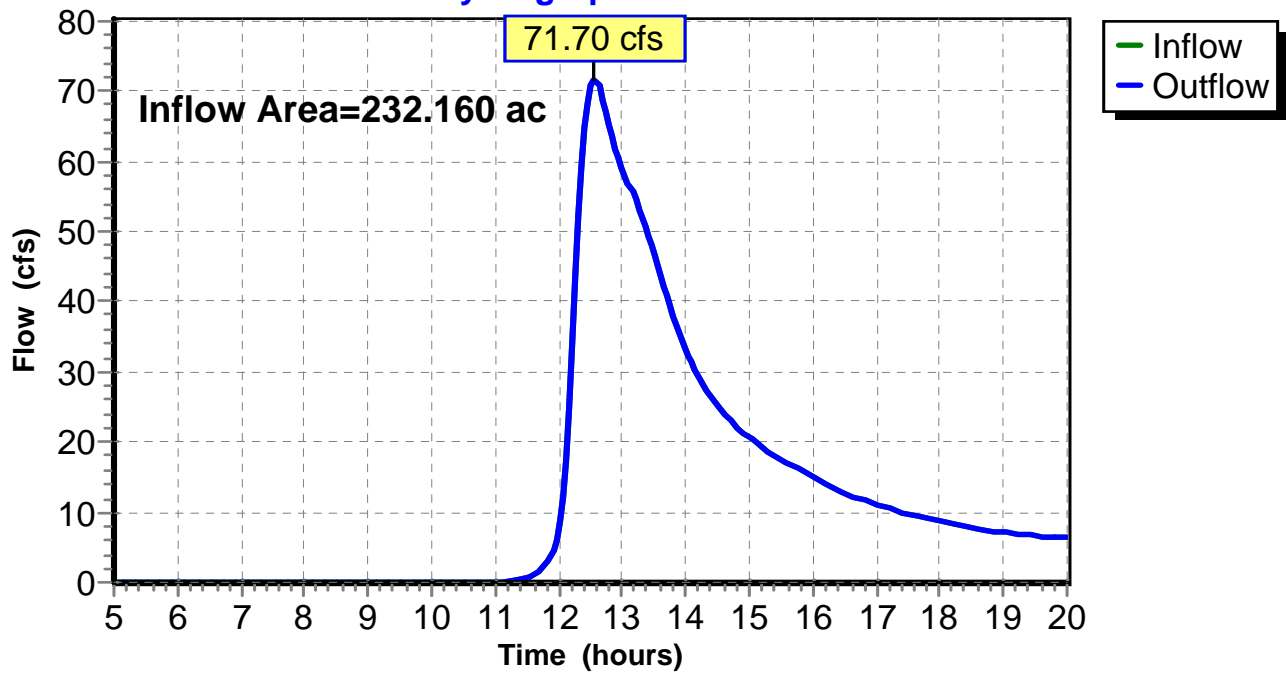
## Summary for Reach Total: Total

Inflow Area = 232.160 ac, 6.40% Impervious, Inflow Depth > 0.78" for 2-Year event  
Inflow = 71.70 cfs @ 12.57 hrs, Volume= 15.083 af  
Outflow = 71.70 cfs @ 12.57 hrs, Volume= 15.083 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

### Reach Total: Total

#### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 19

### Summary for Subcatchment 10S: Drainage Area 10S

Runoff = 62.71 cfs @ 12.49 hrs, Volume= 7.724 af, Depth> 1.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 20

Area (sf)	CN	Description
0	30	Meadow, non-grazed, HSG A
* 22,165	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
37,022	71	Meadow, non-grazed, HSG C
* 569,524	71	Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
* 0	76	Existing Gravel roads, HSG A
* 2,254	85	Existing Gravel roads, HSG B
* 0	85	Existing Gravel roads, HSG B/D
* 0	89	Existing Gravel roads, HSG C
* 8,341	89	Existing Gravel roads, HSG C/D
* 0	91	Existing Gravel roads, HSG D
0	36	Woods, Fair, HSG A
612,342	60	Woods, Fair, HSG B
* 160,683	60	Woods, Fair, HSG B/D
25,798	73	Woods, Fair, HSG C
* 510,524	73	Woods, Fair, HSG C/D
180,299	79	Woods, Fair, HSG D
* 0	98	Wetlands, HSG A
* 0	98	Wetlands, HSG B
* 0	98	Wetlands, HSG B/D
* 0	98	Wetlands, HSG C
* 2,075	98	Wetlands, HSG C/D
* 0	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
* 0	98	Paved parking, HSG C
* 0	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
* 0	89	Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
* 0	98	Solar Panel, HSG A
* 0	98	Solar Panel, HSG B
* 0	98	Solar Panel, HSG B/D
* 0	98	Solar Panel, HSG C
* 11,353	98	Solar Panel, HSG C/D
* 0	98	Solar Panel, HSG D
* 0	98	Conc Pad, HSG A
* 0	98	Conc Pad, HSG B
* 0	98	Conc Pad, HSG B/D
* 0	98	Conc Pad, HSG C
* 0	98	Conc Pad, HSG C/D
* 0	98	Conc Pad, HSG D
* 0	30	Solar Meadow, HSG A
* 0	58	Solar Meadow, HSG B
* 0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

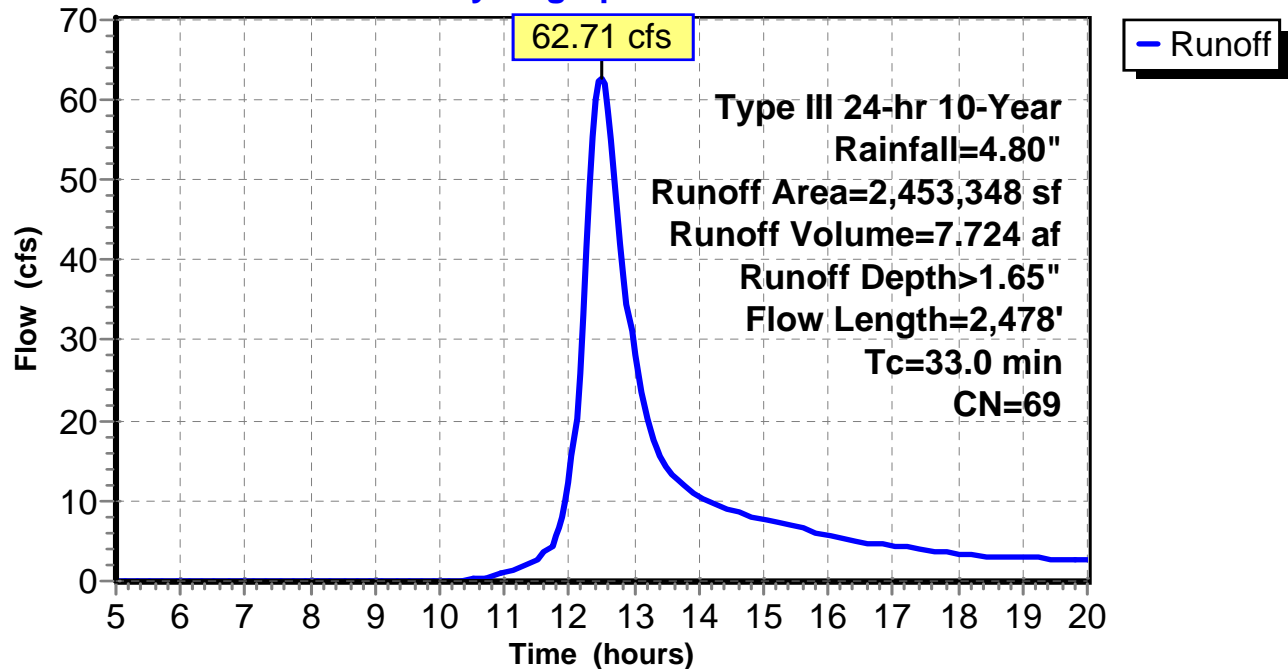
Page 21

*	0	71	Solar Meadow, HSG C
*	310,968	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
	2,453,348	69	Weighted Average
	2,439,920		99.45% Pervious Area
	13,428		0.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0555	0.10		<b>Sheet Flow,</b> Woods: Light underbrush n= 0.400 P2= 3.20"
1.6	110	0.0555	1.18		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
4.5	385	0.0416	1.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	336	0.0179	1.20		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
6.0	685	0.0453	1.92		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.0	912	0.1458	1.91		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
33.0	2,478	Total			

## Subcatchment 10S: Drainage Area 10S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 22

### Summary for Subcatchment 20S: Drainage Area 20S

Runoff = 22.85 cfs @ 12.34 hrs, Volume= 2.456 af, Depth> 1.31"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 23

Area (sf)	CN	Description
0	30	Meadow, non-grazed, HSG A
* 104,360	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
* 30,235	71	Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
* 0	76	Existing Gravel roads, HSG A
* 5,146	85	Existing Gravel roads, HSG B
* 0	85	Existing Gravel roads, HSG B/D
* 0	89	Existing Gravel roads, HSG C
* 0	89	Existing Gravel roads, HSG C/D
* 0	91	Existing Gravel roads, HSG D
0	36	Woods, Fair, HSG A
421,044	60	Woods, Fair, HSG B
* 0	60	Woods, Fair, HSG B/D
0	73	Woods, Fair, HSG C
* 1,630	73	Woods, Fair, HSG C/D
7,744	79	Woods, Fair, HSG D
* 0	98	Wetlands, HSG A
* 0	98	Wetlands, HSG B
* 0	98	Wetlands, HSG B/D
* 0	98	Wetlands, HSG C
* 0	98	Wetlands, HSG C/D
* 0	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
* 0	98	Paved parking, HSG C
0	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
* 0	89	Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
* 0	98	Solar Panel, HSG A
* 2,218	98	Solar Panel, HSG B
* 0	98	Solar Panel, HSG B/D
* 0	98	Solar Panel, HSG C
* 12,922	98	Solar Panel, HSG C/D
* 0	98	Solar Panel, HSG D
* 0	98	Conc Pad, HSG A
* 0	98	Conc Pad, HSG B
* 0	98	Conc Pad, HSG B/D
* 0	98	Conc Pad, HSG C
* 0	98	Conc Pad, HSG C/D
* 0	98	Conc Pad, HSG D
* 0	30	Solar Meadow, HSG A
* 144,225	58	Solar Meadow, HSG B
* 0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

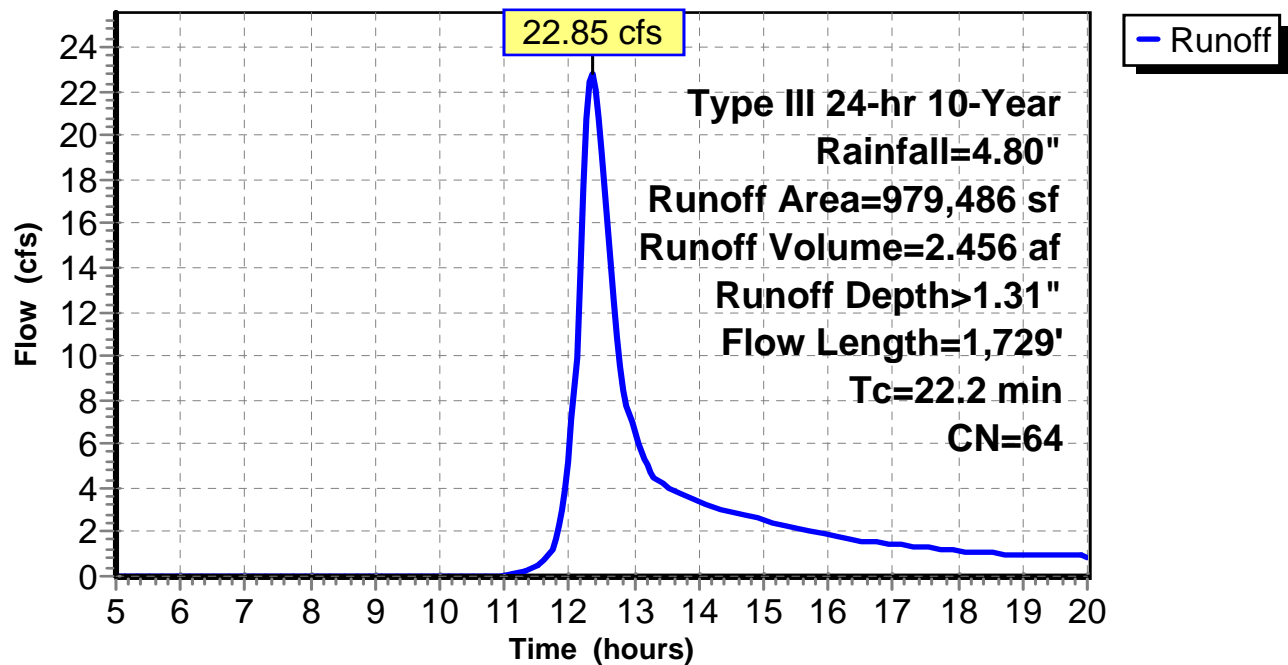
Page 24

*	0	71	Solar Meadow, HSG C
*	249,962	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
<hr/>			
	979,486	64	Weighted Average
	964,346		98.45% Pervious Area
	15,140		1.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	50	0.0200	0.31		<b>Sheet Flow,</b> Cultivated: Residue<=20% n= 0.060 P2= 3.20"
8.2	726	0.0441	1.47		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.3	953	0.0797	1.41		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
<hr/>					
22.2	1,729	Total			

## Subcatchment 20S: Drainage Area 20S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 25

### Summary for Subcatchment 30S: Drainage Area 30S

Runoff = 51.10 cfs @ 12.49 hrs, Volume= 6.295 af, Depth> 1.87"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 26

	Area (sf)	CN	Description
	0	30	Meadow, non-grazed, HSG A
*	10,416	58	Meadow, non-grazed, HSG B
*	0	58	Meadow, non-grazed, HSG B/D
	9,556	71	Meadow, non-grazed, HSG C
*	309,762	71	Meadow, non-grazed, HSG C/D
	39,913	78	Meadow, non-grazed, HSG D
*	0	76	Existing Gravel roads, HSG A
*	867	85	Existing Gravel roads, HSG B
*	0	85	Existing Gravel roads, HSG B/D
*	0	89	Existing Gravel roads, HSG C
*	521	89	Existing Gravel roads, HSG C/D
*	0	91	Existing Gravel roads, HSG D
	0	36	Woods, Fair, HSG A
	79,826	60	Woods, Fair, HSG B
*	0	60	Woods, Fair, HSG B/D
	7,593	73	Woods, Fair, HSG C
*	36,966	73	Woods, Fair, HSG C/D
	42,854	79	Woods, Fair, HSG D
*	0	98	Wetlands, HSG A
*	5,446	98	Wetlands, HSG B
*	0	98	Wetlands, HSG B/D
*	0	98	Wetlands, HSG C
*	0	98	Wetlands, HSG C/D
*	34,318	98	Wetlands, HSG D
	0	98	Paved parking, HSG A
	0	98	Paved parking, HSG B
*	0	98	Paved parking, HSG B/D
	2,987	98	Paved parking, HSG C
*	11,318	98	Paved parking, HSG C/D
	0	98	Paved parking, HSG D
	0	76	Gravel roads, HSG A
	0	85	Gravel roads, HSG B
*	0	85	Gravel roads, HSG B/D
	1,305	89	Gravel roads, HSG C
*	40,032	89	Gravel roads, HSG C/D
	0	91	Gravel roads, HSG D
*	0	98	Solar Panel, HSG A
*	2,514	98	Solar Panel, HSG B
*	0	98	Solar Panel, HSG B/D
*	0	98	Solar Panel, HSG C
*	22,328	98	Solar Panel, HSG C/D
*	0	98	Solar Panel, HSG D
*	0	98	Conc Pad, HSG A
*	0	98	Conc Pad, HSG B
*	0	98	Conc Pad, HSG B/D
*	0	98	Conc Pad, HSG C
*	7,357	98	Conc Pad, HSG C/D
*	0	98	Conc Pad, HSG D
*	0	30	Solar Meadow, HSG A
*	113,898	58	Solar Meadow, HSG B
*	0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

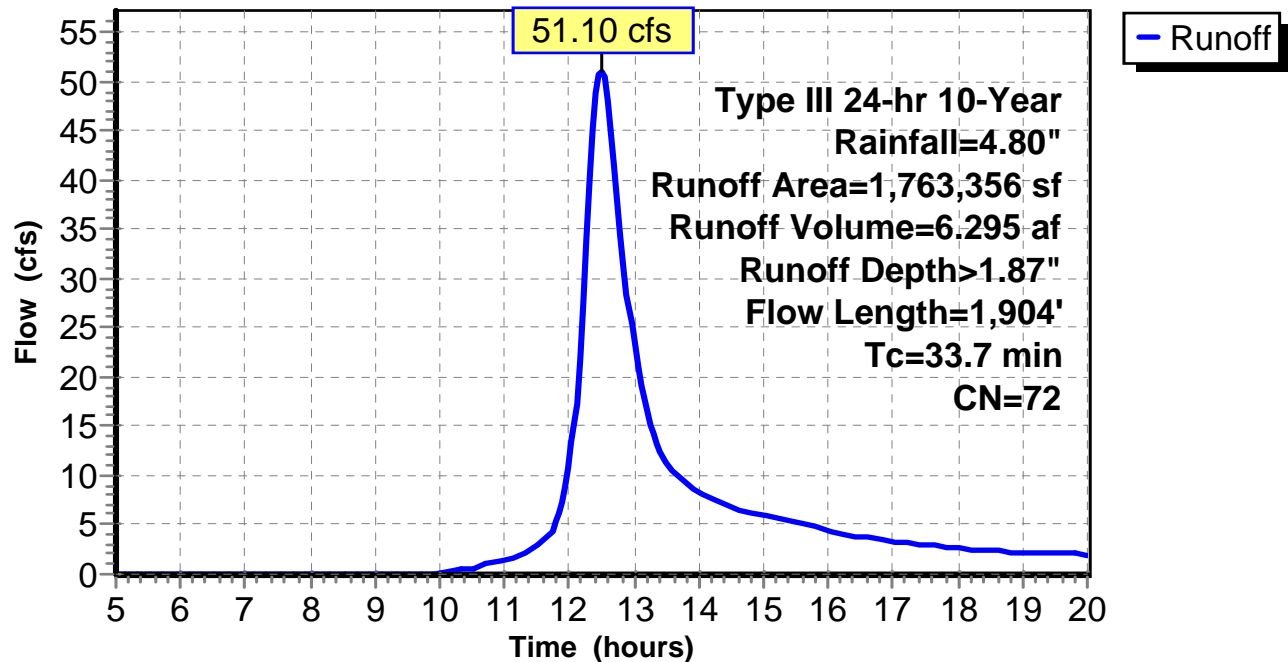
Page 27

*	5,575	71	Solar Meadow, HSG C
*	970,665	71	Solar Meadow, HSG C/D
*	7,339	78	Solar Meadow, HSG D
	1,763,356	72	Weighted Average
	1,677,088		95.11% Pervious Area
	86,268		4.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0150	0.09		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
7.7	576	0.0321	1.25		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	12	0.0321	2.88		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
5.7	479	0.0397	1.39		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.0	787	0.0570	1.19		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
33.7	1,904	Total			

## Subcatchment 30S: Drainage Area 30S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 28

### Summary for Subcatchment 40S: Drainage Area 40S

Runoff = 77.45 cfs @ 13.17 hrs, Volume= 16.038 af, Depth> 1.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 29

	Area (sf)	CN	Description
	0	30	Meadow, non-grazed, HSG A
*	24,167	58	Meadow, non-grazed, HSG B
*	0	58	Meadow, non-grazed, HSG B/D
	56,000	71	Meadow, non-grazed, HSG C
*	202,090	71	Meadow, non-grazed, HSG C/D
	47,695	78	Meadow, non-grazed, HSG D
*	0	76	Existing Gravel roads, HSG A
*	1,466	85	Existing Gravel roads, HSG B
*	0	85	Existing Gravel roads, HSG B/D
*	1,396	89	Existing Gravel roads, HSG C
*	7,491	89	Existing Gravel roads, HSG C/D
*	966	91	Existing Gravel roads, HSG D
	7,185	36	Woods, Fair, HSG A
	285,061	60	Woods, Fair, HSG B
*	75	60	Woods, Fair, HSG B/D
	90,632	73	Woods, Fair, HSG C
*	780,531	73	Woods, Fair, HSG C/D
	187,750	79	Woods, Fair, HSG D
*	115	98	Wetlands, HSG A
*	11,508	98	Wetlands, HSG B
*	28,352	98	Wetlands, HSG B/D
*	1,289	98	Wetlands, HSG C
*	188,916	98	Wetlands, HSG C/D
*	194,241	98	Wetlands, HSG D
	0	98	Paved parking, HSG A
	0	98	Paved parking, HSG B
*	0	98	Paved parking, HSG B/D
	754	98	Paved parking, HSG C
*	9,828	98	Paved parking, HSG C/D
	0	98	Paved parking, HSG D
	0	76	Gravel roads, HSG A
	0	85	Gravel roads, HSG B
*	0	85	Gravel roads, HSG B/D
	1,942	89	Gravel roads, HSG C
*	27,289	89	Gravel roads, HSG C/D
	6,016	91	Gravel roads, HSG D
*	0	98	Solar Panel, HSG A
*	5,893	98	Solar Panel, HSG B
*	0	98	Solar Panel, HSG B/D
*	15,758	98	Solar Panel, HSG C
*	44,893	98	Solar Panel, HSG C/D
*	0	98	Solar Panel, HSG D
*	0	98	Conc Pad, HSG A
*	0	98	Conc Pad, HSG B
*	0	98	Conc Pad, HSG B/D
*	1,844	98	Conc Pad, HSG C
*	6,013	98	Conc Pad, HSG C/D
*	1,140	98	Conc Pad, HSG D
*	0	30	Solar Meadow, HSG A
*	410,845	58	Solar Meadow, HSG B
*	0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

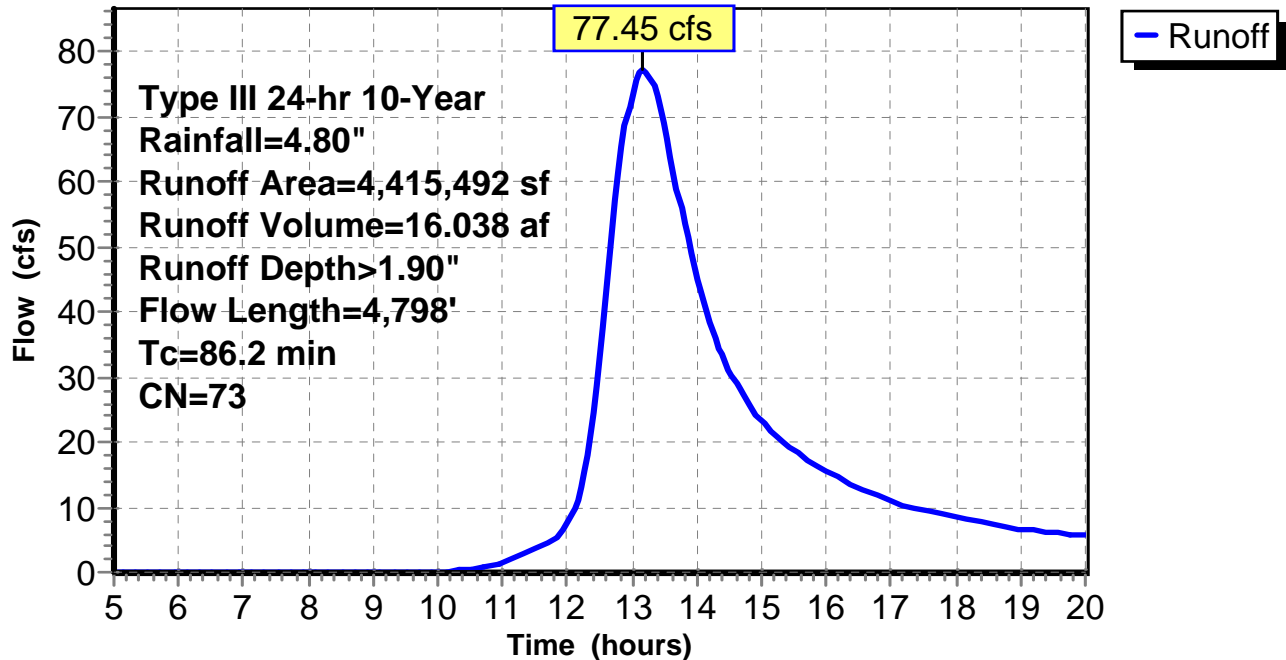
Page 30

*	306,701	71	Solar Meadow, HSG C
*	1,388,294	71	Solar Meadow, HSG C/D
*	71,356	78	Solar Meadow, HSG D
	4,415,492	73	Weighted Average
	3,904,948		88.44% Pervious Area
	510,544		11.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0200	0.10		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
13.1	833	0.0228	1.06		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	12	0.0228	2.43		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
12.3	657	0.0163	0.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
52.5	3,246	0.0425	1.03		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
86.2	4,798	Total			

## Subcatchment 40S: Drainage Area 40S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 31

### Summary for Subcatchment 50S: Drainage Area 50S

Runoff = 18.92 cfs @ 12.29 hrs, Volume= 1.872 af, Depth> 1.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 10-Year Rainfall=4.80"



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 32

Area (sf)	CN	Description
	0	30 Meadow, non-grazed, HSG A
*	0	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
	0	71 Meadow, non-grazed, HSG C
*	202,519	71 Meadow, non-grazed, HSG C/D
	0	78 Meadow, non-grazed, HSG D
*	0	76 Existing Gravel roads, HSG A
*	0	85 Existing Gravel roads, HSG B
*	0	85 Existing Gravel roads, HSG B/D
*	0	89 Existing Gravel roads, HSG C
*	0	89 Existing Gravel roads, HSG C/D
*	0	91 Existing Gravel roads, HSG D
	0	36 Woods, Fair, HSG A
	0	60 Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
	3,138	73 Woods, Fair, HSG C
*	923	73 Woods, Fair, HSG C/D
	0	79 Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
	0	98 Paved parking, HSG A
	0	98 Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
	0	98 Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
	0	98 Paved parking, HSG D
	0	76 Gravel roads, HSG A
	0	85 Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
	0	89 Gravel roads, HSG C
*	17,873	89 Gravel roads, HSG C/D
	0	91 Gravel roads, HSG D
*	0	98 Solar Panel, HSG A
*	0	98 Solar Panel, HSG B
*	0	98 Solar Panel, HSG B/D
*	1,171	98 Solar Panel, HSG C
*	7,768	98 Solar Panel, HSG C/D
*	0	98 Solar Panel, HSG D
*	0	98 Conc Pad, HSG A
*	0	98 Conc Pad, HSG B
*	0	98 Conc Pad, HSG B/D
*	0	98 Conc Pad, HSG C
*	12,977	98 Conc Pad, HSG C/D
*	0	98 Conc Pad, HSG D
*	0	30 Solar Meadow, HSG A
*	0	58 Solar Meadow, HSG B
*	0	58 Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

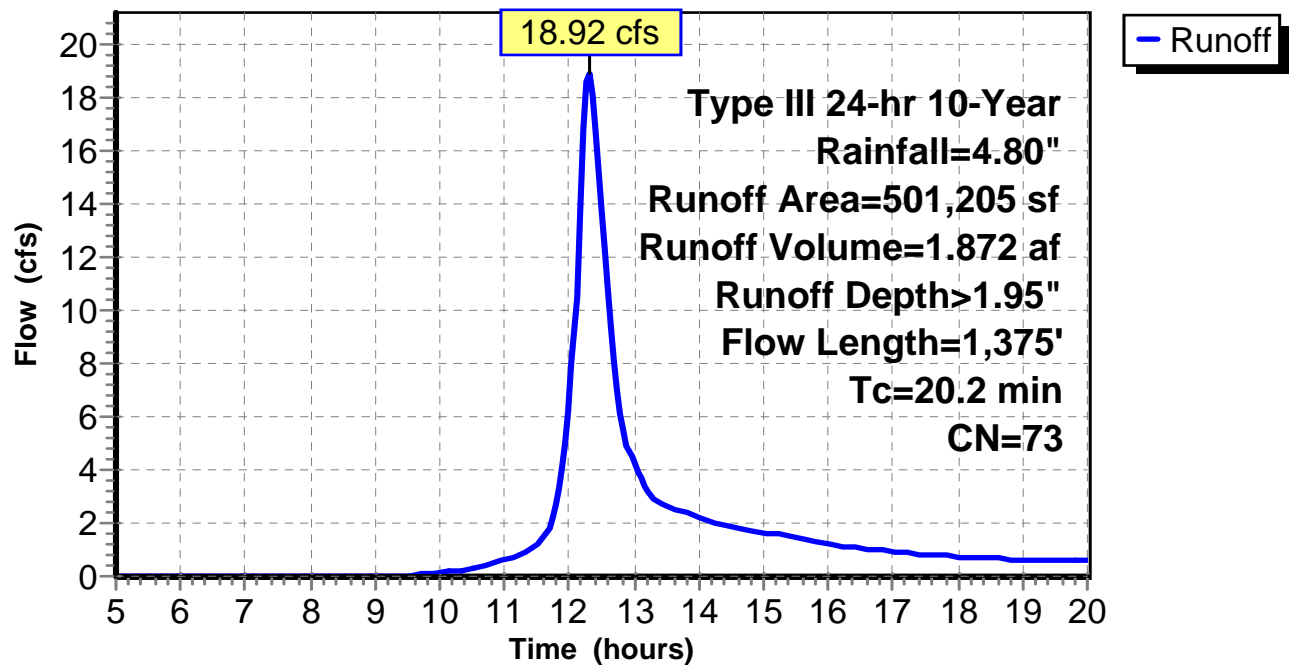
Page 33

*	6,124	71	Solar Meadow, HSG C
*	248,712	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
	501,205	73	Weighted Average
	479,289		95.63% Pervious Area
	21,916		4.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	50	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
12.6	607	0.0132	0.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.3	718	0.2650	3.60		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
20.2	1,375	Total			

## Subcatchment 50S: Drainage Area 50S

### Hydrograph



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 10-Year Rainfall=4.80"

Printed 3/31/2016

Page 34

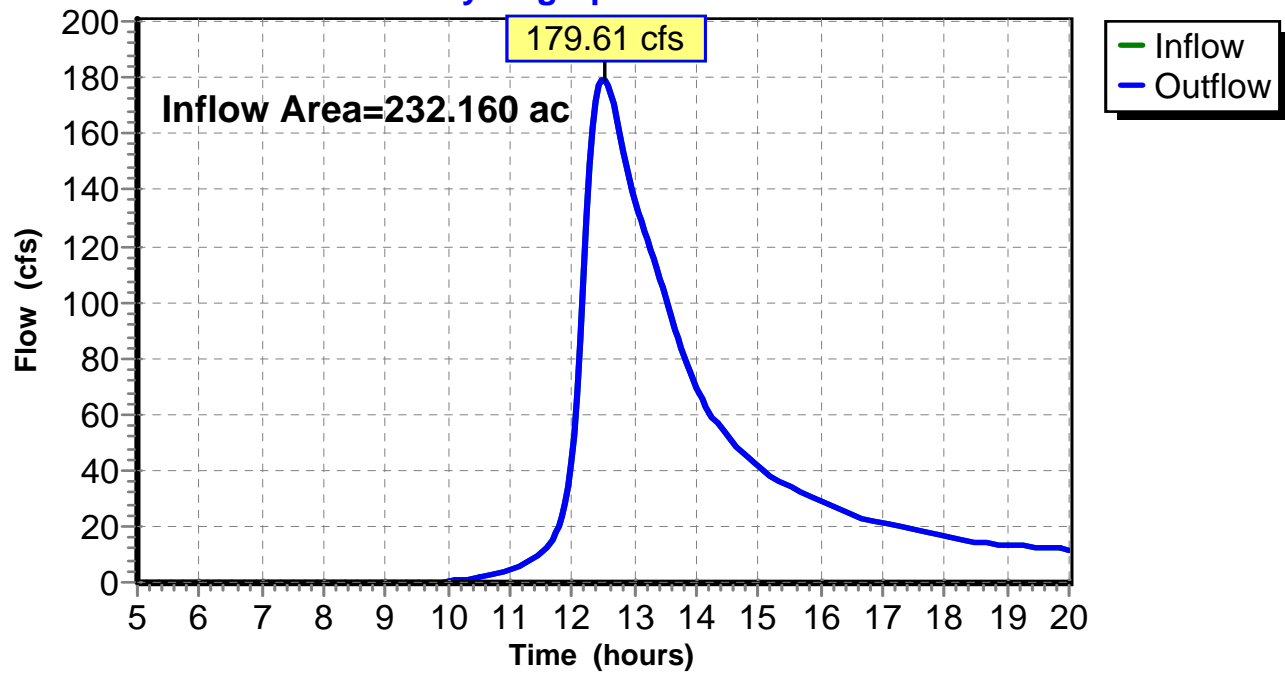
## Summary for Reach Total: Total

Inflow Area = 232.160 ac, 6.40% Impervious, Inflow Depth > 1.78" for 10-Year event  
Inflow = 179.61 cfs @ 12.51 hrs, Volume= 34.384 af  
Outflow = 179.61 cfs @ 12.51 hrs, Volume= 34.384 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

## Reach Total: Total

### Hydrograph





## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 35

### Summary for Subcatchment 10S: Drainage Area 10S

Runoff = 81.66 cfs @ 12.48 hrs, Volume= 9.971 af, Depth> 2.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 36

Area (sf)	CN	Description
0	30	Meadow, non-grazed, HSG A
* 22,165	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
37,022	71	Meadow, non-grazed, HSG C
* 569,524	71	Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
* 0	76	Existing Gravel roads, HSG A
* 2,254	85	Existing Gravel roads, HSG B
* 0	85	Existing Gravel roads, HSG B/D
* 0	89	Existing Gravel roads, HSG C
* 8,341	89	Existing Gravel roads, HSG C/D
* 0	91	Existing Gravel roads, HSG D
0	36	Woods, Fair, HSG A
612,342	60	Woods, Fair, HSG B
* 160,683	60	Woods, Fair, HSG B/D
25,798	73	Woods, Fair, HSG C
* 510,524	73	Woods, Fair, HSG C/D
180,299	79	Woods, Fair, HSG D
* 0	98	Wetlands, HSG A
* 0	98	Wetlands, HSG B
* 0	98	Wetlands, HSG B/D
* 0	98	Wetlands, HSG C
* 2,075	98	Wetlands, HSG C/D
* 0	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
0	98	Paved parking, HSG C
* 0	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
* 0	89	Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
* 0	98	Solar Panel, HSG A
* 0	98	Solar Panel, HSG B
* 0	98	Solar Panel, HSG B/D
* 0	98	Solar Panel, HSG C
* 11,353	98	Solar Panel, HSG C/D
* 0	98	Solar Panel, HSG D
* 0	98	Conc Pad, HSG A
* 0	98	Conc Pad, HSG B
* 0	98	Conc Pad, HSG B/D
* 0	98	Conc Pad, HSG C
* 0	98	Conc Pad, HSG C/D
* 0	98	Conc Pad, HSG D
* 0	30	Solar Meadow, HSG A
* 0	58	Solar Meadow, HSG B
* 0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

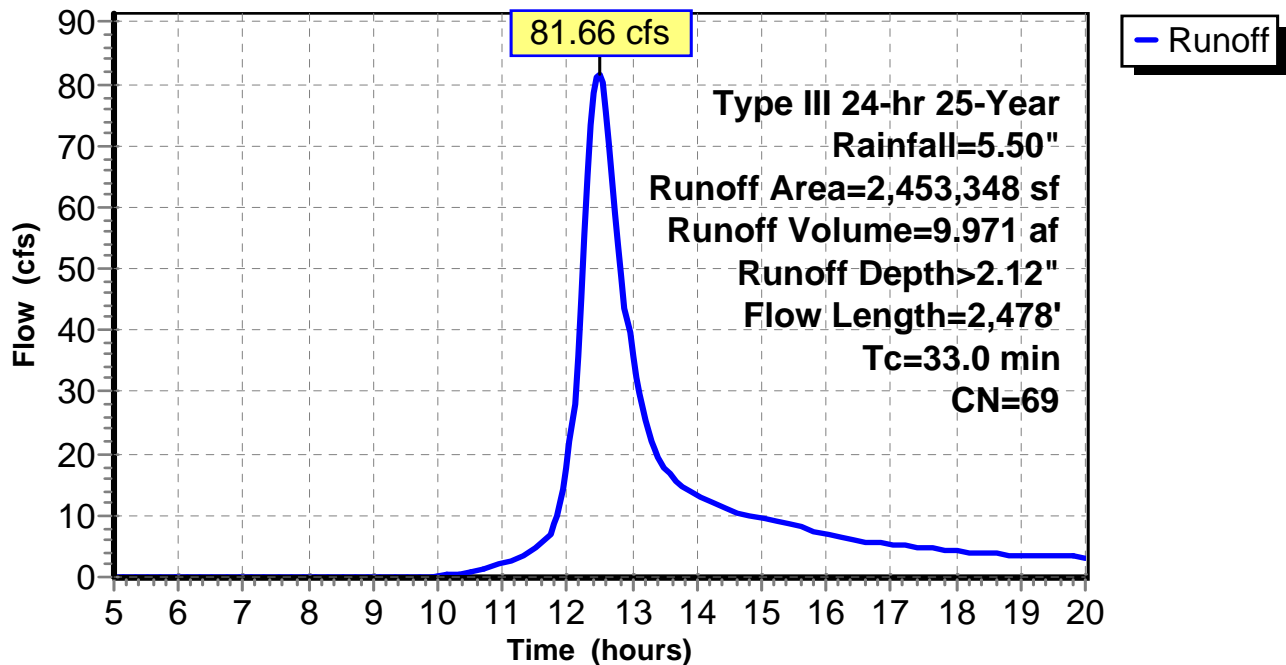
Page 37

*	0	71	Solar Meadow, HSG C
*	310,968	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
	2,453,348	69	Weighted Average
	2,439,920		99.45% Pervious Area
	13,428		0.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0555	0.10		<b>Sheet Flow,</b> Woods: Light underbrush n= 0.400 P2= 3.20"
1.6	110	0.0555	1.18		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
4.5	385	0.0416	1.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	336	0.0179	1.20		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
6.0	685	0.0453	1.92		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.0	912	0.1458	1.91		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
33.0	2,478	Total			

## Subcatchment 10S: Drainage Area 10S

### Hydrograph





## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 38

### Summary for Subcatchment 20S: Drainage Area 20S

Runoff = 30.99 cfs @ 12.33 hrs, Volume= 3.258 af, Depth> 1.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 39

Area (sf)	CN	Description
0	30	Meadow, non-grazed, HSG A
* 104,360	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
* 30,235	71	Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
* 0	76	Existing Gravel roads, HSG A
* 5,146	85	Existing Gravel roads, HSG B
* 0	85	Existing Gravel roads, HSG B/D
* 0	89	Existing Gravel roads, HSG C
* 0	89	Existing Gravel roads, HSG C/D
* 0	91	Existing Gravel roads, HSG D
0	36	Woods, Fair, HSG A
421,044	60	Woods, Fair, HSG B
* 0	60	Woods, Fair, HSG B/D
0	73	Woods, Fair, HSG C
* 1,630	73	Woods, Fair, HSG C/D
7,744	79	Woods, Fair, HSG D
* 0	98	Wetlands, HSG A
* 0	98	Wetlands, HSG B
* 0	98	Wetlands, HSG B/D
* 0	98	Wetlands, HSG C
* 0	98	Wetlands, HSG C/D
* 0	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
0	98	Paved parking, HSG C
* 0	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
* 0	89	Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
* 0	98	Solar Panel, HSG A
* 2,218	98	Solar Panel, HSG B
* 0	98	Solar Panel, HSG B/D
* 0	98	Solar Panel, HSG C
* 12,922	98	Solar Panel, HSG C/D
* 0	98	Solar Panel, HSG D
* 0	98	Conc Pad, HSG A
* 0	98	Conc Pad, HSG B
* 0	98	Conc Pad, HSG B/D
* 0	98	Conc Pad, HSG C
* 0	98	Conc Pad, HSG C/D
* 0	98	Conc Pad, HSG D
* 0	30	Solar Meadow, HSG A
* 144,225	58	Solar Meadow, HSG B
* 0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

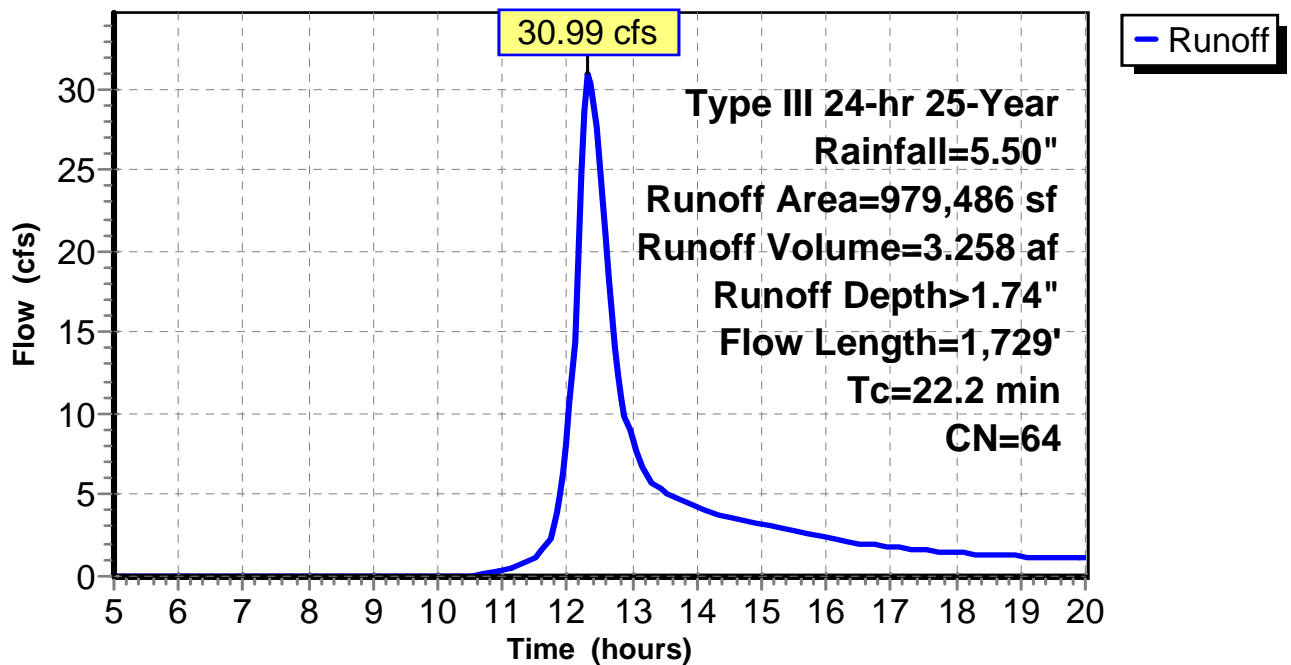
Page 40

*	0	71	Solar Meadow, HSG C
*	249,962	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
<hr/>			
	979,486	64	Weighted Average
	964,346		98.45% Pervious Area
	15,140		1.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	50	0.0200	0.31		<b>Sheet Flow,</b> Cultivated: Residue<=20% n= 0.060 P2= 3.20"
8.2	726	0.0441	1.47		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.3	953	0.0797	1.41		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
22.2	1,729	Total			

## Subcatchment 20S: Drainage Area 20S

### Hydrograph





## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 41

### Summary for Subcatchment 30S: Drainage Area 30S

Runoff = 65.27 cfs @ 12.48 hrs, Volume= 8.008 af, Depth> 2.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 42

	Area (sf)	CN	Description
	0	30	Meadow, non-grazed, HSG A
*	10,416	58	Meadow, non-grazed, HSG B
*	0	58	Meadow, non-grazed, HSG B/D
	9,556	71	Meadow, non-grazed, HSG C
*	309,762	71	Meadow, non-grazed, HSG C/D
	39,913	78	Meadow, non-grazed, HSG D
*	0	76	Existing Gravel roads, HSG A
*	867	85	Existing Gravel roads, HSG B
*	0	85	Existing Gravel roads, HSG B/D
*	0	89	Existing Gravel roads, HSG C
*	521	89	Existing Gravel roads, HSG C/D
*	0	91	Existing Gravel roads, HSG D
	0	36	Woods, Fair, HSG A
	79,826	60	Woods, Fair, HSG B
*	0	60	Woods, Fair, HSG B/D
	7,593	73	Woods, Fair, HSG C
*	36,966	73	Woods, Fair, HSG C/D
	42,854	79	Woods, Fair, HSG D
*	0	98	Wetlands, HSG A
*	5,446	98	Wetlands, HSG B
*	0	98	Wetlands, HSG B/D
*	0	98	Wetlands, HSG C
*	0	98	Wetlands, HSG C/D
*	34,318	98	Wetlands, HSG D
	0	98	Paved parking, HSG A
	0	98	Paved parking, HSG B
*	0	98	Paved parking, HSG B/D
	2,987	98	Paved parking, HSG C
*	11,318	98	Paved parking, HSG C/D
	0	98	Paved parking, HSG D
	0	76	Gravel roads, HSG A
	0	85	Gravel roads, HSG B
*	0	85	Gravel roads, HSG B/D
	1,305	89	Gravel roads, HSG C
*	40,032	89	Gravel roads, HSG C/D
	0	91	Gravel roads, HSG D
*	0	98	Solar Panel, HSG A
*	2,514	98	Solar Panel, HSG B
*	0	98	Solar Panel, HSG B/D
*	0	98	Solar Panel, HSG C
*	22,328	98	Solar Panel, HSG C/D
*	0	98	Solar Panel, HSG D
*	0	98	Conc Pad, HSG A
*	0	98	Conc Pad, HSG B
*	0	98	Conc Pad, HSG B/D
*	0	98	Conc Pad, HSG C
*	7,357	98	Conc Pad, HSG C/D
*	0	98	Conc Pad, HSG D
*	0	30	Solar Meadow, HSG A
*	113,898	58	Solar Meadow, HSG B
*	0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

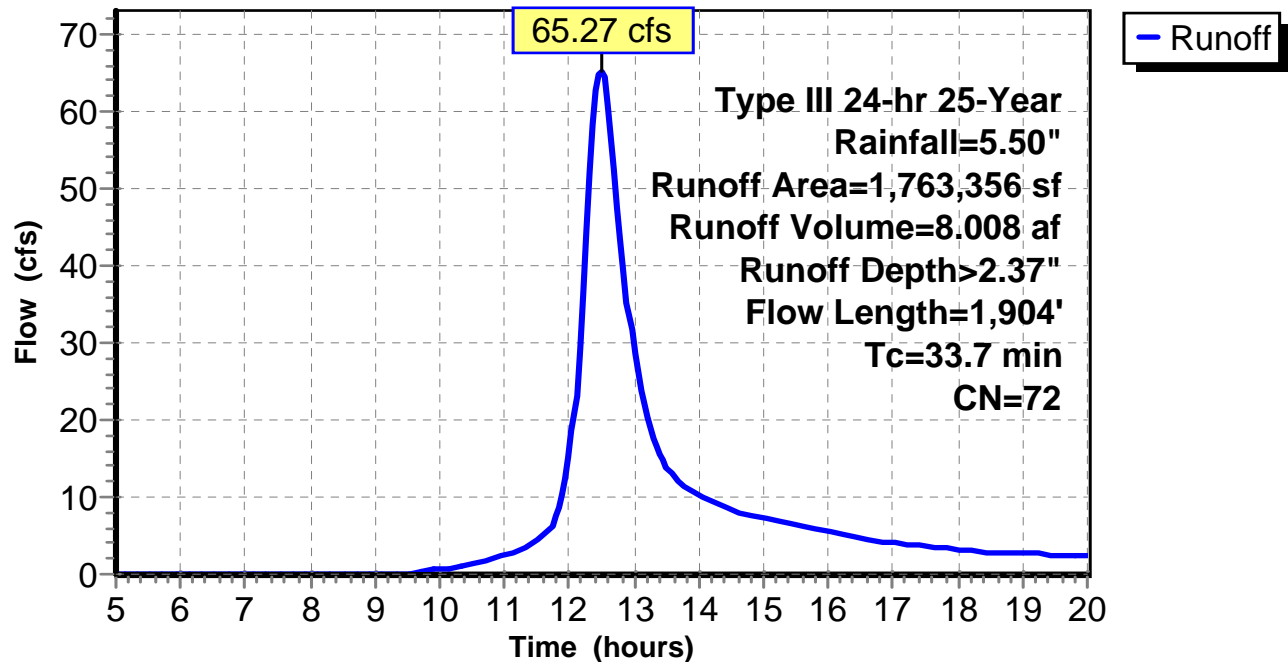
Page 43

*	5,575	71	Solar Meadow, HSG C
*	970,665	71	Solar Meadow, HSG C/D
*	7,339	78	Solar Meadow, HSG D
	1,763,356	72	Weighted Average
	1,677,088		95.11% Pervious Area
	86,268		4.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0150	0.09		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
7.7	576	0.0321	1.25		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	12	0.0321	2.88		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
5.7	479	0.0397	1.39		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.0	787	0.0570	1.19		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
33.7	1,904	Total			

## Subcatchment 30S: Drainage Area 30S

### Hydrograph





## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 44

### Summary for Subcatchment 40S: Drainage Area 40S

Runoff = 98.64 cfs @ 13.16 hrs, Volume= 20.333 af, Depth> 2.41"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 45

Area (sf)	CN	Description
0	30	Meadow, non-grazed, HSG A
* 24,167	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
56,000	71	Meadow, non-grazed, HSG C
* 202,090	71	Meadow, non-grazed, HSG C/D
47,695	78	Meadow, non-grazed, HSG D
* 0	76	Existing Gravel roads, HSG A
* 1,466	85	Existing Gravel roads, HSG B
* 0	85	Existing Gravel roads, HSG B/D
* 1,396	89	Existing Gravel roads, HSG C
* 7,491	89	Existing Gravel roads, HSG C/D
* 966	91	Existing Gravel roads, HSG D
7,185	36	Woods, Fair, HSG A
285,061	60	Woods, Fair, HSG B
* 75	60	Woods, Fair, HSG B/D
90,632	73	Woods, Fair, HSG C
* 780,531	73	Woods, Fair, HSG C/D
187,750	79	Woods, Fair, HSG D
* 115	98	Wetlands, HSG A
* 11,508	98	Wetlands, HSG B
* 28,352	98	Wetlands, HSG B/D
* 1,289	98	Wetlands, HSG C
* 188,916	98	Wetlands, HSG C/D
* 194,241	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
754	98	Paved parking, HSG C
* 9,828	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
1,942	89	Gravel roads, HSG C
* 27,289	89	Gravel roads, HSG C/D
6,016	91	Gravel roads, HSG D
* 0	98	Solar Panel, HSG A
* 5,893	98	Solar Panel, HSG B
* 0	98	Solar Panel, HSG B/D
* 15,758	98	Solar Panel, HSG C
* 44,893	98	Solar Panel, HSG C/D
* 0	98	Solar Panel, HSG D
* 0	98	Conc Pad, HSG A
* 0	98	Conc Pad, HSG B
* 0	98	Conc Pad, HSG B/D
* 1,844	98	Conc Pad, HSG C
* 6,013	98	Conc Pad, HSG C/D
* 1,140	98	Conc Pad, HSG D
* 0	30	Solar Meadow, HSG A
* 410,845	58	Solar Meadow, HSG B
* 0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

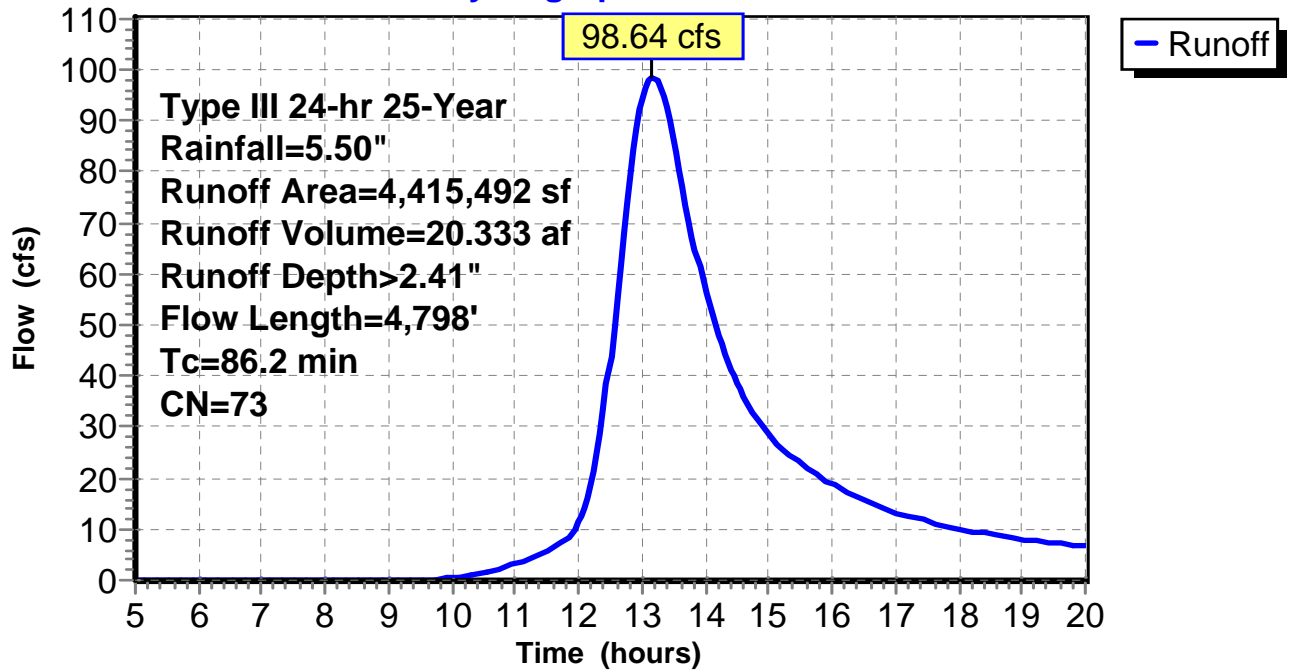
Page 46

*	306,701	71	Solar Meadow, HSG C
*	1,388,294	71	Solar Meadow, HSG C/D
*	71,356	78	Solar Meadow, HSG D
	4,415,492	73	Weighted Average
	3,904,948		88.44% Pervious Area
	510,544		11.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0200	0.10		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
13.1	833	0.0228	1.06		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	12	0.0228	2.43		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
12.3	657	0.0163	0.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
52.5	3,246	0.0425	1.03		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
86.2	4,798	Total			

## Subcatchment 40S: Drainage Area 40S

### Hydrograph





## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 47

### Summary for Subcatchment 50S: Drainage Area 50S

Runoff = 24.04 cfs @ 12.29 hrs, Volume= 2.370 af, Depth> 2.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-Year Rainfall=5.50"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 48

Area (sf)	CN	Description
	0	30 Meadow, non-grazed, HSG A
*	0	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
	0	71 Meadow, non-grazed, HSG C
*	202,519	71 Meadow, non-grazed, HSG C/D
	0	78 Meadow, non-grazed, HSG D
*	0	76 Existing Gravel roads, HSG A
*	0	85 Existing Gravel roads, HSG B
*	0	85 Existing Gravel roads, HSG B/D
*	0	89 Existing Gravel roads, HSG C
*	0	89 Existing Gravel roads, HSG C/D
*	0	91 Existing Gravel roads, HSG D
	0	36 Woods, Fair, HSG A
	0	60 Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
	3,138	73 Woods, Fair, HSG C
*	923	73 Woods, Fair, HSG C/D
	0	79 Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
	0	98 Paved parking, HSG A
	0	98 Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
	0	98 Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
	0	98 Paved parking, HSG D
	0	76 Gravel roads, HSG A
	0	85 Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
	0	89 Gravel roads, HSG C
*	17,873	89 Gravel roads, HSG C/D
	0	91 Gravel roads, HSG D
*	0	98 Solar Panel, HSG A
*	0	98 Solar Panel, HSG B
*	0	98 Solar Panel, HSG B/D
*	1,171	98 Solar Panel, HSG C
*	7,768	98 Solar Panel, HSG C/D
*	0	98 Solar Panel, HSG D
*	0	98 Conc Pad, HSG A
*	0	98 Conc Pad, HSG B
*	0	98 Conc Pad, HSG B/D
*	0	98 Conc Pad, HSG C
*	12,977	98 Conc Pad, HSG C/D
*	0	98 Conc Pad, HSG D
*	0	30 Solar Meadow, HSG A
*	0	58 Solar Meadow, HSG B
*	0	58 Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

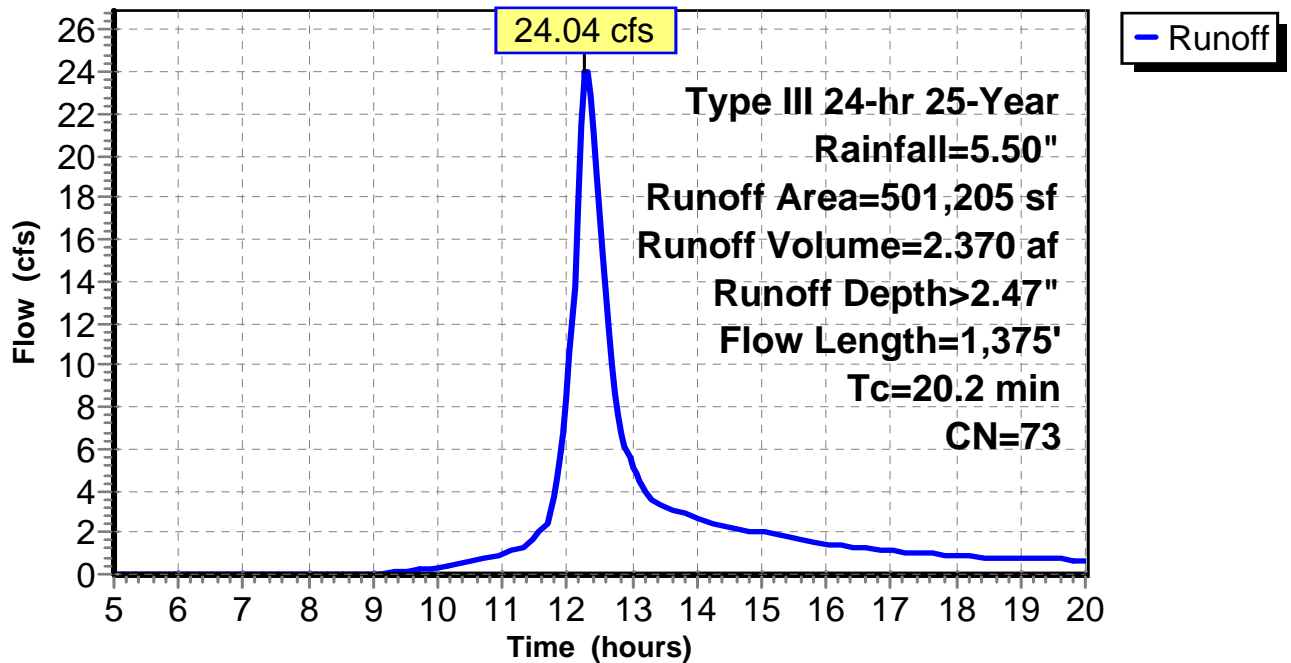
Page 49

*	6,124	71	Solar Meadow, HSG C
*	248,712	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
	501,205	73	Weighted Average
	479,289		95.63% Pervious Area
	21,916		4.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	50	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
12.6	607	0.0132	0.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.3	718	0.2650	3.60		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
20.2	1,375	Total			

## Subcatchment 50S: Drainage Area 50S

### Hydrograph





# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 25-Year Rainfall=5.50"

Printed 3/31/2016

Page 50

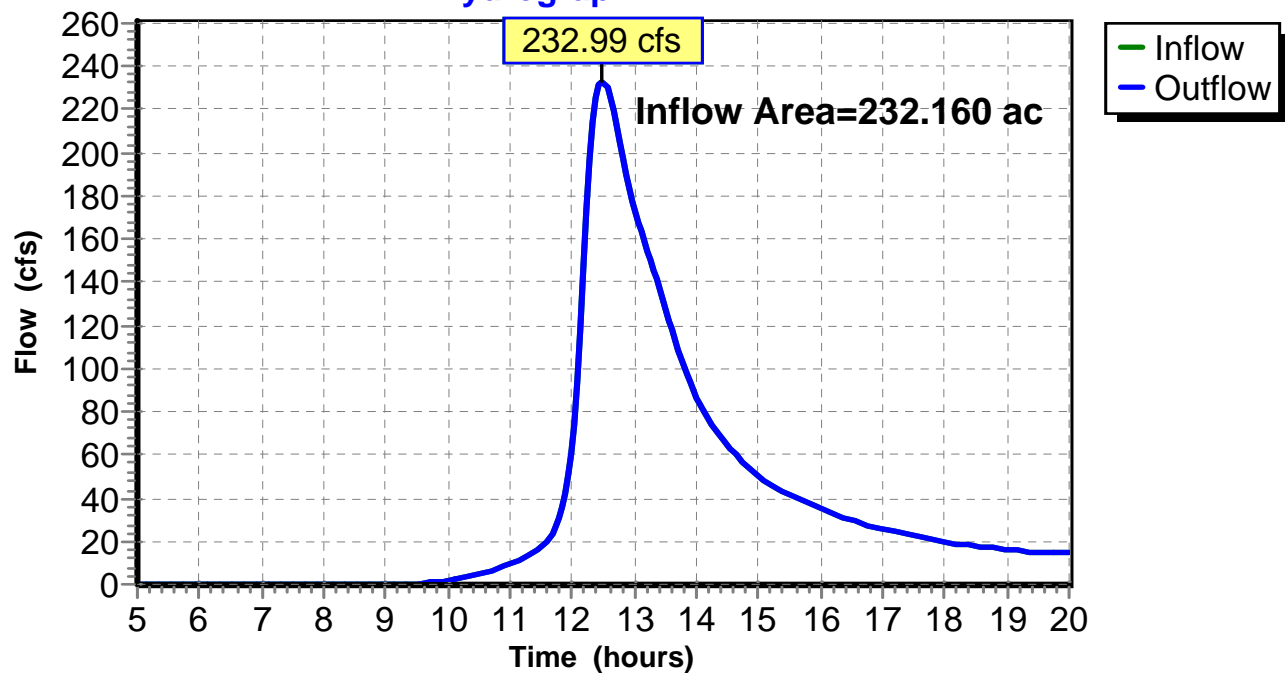
## Summary for Reach Total: Total

Inflow Area = 232.160 ac, 6.40% Impervious, Inflow Depth > 2.27" for 25-Year event  
Inflow = 232.99 cfs @ 12.50 hrs, Volume= 43.941 af  
Outflow = 232.99 cfs @ 12.50 hrs, Volume= 43.941 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

### Reach Total: Total

#### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 51

### Summary for Subcatchment 10S: Drainage Area 10S

Runoff = 122.01 cfs @ 12.47 hrs, Volume= 14.808 af, Depth> 3.16"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 52

Area (sf)	CN	Description
0	30	Meadow, non-grazed, HSG A
* 22,165	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
37,022	71	Meadow, non-grazed, HSG C
* 569,524	71	Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
* 0	76	Existing Gravel roads, HSG A
* 2,254	85	Existing Gravel roads, HSG B
* 0	85	Existing Gravel roads, HSG B/D
* 0	89	Existing Gravel roads, HSG C
* 8,341	89	Existing Gravel roads, HSG C/D
* 0	91	Existing Gravel roads, HSG D
0	36	Woods, Fair, HSG A
612,342	60	Woods, Fair, HSG B
* 160,683	60	Woods, Fair, HSG B/D
25,798	73	Woods, Fair, HSG C
* 510,524	73	Woods, Fair, HSG C/D
180,299	79	Woods, Fair, HSG D
* 0	98	Wetlands, HSG A
* 0	98	Wetlands, HSG B
* 0	98	Wetlands, HSG B/D
* 0	98	Wetlands, HSG C
* 2,075	98	Wetlands, HSG C/D
* 0	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
0	98	Paved parking, HSG C
* 0	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
* 0	89	Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
* 0	98	Solar Panel, HSG A
* 0	98	Solar Panel, HSG B
* 0	98	Solar Panel, HSG B/D
* 0	98	Solar Panel, HSG C
* 11,353	98	Solar Panel, HSG C/D
* 0	98	Solar Panel, HSG D
* 0	98	Conc Pad, HSG A
* 0	98	Conc Pad, HSG B
* 0	98	Conc Pad, HSG B/D
* 0	98	Conc Pad, HSG C
* 0	98	Conc Pad, HSG C/D
* 0	98	Conc Pad, HSG D
* 0	30	Solar Meadow, HSG A
* 0	58	Solar Meadow, HSG B
* 0	58	Solar Meadow, HSG B/C



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

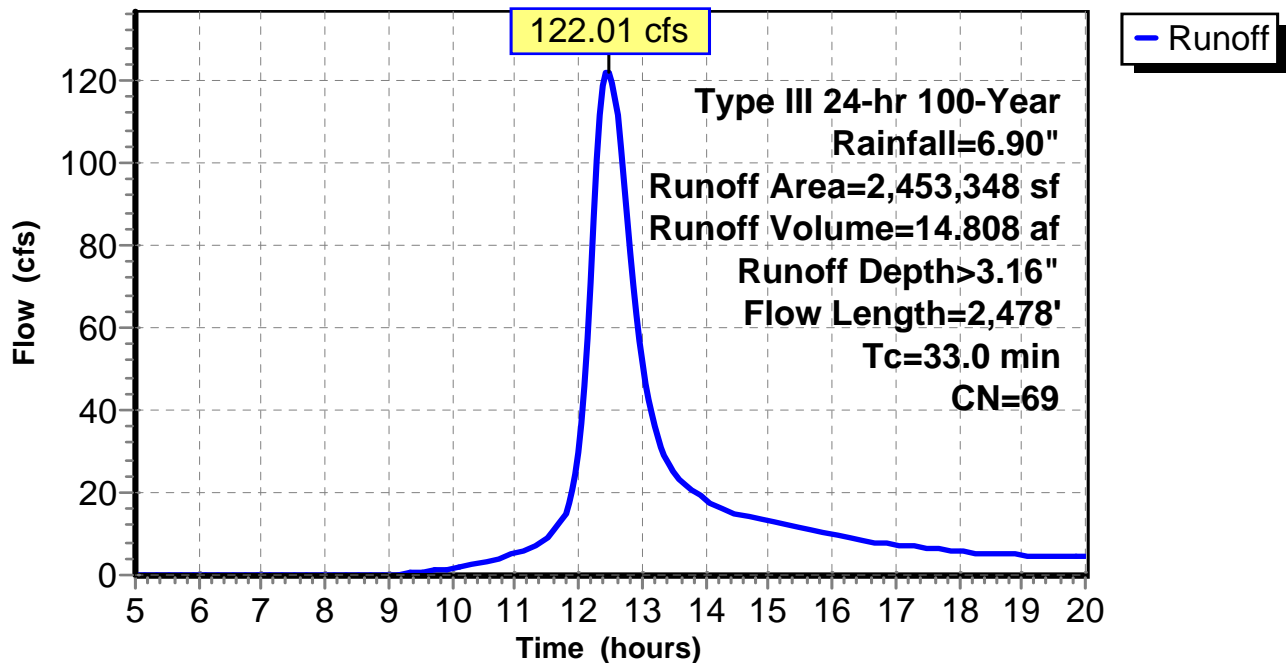
Page 53

*	0	71	Solar Meadow, HSG C
*	310,968	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
	2,453,348	69	Weighted Average
	2,439,920		99.45% Pervious Area
	13,428		0.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0555	0.10		<b>Sheet Flow,</b> Woods: Light underbrush n= 0.400 P2= 3.20"
1.6	110	0.0555	1.18		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
4.5	385	0.0416	1.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	336	0.0179	1.20		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
6.0	685	0.0453	1.92		<b>Shallow Concentrated Flow,</b> Cultivated Straight Rows Kv= 9.0 fps
8.0	912	0.1458	1.91		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
33.0	2,478	Total			

## Subcatchment 10S: Drainage Area 10S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 54

### Summary for Subcatchment 20S: Drainage Area 20S

Runoff = 48.83 cfs @ 12.32 hrs, Volume= 5.024 af, Depth> 2.68"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 55

Area (sf)	CN	Description
0	30	Meadow, non-grazed, HSG A
* 104,360	58	Meadow, non-grazed, HSG B
* 0	58	Meadow, non-grazed, HSG B/D
0	71	Meadow, non-grazed, HSG C
* 30,235	71	Meadow, non-grazed, HSG C/D
0	78	Meadow, non-grazed, HSG D
* 0	76	Existing Gravel roads, HSG A
* 5,146	85	Existing Gravel roads, HSG B
* 0	85	Existing Gravel roads, HSG B/D
* 0	89	Existing Gravel roads, HSG C
* 0	89	Existing Gravel roads, HSG C/D
* 0	91	Existing Gravel roads, HSG D
0	36	Woods, Fair, HSG A
421,044	60	Woods, Fair, HSG B
* 0	60	Woods, Fair, HSG B/D
0	73	Woods, Fair, HSG C
* 1,630	73	Woods, Fair, HSG C/D
7,744	79	Woods, Fair, HSG D
* 0	98	Wetlands, HSG A
* 0	98	Wetlands, HSG B
* 0	98	Wetlands, HSG B/D
* 0	98	Wetlands, HSG C
* 0	98	Wetlands, HSG C/D
* 0	98	Wetlands, HSG D
0	98	Paved parking, HSG A
0	98	Paved parking, HSG B
* 0	98	Paved parking, HSG B/D
* 0	98	Paved parking, HSG C
0	98	Paved parking, HSG C/D
0	98	Paved parking, HSG D
0	76	Gravel roads, HSG A
0	85	Gravel roads, HSG B
* 0	85	Gravel roads, HSG B/D
0	89	Gravel roads, HSG C
* 0	89	Gravel roads, HSG C/D
0	91	Gravel roads, HSG D
* 0	98	Solar Panel, HSG A
* 2,218	98	Solar Panel, HSG B
* 0	98	Solar Panel, HSG B/D
* 0	98	Solar Panel, HSG C
* 12,922	98	Solar Panel, HSG C/D
* 0	98	Solar Panel, HSG D
* 0	98	Conc Pad, HSG A
* 0	98	Conc Pad, HSG B
* 0	98	Conc Pad, HSG B/D
* 0	98	Conc Pad, HSG C
* 0	98	Conc Pad, HSG C/D
* 0	98	Conc Pad, HSG D
* 0	30	Solar Meadow, HSG A
* 144,225	58	Solar Meadow, HSG B
* 0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
 Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

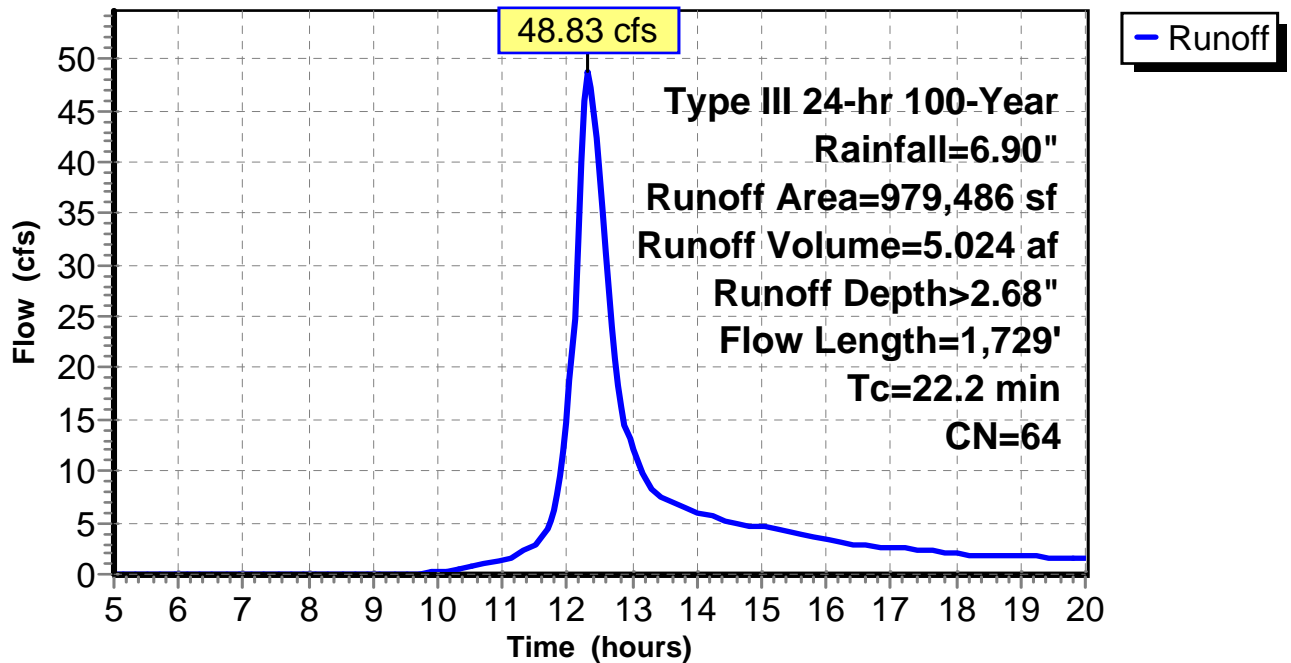
Page 56

*	0	71	Solar Meadow, HSG C
*	249,962	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
<hr/>			
	979,486	64	Weighted Average
	964,346		98.45% Pervious Area
	15,140		1.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	50	0.0200	0.31		<b>Sheet Flow,</b> Cultivated: Residue<=20% n= 0.060 P2= 3.20"
8.2	726	0.0441	1.47		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.3	953	0.0797	1.41		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
22.2	1,729	Total			

## Subcatchment 20S: Drainage Area 20S

### Hydrograph





## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 57

### Summary for Subcatchment 30S: Drainage Area 30S

Runoff = 95.06 cfs @ 12.47 hrs, Volume= 11.654 af, Depth> 3.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"

**Proposed Conditions Hydrology**

Prepared by Tighe &amp; Bond, Inc.

Printed 3/31/2016

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Page 58

	Area (sf)	CN	Description
	0	30	Meadow, non-grazed, HSG A
*	10,416	58	Meadow, non-grazed, HSG B
*	0	58	Meadow, non-grazed, HSG B/D
	9,556	71	Meadow, non-grazed, HSG C
*	309,762	71	Meadow, non-grazed, HSG C/D
	39,913	78	Meadow, non-grazed, HSG D
*	0	76	Existing Gravel roads, HSG A
*	867	85	Existing Gravel roads, HSG B
*	0	85	Existing Gravel roads, HSG B/D
*	0	89	Existing Gravel roads, HSG C
*	521	89	Existing Gravel roads, HSG C/D
*	0	91	Existing Gravel roads, HSG D
	0	36	Woods, Fair, HSG A
	79,826	60	Woods, Fair, HSG B
*	0	60	Woods, Fair, HSG B/D
	7,593	73	Woods, Fair, HSG C
*	36,966	73	Woods, Fair, HSG C/D
	42,854	79	Woods, Fair, HSG D
*	0	98	Wetlands, HSG A
*	5,446	98	Wetlands, HSG B
*	0	98	Wetlands, HSG B/D
*	0	98	Wetlands, HSG C
*	0	98	Wetlands, HSG C/D
*	34,318	98	Wetlands, HSG D
	0	98	Paved parking, HSG A
	0	98	Paved parking, HSG B
*	0	98	Paved parking, HSG B/D
	2,987	98	Paved parking, HSG C
*	11,318	98	Paved parking, HSG C/D
	0	98	Paved parking, HSG D
	0	76	Gravel roads, HSG A
	0	85	Gravel roads, HSG B
*	0	85	Gravel roads, HSG B/D
	1,305	89	Gravel roads, HSG C
*	40,032	89	Gravel roads, HSG C/D
	0	91	Gravel roads, HSG D
*	0	98	Solar Panel, HSG A
*	2,514	98	Solar Panel, HSG B
*	0	98	Solar Panel, HSG B/D
*	0	98	Solar Panel, HSG C
*	22,328	98	Solar Panel, HSG C/D
*	0	98	Solar Panel, HSG D
*	0	98	Conc Pad, HSG A
*	0	98	Conc Pad, HSG B
*	0	98	Conc Pad, HSG B/D
*	0	98	Conc Pad, HSG C
*	7,357	98	Conc Pad, HSG C/D
*	0	98	Conc Pad, HSG D
*	0	30	Solar Meadow, HSG A
*	113,898	58	Solar Meadow, HSG B
*	0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

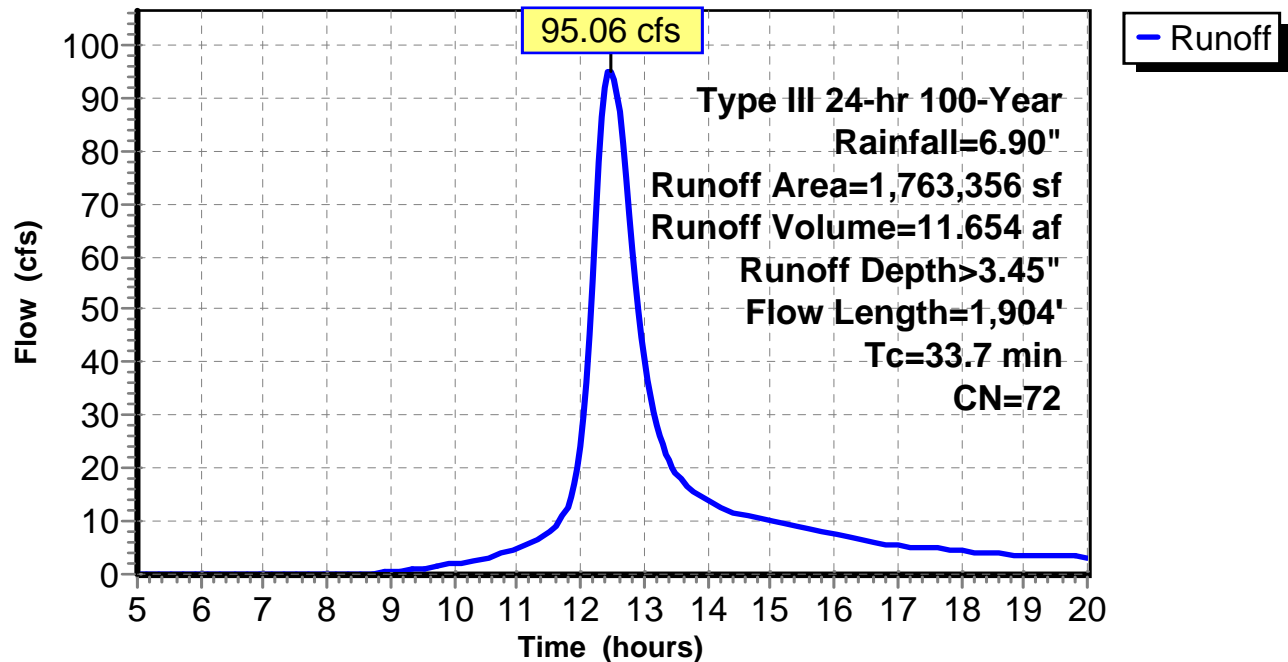
Page 59

*	5,575	71	Solar Meadow, HSG C
*	970,665	71	Solar Meadow, HSG C/D
*	7,339	78	Solar Meadow, HSG D
	1,763,356	72	Weighted Average
	1,677,088		95.11% Pervious Area
	86,268		4.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0150	0.09		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
7.7	576	0.0321	1.25		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	12	0.0321	2.88		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
5.7	479	0.0397	1.39		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.0	787	0.0570	1.19		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
33.7	1,904	Total			

## Subcatchment 30S: Drainage Area 30S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 60

### Summary for Subcatchment 40S: Drainage Area 40S

Runoff = 143.02 cfs @ 13.14 hrs, Volume= 29.448 af, Depth> 3.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"



**Proposed Conditions Hydrology**

Prepared by Tighe &amp; Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

	Area (sf)	CN	Description
	0	30	Meadow, non-grazed, HSG A
*	24,167	58	Meadow, non-grazed, HSG B
*	0	58	Meadow, non-grazed, HSG B/D
	56,000	71	Meadow, non-grazed, HSG C
*	202,090	71	Meadow, non-grazed, HSG C/D
	47,695	78	Meadow, non-grazed, HSG D
*	0	76	Existing Gravel roads, HSG A
*	1,466	85	Existing Gravel roads, HSG B
*	0	85	Existing Gravel roads, HSG B/D
*	1,396	89	Existing Gravel roads, HSG C
*	7,491	89	Existing Gravel roads, HSG C/D
*	966	91	Existing Gravel roads, HSG D
	7,185	36	Woods, Fair, HSG A
	285,061	60	Woods, Fair, HSG B
*	75	60	Woods, Fair, HSG B/D
	90,632	73	Woods, Fair, HSG C
*	780,531	73	Woods, Fair, HSG C/D
	187,750	79	Woods, Fair, HSG D
*	115	98	Wetlands, HSG A
*	11,508	98	Wetlands, HSG B
*	28,352	98	Wetlands, HSG B/D
*	1,289	98	Wetlands, HSG C
*	188,916	98	Wetlands, HSG C/D
*	194,241	98	Wetlands, HSG D
	0	98	Paved parking, HSG A
	0	98	Paved parking, HSG B
*	0	98	Paved parking, HSG B/D
	754	98	Paved parking, HSG C
*	9,828	98	Paved parking, HSG C/D
	0	98	Paved parking, HSG D
	0	76	Gravel roads, HSG A
	0	85	Gravel roads, HSG B
*	0	85	Gravel roads, HSG B/D
	1,942	89	Gravel roads, HSG C
*	27,289	89	Gravel roads, HSG C/D
	6,016	91	Gravel roads, HSG D
*	0	98	Solar Panel, HSG A
*	5,893	98	Solar Panel, HSG B
*	0	98	Solar Panel, HSG B/D
*	15,758	98	Solar Panel, HSG C
*	44,893	98	Solar Panel, HSG C/D
*	0	98	Solar Panel, HSG D
*	0	98	Conc Pad, HSG A
*	0	98	Conc Pad, HSG B
*	0	98	Conc Pad, HSG B/D
*	1,844	98	Conc Pad, HSG C
*	6,013	98	Conc Pad, HSG C/D
*	1,140	98	Conc Pad, HSG D
*	0	30	Solar Meadow, HSG A
*	410,845	58	Solar Meadow, HSG B
*	0	58	Solar Meadow, HSG B/C

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

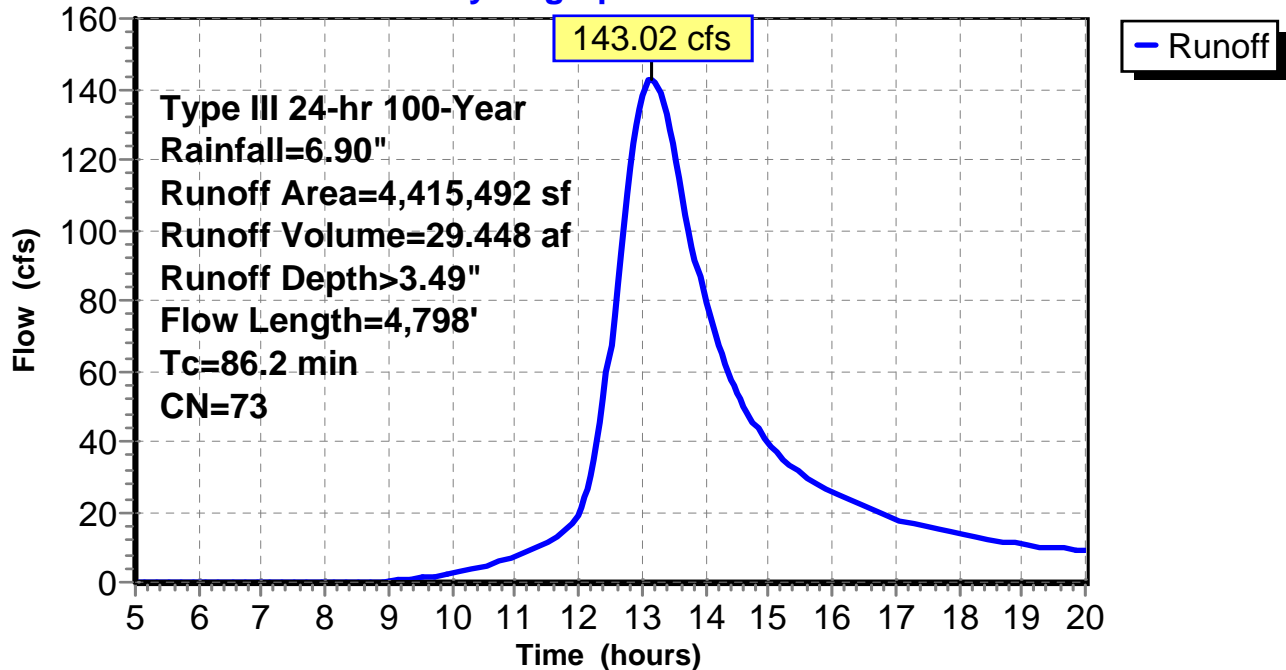
Page 62

*	306,701	71	Solar Meadow, HSG C
*	1,388,294	71	Solar Meadow, HSG C/D
*	71,356	78	Solar Meadow, HSG D
	4,415,492	73	Weighted Average
	3,904,948		88.44% Pervious Area
	510,544		11.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0200	0.10		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
13.1	833	0.0228	1.06		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	12	0.0228	2.43		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
12.3	657	0.0163	0.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
52.5	3,246	0.0425	1.03		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
86.2	4,798	Total			

## Subcatchment 40S: Drainage Area 40S

### Hydrograph



## Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 63

### Summary for Subcatchment 50S: Drainage Area 50S

Runoff = 34.73 cfs @ 12.28 hrs, Volume= 3.426 af, Depth> 3.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100-Year Rainfall=6.90"

# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 64

Area (sf)	CN	Description
	0	30 Meadow, non-grazed, HSG A
*	0	58 Meadow, non-grazed, HSG B
*	0	58 Meadow, non-grazed, HSG B/D
	0	71 Meadow, non-grazed, HSG C
*	202,519	71 Meadow, non-grazed, HSG C/D
	0	78 Meadow, non-grazed, HSG D
*	0	76 Existing Gravel roads, HSG A
*	0	85 Existing Gravel roads, HSG B
*	0	85 Existing Gravel roads, HSG B/D
*	0	89 Existing Gravel roads, HSG C
*	0	89 Existing Gravel roads, HSG C/D
*	0	91 Existing Gravel roads, HSG D
	0	36 Woods, Fair, HSG A
	0	60 Woods, Fair, HSG B
*	0	60 Woods, Fair, HSG B/D
	3,138	73 Woods, Fair, HSG C
*	923	73 Woods, Fair, HSG C/D
	0	79 Woods, Fair, HSG D
*	0	98 Wetlands, HSG A
*	0	98 Wetlands, HSG B
*	0	98 Wetlands, HSG B/D
*	0	98 Wetlands, HSG C
*	0	98 Wetlands, HSG C/D
*	0	98 Wetlands, HSG D
	0	98 Paved parking, HSG A
	0	98 Paved parking, HSG B
*	0	98 Paved parking, HSG B/D
	0	98 Paved parking, HSG C
*	0	98 Paved parking, HSG C/D
	0	98 Paved parking, HSG D
	0	76 Gravel roads, HSG A
	0	85 Gravel roads, HSG B
*	0	85 Gravel roads, HSG B/D
	0	89 Gravel roads, HSG C
*	17,873	89 Gravel roads, HSG C/D
	0	91 Gravel roads, HSG D
*	0	98 Solar Panel, HSG A
*	0	98 Solar Panel, HSG B
*	0	98 Solar Panel, HSG B/D
*	1,171	98 Solar Panel, HSG C
*	7,768	98 Solar Panel, HSG C/D
*	0	98 Solar Panel, HSG D
*	0	98 Conc Pad, HSG A
*	0	98 Conc Pad, HSG B
*	0	98 Conc Pad, HSG B/D
*	0	98 Conc Pad, HSG C
*	12,977	98 Conc Pad, HSG C/D
*	0	98 Conc Pad, HSG D
*	0	30 Solar Meadow, HSG A
*	0	58 Solar Meadow, HSG B
*	0	58 Solar Meadow, HSG B/C



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project  
Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

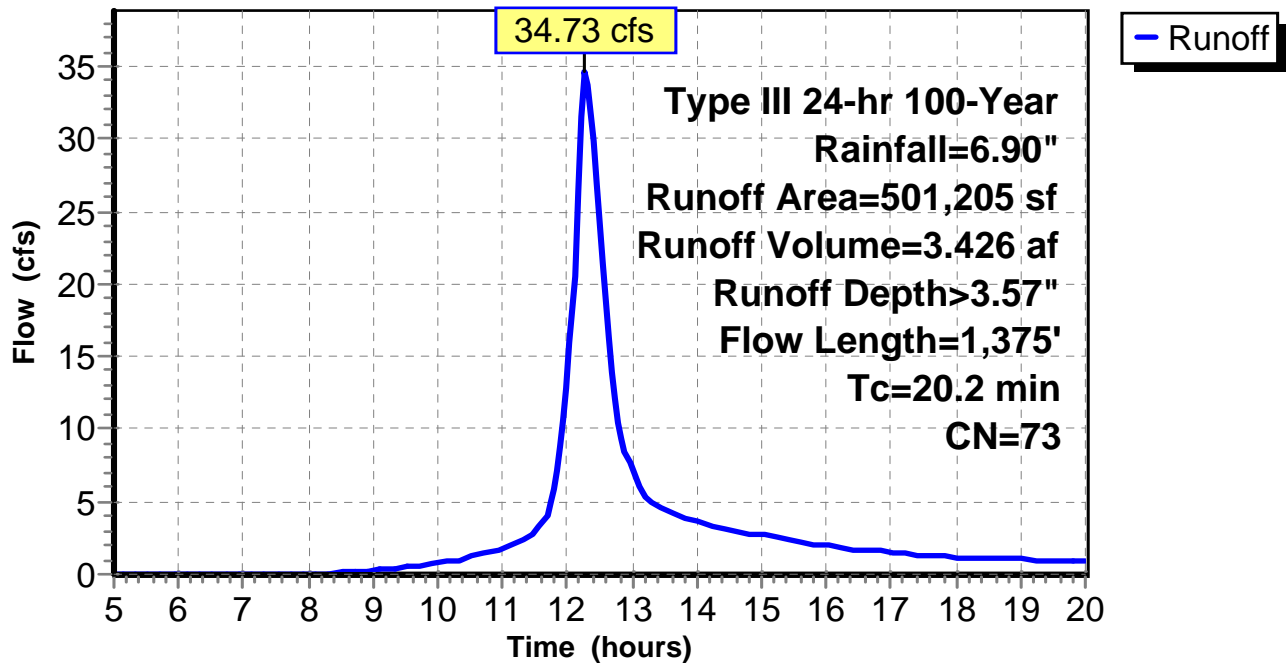
Page 65

*	6,124	71	Solar Meadow, HSG C
*	248,712	71	Solar Meadow, HSG C/D
*	0	78	Solar Meadow, HSG D
<hr/>			
	501,205	73	Weighted Average
	479,289		95.63% Pervious Area
	21,916		4.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	50	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 3.20"
12.6	607	0.0132	0.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.3	718	0.2650	3.60		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
<hr/>					
20.2	1,375	Total			

## Subcatchment 50S: Drainage Area 50S

### Hydrograph



# Proposed Conditions Hydrology

Prepared by Tighe & Bond, Inc.

HydroCAD® 9.10 s/n 01580 © 2010 HydroCAD Software Solutions LLC

Woods Hill Solar Project

Type III 24-hr 100-Year Rainfall=6.90"

Printed 3/31/2016

Page 66

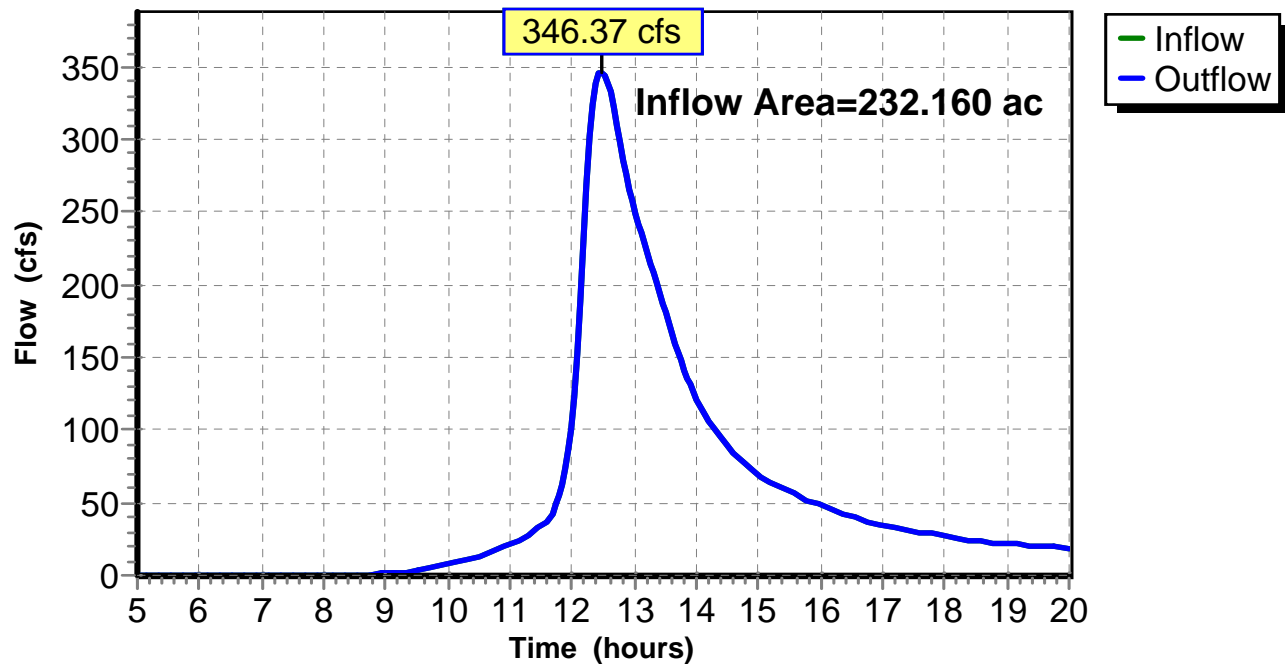
## Summary for Reach Total: Total

Inflow Area = 232.160 ac, 6.40% Impervious, Inflow Depth > 3.33" for 100-Year event  
Inflow = 346.37 cfs @ 12.48 hrs, Volume= 64.361 af  
Outflow = 346.37 cfs @ 12.48 hrs, Volume= 64.361 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

### Reach Total: Total

#### Hydrograph



## **EXHIBIT O:**

Noise Study

The noise modeling methodology for the infrastructure of the project is based on the ISO 9613 international standard [1] that uses divergent principles attenuation with additional attenuation introduced by obstacles and attenuation air. The acoustic modeling was done using the CADNA/A software program version 4.0.135 from DataKustik GmbH. The input variables of the model are sound power of the noise sources provided for each source of emission (in this case, inverters and transformers). Software modeling was done assuming the for worst case scenario at each point of receptor:

- Every receptor was modeled as being downwind from every source of sound emission. In other words, downwind propagation is modelled in all directions therefore predicted values are over-estimations upwind and crosswind of the proposed noise source.
- Trees and other non-terrain shielding effects have not been considered

[1] International Organization for Standardization. ISO 9613-2: Acoustics – Attenuation of Sound During Propagation Outdoors – Part 2: General Method of Calculation. 15 December 1996.

ISO 9613-2

- Ambient air temperature: 10°C
- Ambient barometric pressure: 101.32 kPa
- Humidity: 70%
- Overall ground factor: 0.5
- Topography included

Octave band data used:

Name	ID	Octave Spectrum (dB)											
		Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin
SC2200	SC2200	A	51.1	65.5	74.2	84.2	87.6	86.6	85.2	90.2	77.7	94.4	99.2
Substation	Substation	A	46.8	66.0	78.1	80.6	86.0	83.2	79.4	74.2	65.1	89.6	98.2

Conservative assumptions:

Ground numerical coefficient (G) also known as ground absorption factor can range from 0 to 1. A G = 0 equates to hard ground (water, ice, concrete and other ground surfaces with a low porosity), while a G = 1 equates to porous ground (ground covered by grass, trees, or other vegetation). A site like Woods Hills (very similar to that of Deerfield Wind Energy, Michigan) though the ground use on and around the site is farming, a mixed (semi-reflective) overall ground factor of G = 0.7 would typically be used. RES, for a conservative approach used G = 0.5.

Octave band data:

The maximum acoustic emission was assumed for both inverter and substation (as shown in the table above) plus a 2 dBA was added for uncertainty level.

Substation:

Acoustic emission per substation’s manufacturer (Siemens, who also references NEMA TR-1 and the IEEE C57.12.90) is said to be 63dB. However, due to the fact that only the broadband value was deliver and not the octave band spectrum RES



assumed our standard (more conservative) substation for typical solar farm of said size, which has an overall broadband of 89.6dBA plus the 2 dBA added (total of 91.6dBA) as mentioned above.

Receptors:

Assumed all two story tall buildings, 4.5m.

Source:

Substation 3m tall

Inverters 2m tall

**ACOUSTIC dBA TABLE**

<b>Project:</b>	<b>Woods Hills Solar</b>
<b>Projection:</b>	UTM
<b>Zone:</b>	17 North
<b>Datum:</b>	NAD27
<b>Planar Units:</b>	Meters

<b>ID</b>	<b>X</b>	<b>Y</b>	<b>dBA</b>
H1	257657.3	4635078.0	42.6
H2	257600.0	4635068.0	44.0
H3	257425.0	4634797.0	42.6
H4	257429.4	4634766.0	42.2
H5	257201.6	4634661.0	37.7
H6	257227.9	4634605.0	36.4
H7	257237.0	4634506.0	35.6
H8	257349.3	4634555.0	36.0
H9	257320.6	4634470.0	34.5
H10	257551.9	4634294.0	35.5
H11	257582.0	4634260.0	34.7
H12	257596.5	4634160.0	32.7
H13	257473.1	4634417.0	37.6
H14	257048.1	4634385.0	30.5
H15	257150.0	4634400.0	32.4
H16	257201.1	4634413.0	34.5
H17	257254.3	4634397.0	33.7
H18	257081.8	4634336.0	31.9

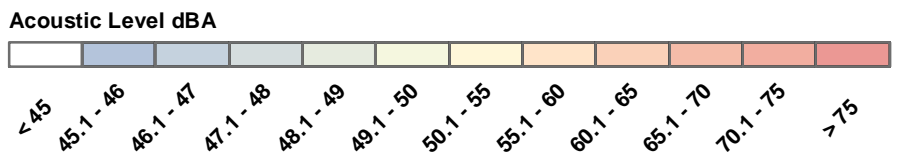


# Woods Hill Solar



## Legend

- + Inverters
- Inhabited Structures
- Parcel Boundary
- Substation
- Solar Array Boundary



This drawing is the property of RES America Developments Inc. and no reproduction may be made in whole or in part without permission.

Renewable Energy Systems



11101 W. 120th Ave., Suite 400  
Broomfield, CO, 80021  
Phone: (303) 429-4200 Fax: (303) 429-4299

COORDINATE SYSTEM: NAD 27 UTM Zone 19N, Meters  
LAYOUT NUMBER: DRAWING NO.: 23110D2201-01  
DRAWN BY: RT DATE: 10/03/2016  
APPROVED BY: EK DATE: 10/03/2016



## **EXHIBIT P:**

FAA Notice of Proposed Construction



**From:** [noreply@faa.gov](mailto:noreply@faa.gov)  
**To:** [Jean E. Christy](#)  
**Subject:** Status of FAA Filing  
**Date:** Tuesday, March 22, 2016 12:59:16 PM

---

Your filing is assigned Aeronautical Study Number(s) (ASN): 2016-ANE-654-OE, 2016-ANE-655-OE, 2016-ANE-656-OE, 2016-ANE-657-OE, 2016-ANE-658-OE, 2016-ANE-659-OE.

To review your electronic record, go to our website [oeaaa.faa.gov](http://oeaaa.faa.gov) and select the Search Archives link to locate your case using the assigned Aeronautical Study Number (ASN). Copies of your letter are available on the website for your convenience.

The FAA verified your filing and an aeronautical study has been initiated. Please allow a minimum 45 days for the FAA to complete the study. Please refer to the assigned ASN on all future inquiries regarding this filing.

For Wind Turbine proposals only, please ensure Wind Turbine Data as described on the project summary page in your registered e-filing account has been uploaded to your filing.

*To ensure e-mail notifications are delivered to your inbox please add [noreply@faa.gov](mailto:noreply@faa.gov) to your address book. Notifications sent from this address are system generated FAA e-mails and replies to this address will NOT be read or forwarded for review. Each system generated e-mail will contain specific FAA contact information in the text of the message.*



R-02984-01-05  
March 22, 2016

FAA Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Re: **Obstruction Evaluation Filing  
Woods Hill Solar Project, Pomfret, Connecticut**

To Whom It May Concern:

The Woods Hill Road Solar Project is located at 90 and 101 Woods Hill Road in Pomfret, Connecticut. The project includes the construction of a 22 MW<sub>(DC)</sub> / 17.61 MW<sub>(AC)</sub> ground-mounted solar photovoltaic system. The project is proximate to Danielson Airport, located approximately 4,000 feet southeast of the proposed project. As such, the project is required to file a Form 7460-1 Obstruction Evaluation (OE) with the Federal Aviation Administration (FAA).

The proposed boundary corner points are provided on separate documents attached to the filing through the online OE portal and include latitude/longitude data for each submittal point. Site Plans, showing the overall solar project, are also provided herein.

The proposed solar panels are JA Solar, 315W 72-cell modules utilizing 156-millimeter polycrystalline silicon cells. Panel specifications are provided as part of this letter in the System Design Plans. The PV module reflectivity is minimal as the panels are intended to absorb as much light as possible. The attached panel specifications indicate that the modules have anti-reflective coating. Panels will be mounted on a fixed-tile system and will not rotate. Details on the racking system are provided herein. The tilt angle is 25° from horizontal. The horizontal azimuth/bearing that the panels are facing is 180° (due south).

We anticipate this information is adequate for your review of the project. Please do not hesitate to contact us should you need any additional information.

Very truly yours,  
**TIGHE & BOND, INC.**



Jean E. Christy, P.E.  
Project Engineer

Enclosures: Proposed Boundary Corner Point Plan  
Site Plans  
Panel Specification Sheet

J:\R\R0298\Permitting\Pomfret CT Siting Council\FAA\Woods Hill Solar FAA Filing.doc



**PRELIMINARY**  
FOR PERMIT ONLY

Permit Set

Woods Hill  
Solar Project

Woods Hill Road  
Solar, LLC

Pomfret,  
Connecticut

**VERIFY SCALE**

BAR IS 1 INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

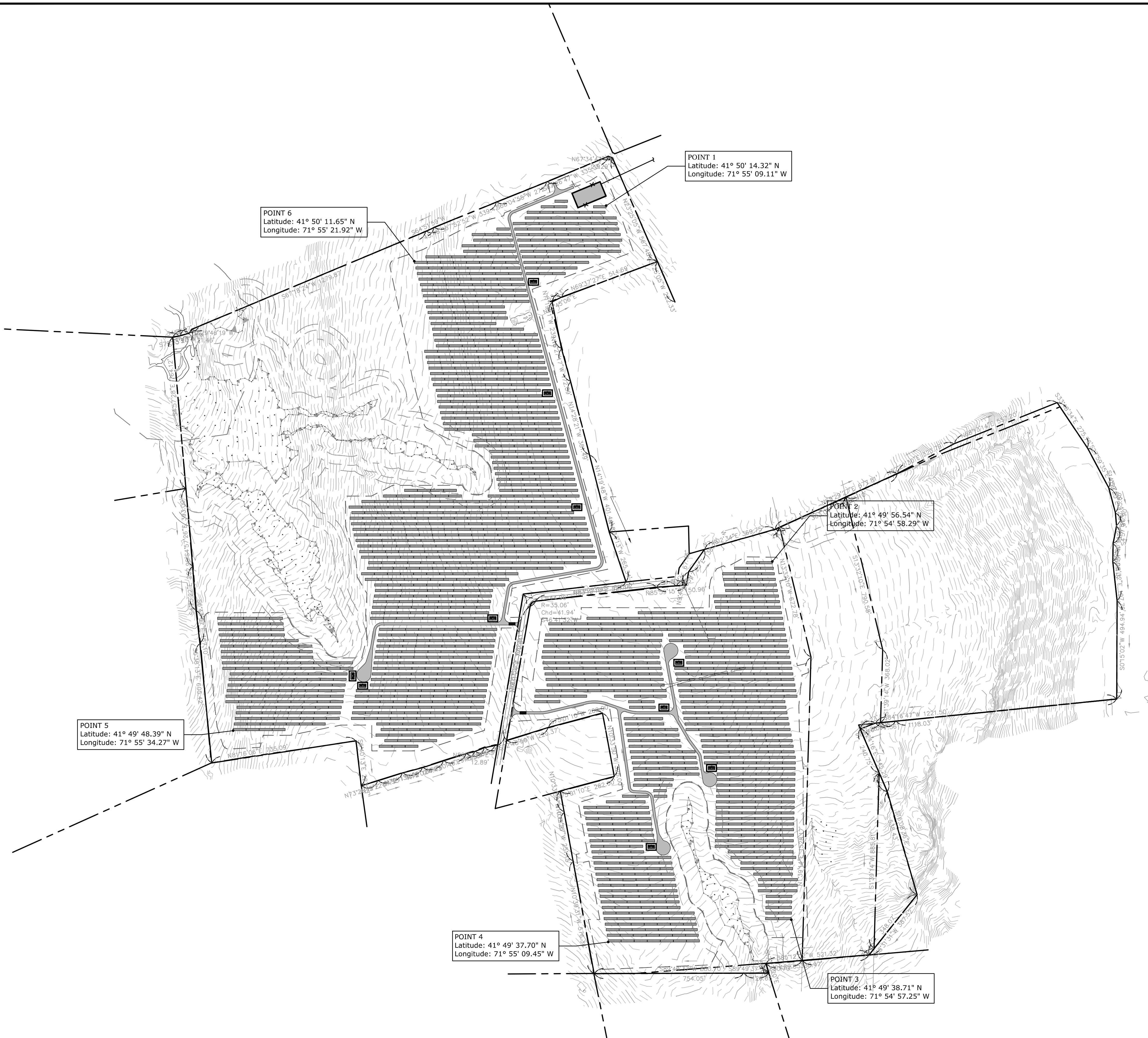
MARK	DATE	DESCRIPTION

PROJECT NO:	R-0298
DATE:	2015/12/30
FILE:	FAA Filing Figure.dwg
DRAWN BY:	DCM
CHECKED:	BA/BSH
APPROVED:	FJH

**PROPOSE CONDITIONS  
FAA OBSTRUCTION  
EVALUATION FILING**

SCALE: 1" = 250'

**FIGURE 1**



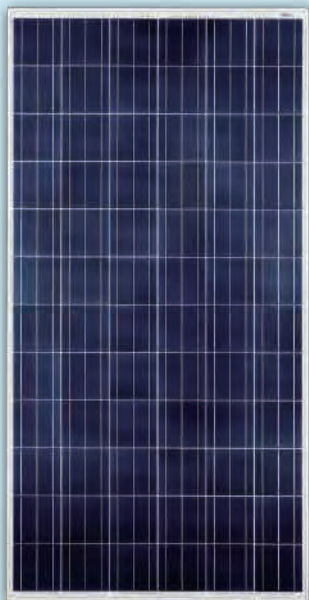
Last Saved: 3/22/2016 11:02am By: jec  
 Plotted On: Mar 22, 2016 11:02am  
 Tighe & Bond - 3380288 - Permitting - Pomfret, CT - Slings, Council/FAA/FAA Filing Figure.dwg



## JAP6

72/300-320/3BB

MULTICRYSTALLINE SILICON MODULE



### JA Solar Holdings Co., Ltd.

JA Solar Holdings Co., Ltd. is a world-leading manufacturer of high-performance photovoltaic products that convert sunlight into electricity for residential, commercial, and utility-scale power generation. The company was founded on May 18, 2005, and was publicly listed on NASDAQ on February 7, 2007. JA Solar is one of the world's largest producers of solar cells and modules. Its standard and high-efficiency product offerings are among the most powerful and cost-effective in the industry.

Address: NO.36, Jiang Chang San Road, Zhabei, Shanghai 200436, China

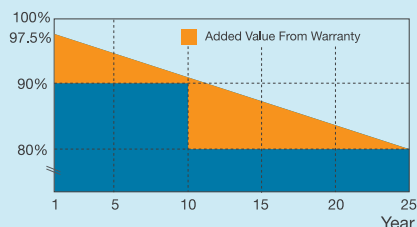
TEL: +86 21 6095 5888 / +86 21 6095 5999

Fax: +86 21 6095 5858 / +86 21 6095 5959

Email: sales@jasolar.com market@jasolar.com

### Superior Warranty

- 10-year product warranty
- 25-year linear power output warranty



### Key Features



Multicrystalline modules designed for commercial and solar farm grid-tied applications



High output, 16.51% highest conversion efficiency



Designed for IEC DC 1000V applications



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Outstanding performance in low-light irradiance environments



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

### Reliable Quality

- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

### Comprehensive Certificates

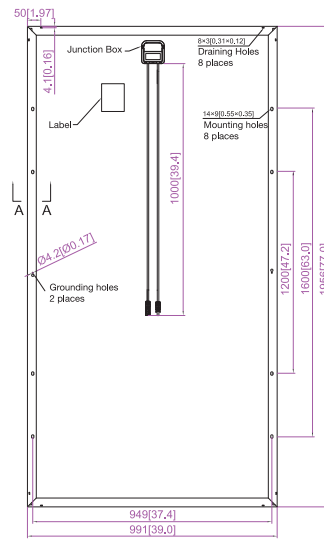
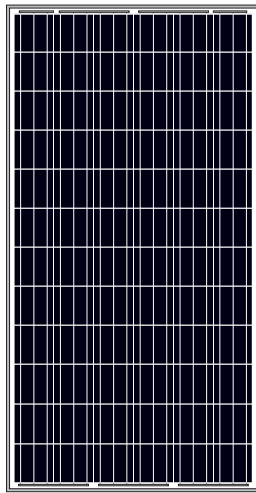
- IEC 61215, IEC 61730, UL1703, CEC Listed, MCS and CE
- ISO 9001: 2008: Quality management systems
- ISO 14001: 2004: Environmental management systems
- BS OHSAS 18001: 2007: Occupational health and safety management systems
- Environmental policy: The first solar company in China to complete Intertek's carbon footprint evaluation program and receive green leaf mark verification for our products



Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.



## Engineering Drawings



### MECHANICAL PARAMETERS

Cell (mm)	Poly 156x156
Weight (kg)	26 (approx)
Glass Thickness	4 mm
Dimensions (LxWxH) (mm)	1956x991x45
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	72 (6x12)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	23 Per Pallet

### WORKING CONDITIONS

Maximum System Voltage	DC 1000V (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	15A
Maximum Static Load, Front (e.g., snow and wind)	5400Pa (112 lb/ft <sup>2</sup> )
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Application Class	Class A

### ELECTRICAL PARAMETERS

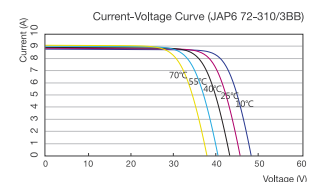
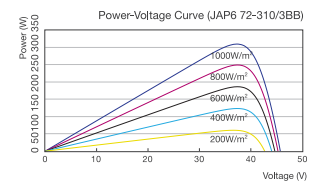
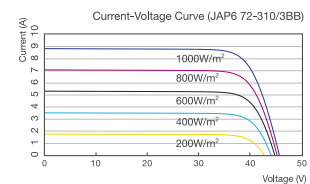
TYPE	JAP6 72-300/3BB	JAP6 72-305/3BB	JAP6 72-310/3BB	JAP6 72-315/3BB	JAP6 72-320/3BB
Rated Maximum Power at STC (W)	300	305	310	315	320
Open Circuit Voltage (Voc/V)	45.20	45.35	45.45	45.60	45.82
Maximum Power Voltage (Vmp/V)	36.41	36.71	37.00	37.28	37.56
Short Circuit Current (Isc/A)	8.73	8.79	8.85	8.91	9.03
Maximum Power Current (Imp/A)	8.24	8.31	8.38	8.45	8.52
Module Efficiency [%]	15.48	15.73	15.99	16.25	16.51
Power Tolerance (W)	-0~+5W				
Temperature Coefficient of Isc (αIsc)	+0.058%/°C				
Temperature Coefficient of Voc (βVoc)	-0.330%/°C				
Temperature Coefficient of Pmax (γPmp)	-0.410%/°C				
STC	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5				

### NOCT

TYPE	JAP6 72-300/3BB	JAP6 72-305/3BB	JAP6 72-310/3BB	JAP6 72-315/3BB	JAP6 72-320/3BB
Max Power (Pmax) [W]	217.80	221.43	225.06	228.69	232.32
Open Circuit Voltage (Voc) [V]	42.31	42.47	42.58	42.63	42.78
Max Power Voltage (Vmp) [V]	33.77	33.91	34.05	34.08	34.28
Short Circuit Current (Isc) [A]	6.89	6.93	6.99	7.06	7.16
Max Power Current (Imp) [A]	6.45	6.53	6.61	6.71	6.78

Condition Under Normal Operating Cell Temperature, Irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s

### I-V CURVE



**EXHIBIT Q:**  
Carbon Debt Analysis

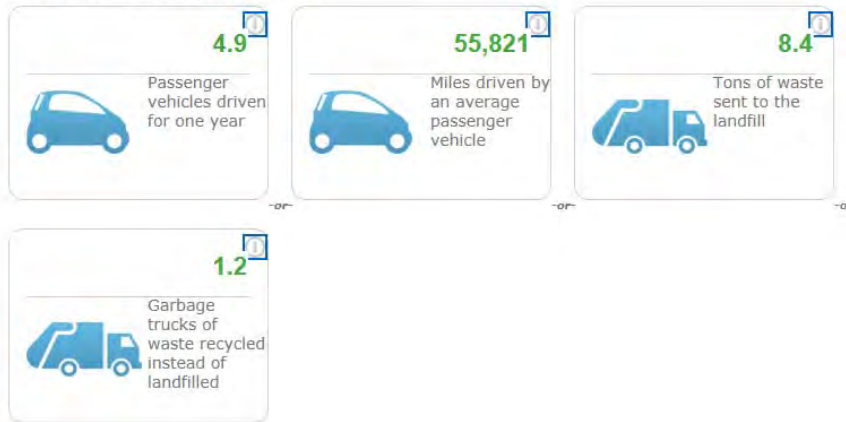
# Equivalency Results of a 20MW Solar Project in New England



The sum of the greenhouse gas emissions you entered above is of Carbon Dioxide Equivalent. This is equivalent to:

25.8

## Greenhouse gas emissions from



## CO<sub>2</sub> emissions from



## Carbon sequestered by



Source: EPA.Gov

## **EXHIBIT R:**

Phase 1 Environmental Site Assessment Reports



Woods Hill Solar Project, Pomfret







R-02184-04  
January 26, 2016

Daniel Boyd  
Sr. Director, Development  
RES America Developments, Inc.  
11101 W. 120<sup>th</sup> Avenue, Suite 400  
Broomfield, CO 80021

Tom Swank, Chairman  
SunEast Power, LLC  
142 Ferry Road, Suite 12  
Old Saybrook, CT 06475

Re: **Phase I Environmental Site Assessment  
Woods Hill Road Solar Project  
90 Woods Hill Road  
Pomfret, Connecticut**

Dear Mr. Boyd and Mr. Swank:

Please find enclosed the Phase I Environmental Site Assessment (ESA) report for the property located at 90 Woods Hill Road in Pomfret, Connecticut.

We appreciate the opportunity to provide our services. If you have any questions or comments, please call Jim Olsen at (860) 704-4761.

Very truly yours,

**TIGHE & BOND, INC.**

Nicholas A. Granata, LEP  
Senior Environmental Scientist

James T. Olsen, LEP  
Vice President





**90 Woods Hill Road  
Pomfret, Connecticut**

## **Phase I Environmental Site Assessment**

Prepared For:

RES America Developments, Inc.  
SunEast Power, LLC

January 2016

**Cover Letter**

**Section 1 Introduction**

1.1 Purpose ..... 1-1  
1.2 Scope of Work ..... 1-1

**Section 2 Site Description**

2.1 Location and Legal Description ..... 2-1  
2.2 Site and Vicinity Characteristics ..... 2-1  
2.3 Current Use ..... 2-1  
2.4 Site Improvements ..... 2-1  
2.5 Surrounding Area Uses ..... 2-1

**Section 3 User Provided Information**

3.1 Land Records ..... 3-1  
3.2 Specialized Knowledge ..... 3-1  
3.3 Common Information ..... 3-1  
3.4 Value Reduction of Environmental Issues ..... 3-1  
3.5 Owner and Occupant Information ..... 3-1

**Section 4 Previous Environmental Reports**

**Section 5 Records Review**

5.1 Standard Environmental Records Search ..... 5-1  
5.1.1 Subject Site ..... 5-2  
5.1.2 Surrounding Properties ..... 5-2  
5.1.3 Orphan Site Summary ..... 5-3  
5.2 Additional Environmental Records Sources ..... 5-3  
5.3 Physical Setting ..... 5-3  
5.3.1 Soil Information ..... 5-3  
5.3.2 Geology ..... 5-4  
5.3.3 Flood Plain, Wetlands, and Aquifer Protection Area Information .. 5-4  
5.3.4 Groundwater Classification and Flow ..... 5-5  
5.4 Historic Use Information ..... 5-5  
5.4.1 Directories ..... 5-5  
5.4.2 Aerial Photographs ..... 5-5  
5.4.3 Topographic Maps ..... 5-6  
5.4.4 Sanborn Fire Insurance Maps ..... 5-7  
5.5 Historic Adjoining Property Use ..... 5-7

**Section 6 Site Reconnaissance**

6.1 Methodology ..... 6-1

6.2 Site Setting ..... 6-1  
6.3 Observations ..... 6-1  
6.4 PCB and Petroleum Containing Equipment ..... 6-2  
6.5 Hazardous Substances and Waste ..... 6-2  
6.6 Adjoining Property Observations ..... 6-2

**Section 7 Interviews**

7.1 Owner ..... 7-1  
7.2 Occupants ..... 7-1  
7.3 Local Government ..... 7-1  
    7.3.1 Tax Assessor ..... 7-1  
    7.3.2 Building/Planning/Zoning, and Health Departments ..... 7-1  
    7.3.3 Fire Department ..... 7-1

**Section 8 Additional Services**

8.1 Hazardous Building Materials ..... 8-1  
8.2 Radon ..... 8-1  
8.3 Regulatory Compliance ..... 8-1  
8.4 Cultural and Historic Resources ..... 8-1  
8.5 Industrial Hygiene, Indoor Air, and Mold ..... 8-1  
8.6 Health and Safety ..... 8-1  
8.7 Ecological Resources and Endangered Species ..... 8-1

**Section 9 Summary and Recommendations**

9.1 Summary ..... 9-1  
9.2 Recommendations ..... 9-2

**Section 10 Environmental Certification**

10.1 Deviations ..... 10-1  
10.2 Limitations ..... 10-1  
10.3 Reliance ..... 10-2  
10.4 Environmental Professional Signature ..... 10-3



**Appendices**

Appendix A

- Figure 1 Site Location Map
- Figure 2 Aerial Photograph
- Figure 3 Soils Map
- Figure 4 Surficial Materials Map
- Figure 5 Bedrock Geology Map
- Figure 6 Environmental Resources Map
- Figure 7 Water Classification Map

Appendix B Property Cards, Survey, and User Questionnaire

Appendix C Site Photographs

Appendix D EDR Report

Appendix E Historic Topographic Maps and Historic Aerial Photographs

**List of Acronyms and Definitions**

AAI	All Appropriate Inquiries
AOC	Area of Concern
MSL	Mean Sea Level
APA	Aquifer Protection Area
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
Bgs	Below Ground Surface
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CERC-NFRAP	Comprehensive Environmental Response Compensation and Liability Information System Archived sites
CFR	Code of Federal Regulations
CGS	Connecticut General Statute
COC	Contaminant of Concern
COR	Corrective Action sites
CPCS	Contaminated or Potentially Contaminated sites
CTDEEP	CT Department of Energy and Environmental Protection
DECD	CT Department of Economic and Community Development
DOT	Department of Transportation
Federal EC/IC	Federal Engineering and Institutional Controls
State EC/IC	State Engineering and Institutional Controls
EDR	Environmental Data Resources Inc.
ERNS	Emergency Response Notification System
ESA	Environmental site Assessment
ETPH	Extractable Total Petroleum Hydrocarbons
FEMA	Federal Emergency Management Agency
GA PMC	Groundwater Area Pollutant Mobility Criteria
HBMA	Hazardous Building Materials Assessment
LEP	Licensed Environmental Professional
LUST	Leaking Underground Storage Tank
LWDS	CT Leachate and Waste Water Discharge Inventory Data Layer
NDDH	Northeast District Department of Health
NPL	National Priorities List

---

NRCS	Natural Resource Conservation Survey
Pci/L	Picocuries per liter
RCRA	Resource Conservation and Recovery Act
RCRA COR ACT	Recovery Act Corrective Actions
RCRA GEN	RECRIS Generator sites
RCRA TSD	RECRIS Treatment, Storage, and Disposal Facilities
REC	Recognized Environmental Condition
RECRIS	Resource Conservation and Recovery Information System
SDADB	Site Discovery and Assessment Database
SPLP	Synthetic Precipitation Leaching Procedure
SVOCs	Semi-Volatile Organic Compounds
SWL	Solid Waste Landfill
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VCP	Voluntary Remediation Program sites
VOCs	Volatile Organic Compounds
WQS	Water Quality Standards
WSS	Web Soil Survey

# Section 1

## Introduction

### 1.1 Purpose

Tighe & Bond, Inc. (Tighe & Bond) has completed a Phase I Environmental Site Assessment (ESA) on behalf of RES America Developments, Inc. (RES, Client) for the property located at 90 Woods Hill Road, in Pomfret, Connecticut. The site includes an approximately 114-acre parcel of land located to the west of Woods Hill Road.

The purpose of the Phase I ESA was to assess the site for evidence of recent or historical Recognized Environmental Conditions (RECs) / Areas of Concern (AOCs) in general accordance with guidelines described in ASTM E1527-13 and CTDEEP Site Characterization Guidance Document. It is our understanding that this Phase I ESA was conducted in order to facilitate the possible development of the site as a commercial scale solar PV project.

The site location is shown on Figure 1 (Appendix A).

### 1.2 Scope of Work

The Phase I ESA was conducted in accordance with our proposal dated May 20, 2015. This Phase I ESA was conducted to identify Recognized Environmental Conditions (RECs), also identified as Areas of Concern (AOCs), as applicable resulting from past or present activities on the site and to determine if any of the surrounding properties have the potential to impact the environmental integrity of the site. The assessment consisted of a reconnaissance of accessible areas at the site, a review of State and Federal environmental databases as they pertain to the site and surrounding properties, a review of historical aerial photographs, topographic maps, Sanborn maps, and city directories for the site and surrounding properties, a review of available state and local records, and interviews with individuals knowledgeable about the site.

This Phase I ESA was conducted in a manner consistent with industry standard and practice and in general accordance with the Standards of the American Society for Testing and Materials (ASTM) E1527-13 Standard Practice for Environmental site Assessments, EPA's All Appropriate Inquiry, and the Connecticut Department of Energy and Environmental Protection (CTDEEP) *site Characterization Guidance Document, dated September 2007* (revised December 2010).



## **Section 2**

### **Site Description**

#### **2.1 Location and Legal Description**

The site consists of a parcel designated with Property Identification Number CT-112-43-A-004.00 by the Town of Pomfret's Tax Assessor's office. According to the Town of Pomfret's Tax Assessor's Parcel Maps, the site is comprised of approximately 114 acres of land and is currently owned by Charles H Tyler & William F III.

Refer to Figure 1 and Figure 2 for a Site Location Map and an Aerial Photograph, respectively. A copy of the Property Card and a legal description of the site is included in Appendix B.

#### **2.2 Site and Vicinity Characteristics**

The site is located to the west of Woods Hill Road. The site is bounded to the west and north by undeveloped land; to the east by agricultural land and a residential property; and to the south by agricultural land and residential properties.

The site and the areas north and east of the site are zoned by the Town of Pomfret Zoning Map as Commercial Business. The areas west and south of the site are zoned as rural residential.

#### **2.3 Current Use**

The site is currently unoccupied and has is used as an agricultural farm for harvesting hay.

#### **2.4 Site Improvements**

The majority of the site is cleared agricultural land, with the exception of wooded area in the northwest portion. Access to the site is provided by Woods Hill Road.

A site aerial is provided as Figure 2 (Appendix A). Photographs taken at the time of the site visit are provided in Appendix C.

#### **2.5 Surrounding Area Uses**

The following uses were noted for properties abutting the site:

- North: Undeveloped forested land.
- South: Residential properties along Woods Hill Road and agricultural land.
- East: Agricultural land, a residential property, and the Quinebaug River.
- West: Undeveloped forested land and White Brook.

## **Section 3**

# **User Provided Information**

### **3.1 Land Records**

Tighe & Bond did review deeds for the site as part of this Phase I ESA for the purpose of identifying general ownership history. A legal title and lien search was not part of this scope of work.

Any environmental liens or activity and use limitations information in the possession of the User is required to be reported to the Environmental Professional conducting the Phase I ESA per ASTM E1527-13. According to the RES, no environmental liens or activity and use limitations exist for the site.

### **3.2 Specialized Knowledge**

Specialized knowledge is defined by ASTM E1527-13 as “any specialized knowledge or experience that is material to RECs or AOCs in connection with the property.”

No information related to “specialized knowledge” for environmental issues was provided by the User as part of this Phase I ESA. The User was not aware of other former activities at the site except agricultural use.

### **3.3 Common Information**

If the User is aware of any commonly known or reasonably ascertainable information within the local community about the property that is material to RECs or AOCs in connection with the property, it is the User’s responsibility to communicate such information. This information may include past uses of the property, specific chemicals that were used on a site, spills or releases, or environmental cleanups that have taken place.

No information related to “common information” for environmental issues was provided by the User as part of this Phase I ESA. The User was unaware of spills, releases, or environmental cleanups having taken place at the site.

### **3.4 Value Reduction of Environmental Issues**

In a transaction involving the purchase of a parcel of commercial real estate, the User shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. The User should try to identify an explanation for a lower price which does not reasonably reflect fair market value if the property were not contaminated. The User is not aware of any value reduction for environmental issues.

### **3.5 Owner and Occupant Information**

The site is currently owned by Charles H Tyler & William F III. Refer to Section 7 for a more detailed discussion.

## **Section 4**

# **Previous Environmental Reports**

Previous environmental assessments for the site were not identified or provided during this ESA.

## Section 5

### Records Review

#### 5.1 Standard Environmental Records Search

A database search report that identifies sites listed on state and federal databases within the ASTM-required radii was obtained for the site from Environmental Data Resources Inc. (EDR) on October 19, 2015. A copy of the complete EDR report is provided as Appendix D.

The report includes the following databases specified by the ASTM Phase I protocol:

<u>Database</u>	<u>Search Radius</u>	<u>Total sites Identified</u>
National Priority List (NPL)	1 mile	0
NPL Delisted	0.5 mile	0
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)	0.5 mile	1
No Further Remedial Action Planned (CERC-NFRAP) Comprehensive Environmental Response Compensation and Liability Information System Archived sites	0.5 mile	1
Resource Conservation and Recovery Information System (RECRIS), Resource Conservation and Recovery Act Corrective Actions (RCRA CORRACT)	1 mile	1
RECRIS Treatment, Storage, and Disposal Facilities (RCRA TSD)	0.5 mile	1
RECRIS Generator sites (RCRA GEN)	0.25 mile	0
Federal Engineering and Institutional Controls (Federal IC/EC)	0.50 mile	0
Emergency Response Notification System (ERNS)	0.12 mile	0
State- and tribal-equivalent CERCLIS	1 mile	2
CT Leachate and Waste Water Discharge Inventory Data Layer (LWDS)	0.25 mile	0
State/Tribal Leaking Underground Storage Tank (LUST)	0.5 mile	1
Regulated State Underground Storage Tank (UST) and Aboveground Storage Tank database (AST)	0.25 mile	0
State Engineering or Institutional Controls (State IC/EC)	0.25 mile	0
Voluntary Remediation Program sites (VCP)	0.5 mile	0
US Brownfields sites	0.5 mile	0
CTDEEP Contaminated and Potentially Contaminated sites (State sites)	0.5 mile	0
CT Significant Environmental Hazard	0.25 mile	0



A description of the databases, additional sources searched, and a complete listing of sites identified on the databases is provided in the EDR report.

Tighe & Bond evaluated the following to determine whether additional environmental records with respect to these facilities, including the orphan (non-geocoded) sites, should be reviewed.

- Case status (i.e., whether a No Further Action letter has been issued or a case has been closed)
- Type of database and whether the presence of soil or groundwater contamination is known
- Distance of the property from the site
- Whether the property is hydrogeologically up gradient or down gradient of the site based on local topography and an inferred northwestern groundwater flow direction

Tighe & Bond reviewed the information provided using the above criteria and the findings are discussed in the following sections.

### **5.1.1 Subject Site**

The site was not identified in any of the environmental databases queried in the EDR report.

### **5.1.2 Surrounding Properties**

Three properties were identified in the EDR, their information is summarized below. The three properties are located hydrogeologically down-gradient to the site; as such, it is unlikely that releases at these properties would impact the site.

#### **5.1.2.1 Maiorino Residence, 426 Church Street – 0.2 Miles South**

This property was listed in the Leaking UST (LUST), and CPCS databases. On March 17, 1997 a LUST was reported noting that 500 gallons of #2 Fuel Oil leaked out of fuel lines into a tank grave. A former UST was previously removed from the ground; however, the lines were left in place and the contents leaked into the soil. The soil and septic system were removed from the ground. The LUST status is listed as "Pending". The property was cross listed in the CPCS database with the same description, with the status listed as "Investigation".

#### **5.1.2.2 Rogers Corporation, 1 Technology Drive – 0.4 Miles Northeast**

This property was listed in several databases including the Manifest, RCRA-LOG, ENF, CERC-NFRAP, RCRA-TSDF, CORRACTS, Financial Assurance, 2020 Corrective Action, and US AIRS databases. The Manifest database listing indicates that the Rogers Corporation generates several different hazardous wastes including Petroleum Oil, Mercury, non-listed corrosive wastes, and non-listed ignitable wastes. The CERC-NFRAP database indicates that the property has been archived and a preliminary assessment and site inspection have been conducted. The property is listed as low priority for further assessment. The listing on the RCRA-TSDF database indicates that Rogers Corporation is a Large Quantity Generator and engaged in the treatment, storage, or disposal of hazardous waste. The database lists details about each type of hazardous waste generated by the facility. The listing on the CORRACTS database indicates that the facility was assigned a high corrective action priority for unlaminated plastics film and

sheet manufacturing. Actions indicate that the current human exposures are under control and the migration of contaminated groundwater is under control.

The RCRA-LQG, ENR, Financial Assurance, 2020 Cor Action, and US AIRS databases have no additional details for the property.

### 5.1.2.3 CT DOT Searles Rd Disposal Facility, Pomfret Rd – 0.5 Miles Southwest

This property was listed on the SDADB, CPCS, SHWS, and CERCLIS databases. The SDADB database listing indicates that the property disposed of Chlorinated Volatile Organic Compound Solvent wastes into a landfill. The property is listed under the Superfund remediation program. The CPCS database listing indicates that the property is under study by the DOT and the site type definition is listed as "Inventory of Hazardous Waste Disposal Sites". No additional information was provided on the SHWS database. The CERCLIS database indicates that the property cleanup is State-Lead and EPA Fund-Financed. The property is also listed as a low priority for further assessment.

### 5.1.3 Orphan Site Summary

Due to poor or inadequate address information, six orphan properties were not mapped as part of the EDR report. As such, distance, topographical, and presumed hydrogeological measurements relative to the site are unknown. Based on our review of information provided for these properties, three of the properties are already mapped and include Rogers Corporation (which was listed two times) and the CT DOT Searles Rd Disposal Facility. Three additional properties do not appear to be within the one mile search radius of the site.

## 5.2 Additional Environmental Records Sources

Tighe & Bond visited the CTDEEP Public File Room on October 20, 2015 and conducted a municipal file review on November 4, 2015 to request available files for the site. Environmentally pertinent information was not identified on file for the site.

## 5.3 Physical Setting

### 5.3.1 Soil Information

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey (WSS) for the State of Connecticut (NRCS Webpage, 2009), the soils at the site are identified within the table below.

Soil Type	Approx. Area	Description
Woodbridge fine sandy loam	31%	Moderately well drained fine sandy loam found on drumlins, ground moraines, and hills
Woodbridge fine sandy loam, extremely stony	27%	Moderately well drained fine sandy loam found on drumlins, ground moraines, and hills
Canton and Charlton soils, extremely stony	9%	Well drained gravelly loam found on hills
Ridgebury, Leicester, and Whitman soils, extremely stony	8%	Poorly drained, sandy loam, found in depressions, drainage ways, ground moraines, and hills
Paxton and Montauk fine sandy loams	7%	Well drained fine sandy loam found on drumlins, ground moraines, and hills

Woodbridge fine sandy loam	6%	Moderately well drained fine sandy loam found on drumlins, ground moraines, and hills
Canton and Charlton soils	<5%	Well drained gravelly loam found on hills
Ridgebury fine sandy loam	<5%	Poorly drained fine sandy loam found in depressions and drainage ways
Woodbridge fine sandy loam, very stony	<5%	Moderately well drained fine sandy loam found on drumlins, ground moraines, and hills
Paxton and Montauk fine sandy loams, very stony	<2%	Well drained fine sandy loam found on drumlins, ground moraines, and hills
Rippowam fine sandy loam	<2%	Poorly drained fine sandy loam found in flood plains

Surficial materials underlying the site consist of thick till, sand and gravel, and sand and gravel overlying sand. A description of these surficial materials is as follows:

**Thick Till:** Areas where till is greater than 10 to 15 feet thick and includes drumlins. Predominately lower till; moderately to very compact, fine grained, less stony than upper till.

**Sand and Gravel:** Composed of mixtures of gravel and sand within individual layers and as alternating layers. Sand and gravel layers generally range from 25 to 50 percent gravel particles and from 50 to 75 percent sand particles. Layers are well to poorly sorted.

**Sand and Gravel overlying Sand:** Sand and gravel is generally less than 20 feet thick, horizontally bedded, and overlies thicker, inclined layers of sand (deltaic deposits).

A soils map of the site is provided as Figure 3. A surficial materials map of the site is provided as Figure 4.

### 5.3.2 Geology

According to the *Bedrock Geologic Map of Connecticut* (U.S. Geological Survey, 1985), approximately 90% of the site is located within the Quinebaug Formation. The USGS Mineral resources spatial data for Connecticut on-line describes this unit as gray to dark-gray, medium-grained, well-layered gneiss.

Approximately 10% of the eastern part of the site is located within the Felsic gneiss member of the Quinebaug Formation. The USGS Mineral resources spatial data for Connecticut on-line describes this unit as light to medium-gray, fine to medium-grained gneiss.

A bedrock geology map of the site is provided as Figure 5.

### 5.3.3 Flood Plain, Wetlands, and Aquifer Protection Area Information

A review of the Federal Emergency Management Agency (FEMA) Flood Insurance Maps indicates that the site is not located within a flood zone for the Quinebaug River and White Brook. According to the National Wetlands Inventory and CTDEEP Wetlands GIS databases, wetlands are present on the site. Several wetland areas are present across the site.

According to information provided by the Town of Pomfret's Inland Wetlands & Watercourse Department there are three main areas of wetlands. The town of Pomfret, CT is not included in the current CTDEEP GIS data for Aquifer Protection Areas (APAs).

Flood Plains, Wetlands, Aquifer Protection areas are provided as Figure 6 (Environmental Resources Map).

### 5.3.4 Groundwater Classification and Flow

According to the CTDEEP Bureau of Water Protection & Land Reuse, groundwater at the site is classified as GA. CTDEEP Water Quality Standards (WQS; effective April 12, 1996) indicate that GA groundwater is designated for use with existing private and potential public or private supplies of water suitable for drinking without treatment. Discharge in GA groundwater areas is restricted to treated domestic sewage, certain agricultural wastes, certain water treatment wastewaters and discharge from septage treatment facilities subject to stringent treatment and discharge requirements, and other wastes of natural origin that easily biodegrade and present no threat to groundwater.

Based on topography of the site, shallow overburden groundwater on the site is inferred to flow generally northwest towards White Brook.

The White Brook and other unnamed wetland areas on the site are classified as Class A. CTDEEP indicates that Class A surface water is designated for use as potential drinking water supply; fish and wildlife habitat; recreational use; agricultural and industrial supply and other legitimate uses including navigation. Discharges are restricted to discharges from public or private drinking water treatment systems, dredging and dewatering, emergency and clean water discharges.

According to CTDEEP, the Quinebaug River is classified as B. CTDEEP indicates that Class B surface water is designated uses are habitat for fish and aquatic life and wildlife; recreation; navigation; and industrial and agricultural waters supply. Discharges are restricted to discharges from public or private drinking water systems, dredging and dewatering, emergency and clean water discharges, cooling waters, and discharges from industrial and municipal wastewater treatment facilities.

Figure 7 shows the water classification areas and surface water bodies for the site.

## 5.4 Historic Use Information

Historical street directories, aerial photographs, topographic maps, and Sanborn fire insurance maps were reviewed for the site and surrounding areas.

### 5.4.1 Directories

Historical street directories from 1936 to 2015 were researched at the Connecticut State Library in Hartford, Connecticut on October 27, 2015. Woods Hill road was not listed until the 1997 directory. From 1997 through 2012, Nabozny is listed as the occupant of 13 Woods Hill Road. From 1999 through 2002, Tyler W. F. Jr. is listed as the occupant for 90 Woods Hill Road. Woods Hill Road is not listed in the 2014/2015 directory.

Additionally, street directories from 1993 to 2013 were requested as part of the EDR report. The site was not listed in any of the directories researched. Copies of these documents are provided with the EDR report in Appendix D.

### 5.4.2 Aerial Photographs

Historical aerial photographs of the site and surrounding area dated 1941, 1951, 1963, 1969, 1980, 1986, 1990, 1991, 1996, 2005, 2006, 2008, 2010, and 2012 were reviewed through the EDR report. Below is a summary of the site and surrounding properties. Aerial photographs are included in Appendix E.



Aerial Photographs		
Year	The Site	Surrounding Properties
1941	The majority of the site is cleared agricultural land. Quinebaug River is also depicted in this aerial.	The site is surrounded by undeveloped wooded land. Several buildings appear across Quinebaug River to the northeast of the site. A structure is depicted at the terminus of Woods Hill Road.
1951	The site appears similar to the 1941 aerial. The northwestern area of the site is starting to become forested.	The surrounding area appears similar to the 1941 aerial. A portion of the forested land south of the site is now cleared agricultural land. Four structures are depicted at the terminus of Woods Hill Road.
1963	The site appears similar to the 1951 aerial photograph.	The surrounding area appears similar to the 1951 aerial.
1969	The site appears similar to the 1963 aerial.	The surrounding area appears similar to the 1963 aerial. A few structures are depicted on the east side of Woods Hill Road.
1980	No changes are apparent; however, the photograph is of poor quality. The northwestern area of the site appears forested in this aerial.	The surrounding area appears similar to the 1969 aerial.
1986	The site appears similar to 1980 photograph.	The surrounding area appears similar to the 1980 aerial. Only one structure is depicted at the terminus of Woods Hill Road.
1990 to 1996	The site appears similar to the 1986 photograph.	The surrounding area appears similar to the 1986 aerial. The area south of the site is cleared and several residences are depicted in this aerial.
2005 to 2012	The site appears similar to the 1996 photograph.	Surrounding properties appear similar to the 1996 photograph.

### 5.4.3 Topographic Maps

Tighe & Bond reviewed available online historic USGS topographic maps for the years: 1893, 1915, 1943, 1947, 1955, and 1970. A summary of the site and surrounding properties is listed below.

Topographic Maps		
Year	The Site	Surrounding Properties
1893	The site elevation varies from approximately 240 to 390 feet above mean sea level (MSL). The site slopes to the northwest towards White Brook. The Quinebaug River and White Brook are depicted on the map. Woods Hill Road is also depicted on the map. In the northwestern extent of the site wetlands are depicted along White Brook.	Topography slopes away from the site towards Quinebaug River to the east, White Brook to the west, and Long Brook to the south. Surrounding properties have sparse buildings. One building is depicted at the terminus of Woods Hill Road to the east of the site.
1915	The site appears similar to the 1893 topographic map.	The surrounding area appears similar to the 1893 map.

Topographic Maps		
Year	The Site	Surrounding Properties
1943	Woods Hill Road and the aforementioned building are not depicted on the map.	The surrounding area appears similar to the 1915 topographic map. No buildings are depicted on surrounding properties.
1947	The site elevation varies from approximately 200 to 390 feet above mean seal level (MSL). There is one location marked 391 feet above MSL on the eastern boundary of the site. The site slopes to the northwest towards White Brook. The Quinebaug River and White Brook are depicted on the map. The electrical line easement that runs through eastern adjacent parcel is also depicted on the map. One building is depicted to the east of the site.	The surrounding area appears similar to the 1943 topographic map. Topography slopes away from the site towards wetland areas to the west, south, and east of the site. The building is located at the terminus of Woods Hill Road.
1955	The site appears similar to the 1947 topographic map.	The surrounding area appears similar to the 1947 topographic map. Three buildings are depicted east of the site.
1970	The site appears similar to the 1955 topographic map. One of the buildings depicted in the 1955 map is no longer present. Only two buildings are depicted east of the site.	The surrounding area appears similar to the 1955 topographic map.

**5.4.4 Sanborn Fire Insurance Maps**

Sanborn fire insurance maps of the site were requested through the EDR report. No Sanborn maps were available for the site.

**5.5 Historic Adjoining Property Use**

Historically, properties surrounding the site have consisted of residential land, agricultural land, undeveloped/forested land, and a large Connecticut Light & Power transmission line and right of way to the east.

## **Section 6**

# **Site Reconnaissance**

### **6.1 Methodology**

Tighe & Bond conducted a Phase I ESA site reconnaissance on November 4, 2015. Reconnaissance at the site included a walk-through for the purpose of identifying RECs and AOCs. Photographs taken during the reconnaissance are included in Appendix C.

A visual assessment of adjoining properties from the subject property line, public rights-of-way or other vantage points (e.g. aerial photography) including a visual assessment where hazardous substances may be or may have been stored, treated, handled or disposed was also conducted.

### **6.2 Site Setting**

The site was comprised of undeveloped agricultural land and forested areas on the northwest side. The site topography sloped gradually west. Several stone walls were observed throughout the site. A vehicle access road was observed along the perimeter of the agricultural land. An existing footpath was used to walk through the forested areas. Several wetland areas were observed in the forested area.

### **6.3 Observations**

Tighe & Bond personnel viewed visible and accessible parts of the site and made the following observations:

- Several stone walls were observed throughout the site along property boundaries and within the forested area.
- Organic soil piles were observed in the northeast area of the site along the wooded tree line. One plastic container and a plastic trash can were observed in the area around the soil piles.
- A camper trailer was located on the agricultural land on the southeast side of the site adjacent to Wood Hill Road.
- An existing footpath used to walk through the forested areas. Several hunting platforms were observed in trees. Forested areas were observed from the footpath, which was surrounded by trees and brier. The ground was covered in leaves at the time of the site walk.
- Several survey flags and wetland marking flags were observed throughout the forested area. Areas with perennial streams were observed and were dry at the time of the site walk.
- Two piles of rocks and wooden boards were observed in the forested area on the western side of the site. A piece of scrap metal was observed in the forested area on the northern side of the site.

Photographs taken during the site reconnaissance are included in Appendix C.

## 6.4 PCB and Petroleum Containing Equipment

PCB containing equipment was not observed during the site reconnaissance.

## 6.5 Hazardous Substances and Waste

Hazardous substances or waste were not observe at the site.

## 6.6 Adjoining Property Observations

The purpose of the reconnaissance was to observe general land use in the area of the site and confirm the location of the facilities identified on the environmental database search. In general, the surrounding property uses consist of undeveloped forested land, agricultural land, and residential properties. The following information pertaining to the adjacent properties was compiled from the site reconnaissance and the Town of Pomfret's Tax Assessor GIS database.

- North: Undeveloped forested land.
- South: Agricultural land, Woods Hill Road, and residential property.
- East: Undeveloped forested land, agricultural land, a large Connecticut Light & Power transmission line, a residential property, and Woods Hill Road.
- West: Undeveloped forested land.



## **Section 7**

# **Interviews**

### **7.1 Owner**

The site is currently owned by the Charles H Tyler & William F III. Employees of the Town of Pomfret and Charles Tyler were interviewed as part of this Phase I ESA. Charles Tyler completed the User Questionnaire.

Based on responses included in the User Questionnaire the above individuals are not aware of any existing or former USTs or ASTs, current buildings, or spills and/or releases at the site. Additionally, they have no documentation of on-site environmental violations at a local, state, or federal level. The site is currently used as an agricultural farm to harvest hay.

According to the Charles Tyler and the Town of Pomfret there has been no generation or disposal of hazardous materials on or after November 19, 1980. Additionally, no dry cleaning, vehicular body repair, or furniture stripping was conducted on or after May 1, 1967 at the site.

A copy of the user questionnaire is included in Appendix B.

### **7.2 Occupants**

There are no occupants for the site.

### **7.3 Local Government**

Federal, state, and local agencies were contacted or visited by Tighe & Bond on November 4, 2015 regarding records of environmental concerns, violations, and/or permits.

#### **7.3.1 Tax Assessor**

Tighe & Bond reviewed the tax assessor database for the Town of Pomfret, CT. The property field card and parcel map are included in Appendix B.

#### **7.3.2 Building/Planning/Zoning, and Health Departments**

Tighe & Bond met with personnel from the Building and Planning & Zoning Departments to review available files pertaining to the site. Available files pertaining to the site were reviewed; environmentally pertinent information was not identified. Tighe & Bond met with personnel from the Northeast District Department of Health (NDDH) in Brooklyn, Connecticut. Environmental issues were not identified for the site in the files reviewed.

#### **7.3.3 Fire Department**

Tighe & Bond spoke to the Fire Marshal via telephone on November 5, 2015. The Fire Marshall did not have files or information for the site.

## **Section 8 Additional Services**

### **8.1 Hazardous Building Materials**

A Hazardous Building Materials Assessment (HBMA) was not included as part of this Phase I ESA.

### **8.2 Radon**

The Connecticut Department of Public Health *Indoor Radon Potential Map of Connecticut* dated 1997 was reviewed to determine radon propensity at the site. The radon potential rating indicates the percentage of tested homes in these areas with basement air radon levels greater than 4.0 picocuries per liter (pCi/L, the USEPA action level). Based on this map, the area in which the site is identified as low-moderate to moderate (16% to 22%).

As per USEPA guidelines, the only way to assess potential radon gas exposure risks is to conduct a radon assessment. In addition, the USEPA recommends that follow-up tests on buildings should be conducted when major modifications are made either to the building structure or HVAC system or the HVAC system's operation settings.

Radon testing was not conducted as part of this Phase I ESA.

### **8.3 Regulatory Compliance**

An assessment of regulatory compliance was not completed as part of this Phase I ESA.

### **8.4 Cultural and Historic Resources**

An assessment of historic and archaeological resources on the site was not completed as part of this Phase I ESA.

### **8.5 Industrial Hygiene, Indoor Air, and Mold**

An assessment of industrial hygiene, indoor air and mold was not completed as part of this Phase I ESA.

### **8.6 Health and Safety**

An assessment of Occupational Safety and Health Administration compliance was not completed as part of this Phase I ESA.

### **8.7 Ecological Resources and Endangered Species**

An assessment of potential ecological resources was completed as part of this Phase I ESA. According to CTDEEP mapping for State and Federal Listed Species and Significant Natural Communities for the Town of Pomfret, the site is located within a listed species natural community. Portions of the site to the north of Woods Hill Road includes rare species habitat mapped pursuant to the Natural Diversity Database Program. Figure 6 (Environmental Resources Map) depicts the site relative to this area.

## Section 9

# Summary and Recommendations

### 9.1 Summary

Tighe & Bond, Inc. (Tighe & Bond) has completed a Phase I Environmental site Assessment (ESA) on behalf of RES America Developments, Inc. for the site located at 90 Woods Hill Road, in Pomfret, Connecticut. The site consists of an approximately 114-acre parcel of land located to the west of Woods Hill Road.

The purpose of the Phase I ESA was to assess the property or evidence of recent or historical RECs/AOCs in general accordance with guidelines described in ASTM E1527-13 and CTDEEP Site Characterization Guidance Document. It is our understanding that this ESA was conducted in order to facilitate the possible development of the site as a commercial scale solar PV project.

The site is located to the west of Woods Hill Road. The majority of the site is cleared agricultural land, with the exception of wooded area in the northwestern portion. Access to the site is provided by Woods Hill Road. Site operations include agricultural farming for harvesting of hay from at least 1941. Previous uses of the site were not identified or reported during this ESA.

The site is bounded to the west and north by undeveloped land; to the east by agricultural land; and to the south by agricultural land and residential properties.

Previous environmental assessments for the site were not identified or provided during this ESA.

Published geological mapping indicates the site is underlain by thick till, sand, and gravel deposits. The bedrock underlying the site is mapped as gneiss. The site is identified in an area classified by the CTDEEP as GA. GA classified groundwater is generally inferred to be suitable for drinking without treatment. Based on topography of the site, shallow overburden groundwater is inferred to flow generally northwest towards White Brook, which is classified by the CTDEEP as a Class B surface water body. Wetlands and watercourses were observed on the site, particularly within forested areas along the northwest corner of the site.

Based on information obtained during this Phase I ESA Tighe & Bond has identified the following RECs and / or AOCs at the site:

#### **REC-1/AOC-1: Pesticide and Herbicide Application at the site**

Based on historical aerial photographs and the site reconnaissance, several areas of agricultural fields are present throughout the site from circa 1941 to present day and have been reported to be used for harvesting of hay. Observations from the site walk indicate cleared areas of the site were grassy fields indicative of hay harvesting. It is possible that pesticides were applied to the site in order to control pests and vermin and herbicides may have been used as weed control.

Contaminants of concern (COCs) include Pesticides and Herbicides.

During the completion of this Phase I ESA Tighe & Bond did not identify historical or controlled RECs in connection with the site.

The following de-minimis environmental conditions were identified for site during the completion of this Phase I ESA:

- The presence of minor amounts of miscellaneous solid waste (wood, plastic and metal) identified at site.

The following business environmental risks were identified for the site during the completion of this Phase I ESA:

- The presence of wetlands and watercourses at the site.

Tighe & Bond has performed this Phase I ESA in general accordance with guidelines described in ASTM E1527-13, EPA's All Appropriate Inquire Rule, and CTDEEP Site Characterization Guidance Document to identify RECs and AOCs at the site in a manner consistent with standard practice in the industry. However, as indicated in the ASTM standard, "No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs and AOCs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs and AOCs in connection with a property, and the practice recognizes "reasonable limits of time and cost."

## **9.2 Recommendations**

Tighe & Bond recommends soil testing be conducted determine if the site has been impacted by releases associated with the on-site RECs / AOCs (application of pesticides and / or herbicides).



## **Section 10**

# **Environmental Certification**

### **10.1 Deviations**

This Phase I ESA conforms to ASTM with the following deviations noted:

- An title and lien search was not completed as this information was not provided by the User.

It is the opinion of the reviewing Environmental Professional that the above-deficiencies will not detrimentally affect the identification of RECs/AOCs. This opinion is based on the following factors:

- The lack of title and lien search should not have an effect on the identification of RECs/AOCs since sufficient information for the site was available.

### **10.2 Limitations**

This report is prepared on behalf of and for the exclusive use of RES America Developments, Inc. (Client) and is subject to and issued in accordance with the Agreement and the provisions thereof. This report and any findings contained therein shall not, in whole or in part, be provided to or used by any other person, firm, entity or governmental agency in whole or in part, without the prior written consent of Client and Tighe & Bond. However, Tighe & Bond acknowledges and agrees that, subject to the Limitations set forth herein and prior written approval by Tighe & Bond, this report may be provided to specific financial institutions, attorneys, title insurers, lessees and/or governmental agencies identified by Client at or about the time of issuance of the report in connection with the conveyance, mortgaging, leasing, or similar transaction involving the real property which is the subject matter of a report and any work product. Use of this report for any purpose by any persons, firm, entity, or governmental agency shall be deemed acceptance of the restrictions and conditions contained therein, these Limitations and the provisions of Tighe & Bond's Agreement with Client. No warranty, express or implied, is made by way of Tighe & Bond's performance of services or providing an environmental site assessment, including but not limited to any warranty with the contents of a report or with any and all work product.

In preparing a report, Tighe & Bond, Inc. may rely on certain information provided by governmental agencies or personnel as well as information and/or representations provided by other persons, firms, or entities, and on information in the files of governmental agencies made available to Tighe & Bond at the time of the site assessment. To the extent that such information, representations, or files may be inaccurate, missing, incomplete or not provided to Tighe & Bond, Tighe & Bond is not responsible. Although there may be some degree of overlap in the information provided by these various sources, Tighe & Bond does not assume responsibility for independently verifying the accuracy, authenticity, or completeness of any and all information reviewed by or received from others during the course of the site assessment.

Unless otherwise noted, a survey (which includes observations, sampling and analysis) for the presence of polychlorinated biphenyls (PCBs) and asbestos contained in building materials, mold and/or lead-based paint is not conducted as part of an assessment.

Unless otherwise noted, an evaluation (which includes observation, sampling and analysis) for Vapor Intrusion Conditions (VIC) is not conducted as part of an assessment. No attempt is made to assess the compliance status of any past or present Owner or Operator of a site with any Federal, state, or local laws or regulations, unless specifically indicated otherwise in writing.

Findings, observations, and conclusions presented in this report, including but not limited to the extent of any subsurface explorations or other tests performed by Tighe & Bond, are limited by the scope of services outlined in the Agreement, which may establish schedule and/or budgetary constraints for an environmental assessment or phase thereof. Furthermore, while it is anticipated that each assessment will be performed in accordance with generally accepted professional practices and applicable standards (such as ASTM, etc.) and then applicable state and Federal regulations, as may be further described in the report and/or the Agreement, Tighe & Bond does not assume responsibility for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of its services.

The assessment presented in each report is based solely upon information obtained or received prior to issuance of the report. If additional environmental or other relevant information is developed at a later date, Client agrees to bring such information to the attention of Tighe & Bond promptly. Upon evaluation of such information, Tighe & Bond reserves the right to recommend modification of this report and its conclusions. In addition, dense forested areas on the site created some visual and access limitations during the site reconnaissance.

If included, any database search is conducted under the Notice of Disclaimer/Waiver of Liability included in the database search report.

### 10.3 Reliance

The Environmental Professional Hereby certifies that this Phase I ESA has been conducted in accordance with EPA's AAI Final Rule and ASTM E1527-13. This Phase I ESA has been prepared for the sole use of RES America Developments, Inc. This Phase I ESA should not be relied upon by other parties without the express written consent of Tighe & Bond and RES America Developments, Inc.

In accordance with Section 4.6 of ASTM E1527-13 and 40 CFR §312.20, a Phase I ESA conducted within one year prior to the date of property acquisition is considered to be valid. However, the following components must be conducted or updated within 180 days prior to the date of property acquisition/real estate transaction:

- Interviews with past and present owners, operators and occupants;
- Searches for recorded environmental cleanup liens;
- Review of governmental records;
- Site Reconnaissance of the property and adjoining properties; and
- The declaration by the Environmental Professional

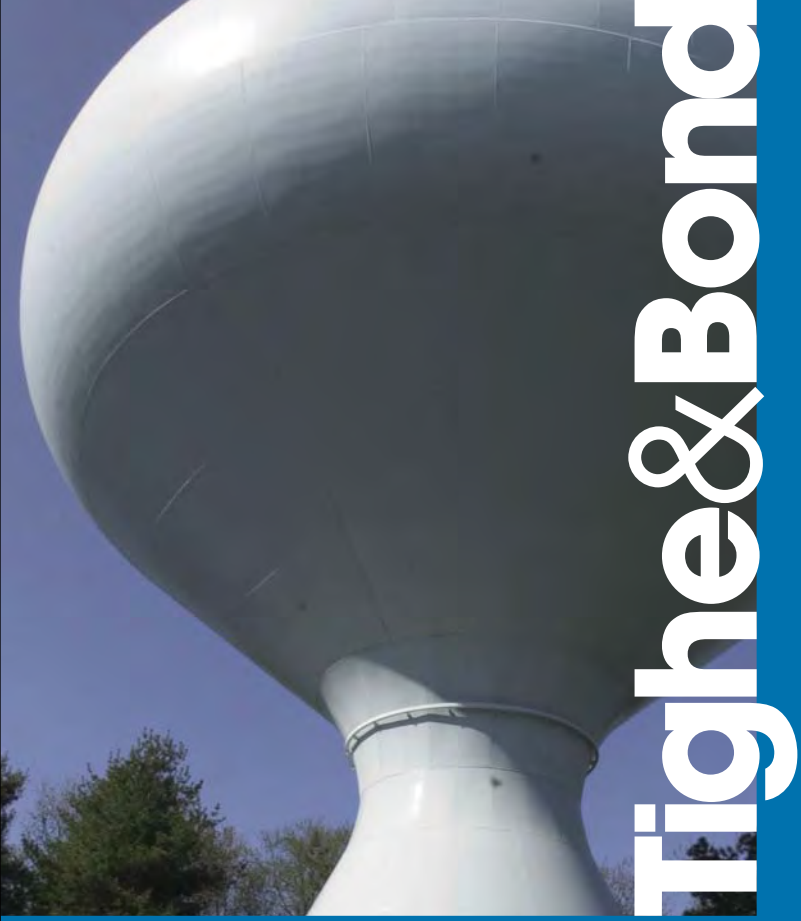
**10.4 Environmental Professional Signature**

The author of this report declares that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312. The author of this report has the specific qualification based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. The author has developed and performed the all appropriate inquiries in the conformance with the standards and practices set for the in 40 CFR 312.



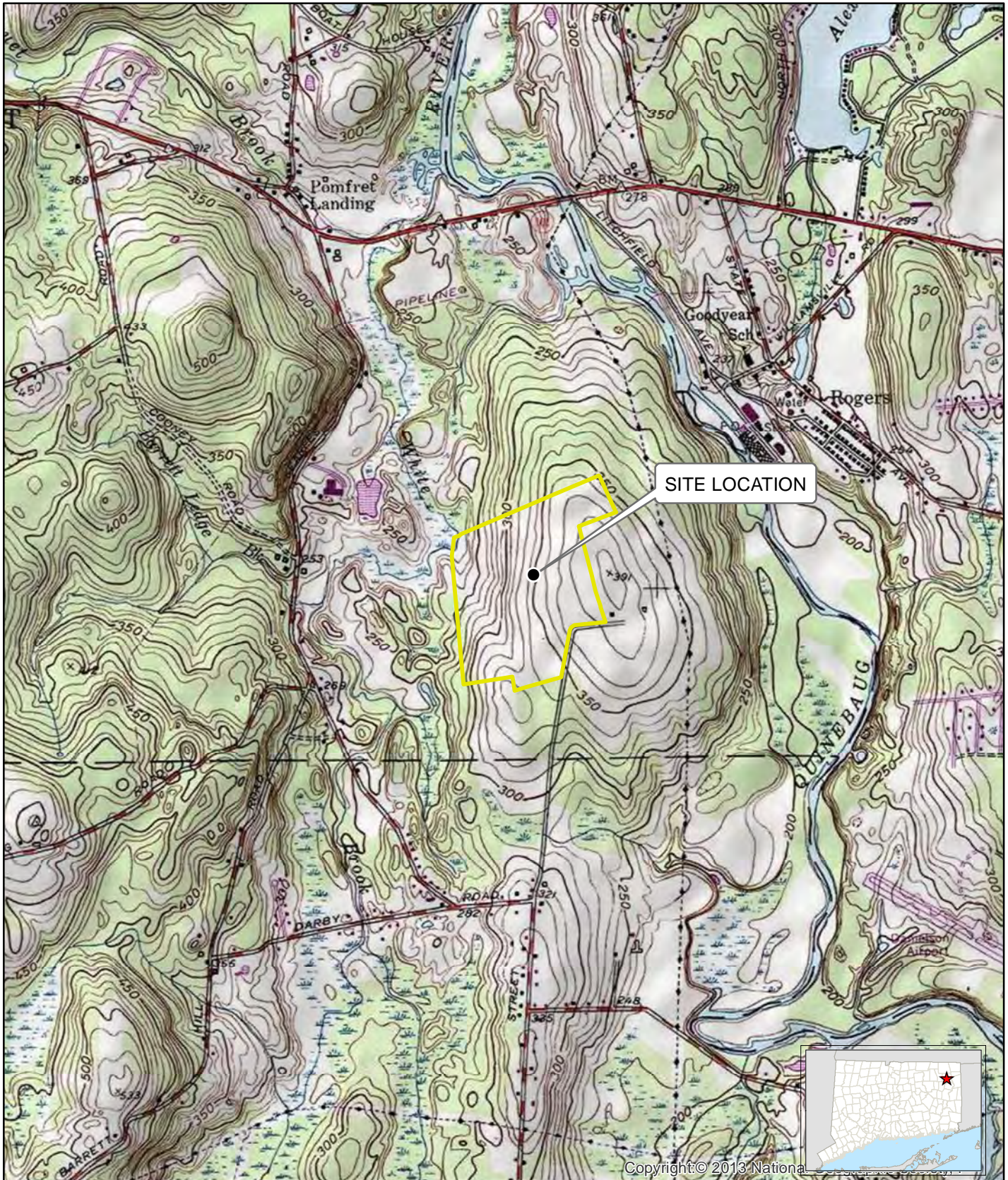
---

Nicholas A. Granata, LEP  
Senior Environmental Scientist



# Tighe & Bond





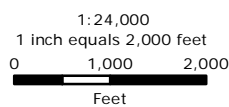
SITE LOCATION

**LEGEND**

- Approximate Site Boundary
- Site Location



Source: U.S. Geological Survey, in cooperation with CTDEEP, Office of Information Management  
 Based on USGS Topographic Map for Danielson, CT, Rev. 1970, 1:24,000  
 Map Date: January 2016



**FIGURE 1**  
**SITE LOCATION MAP**

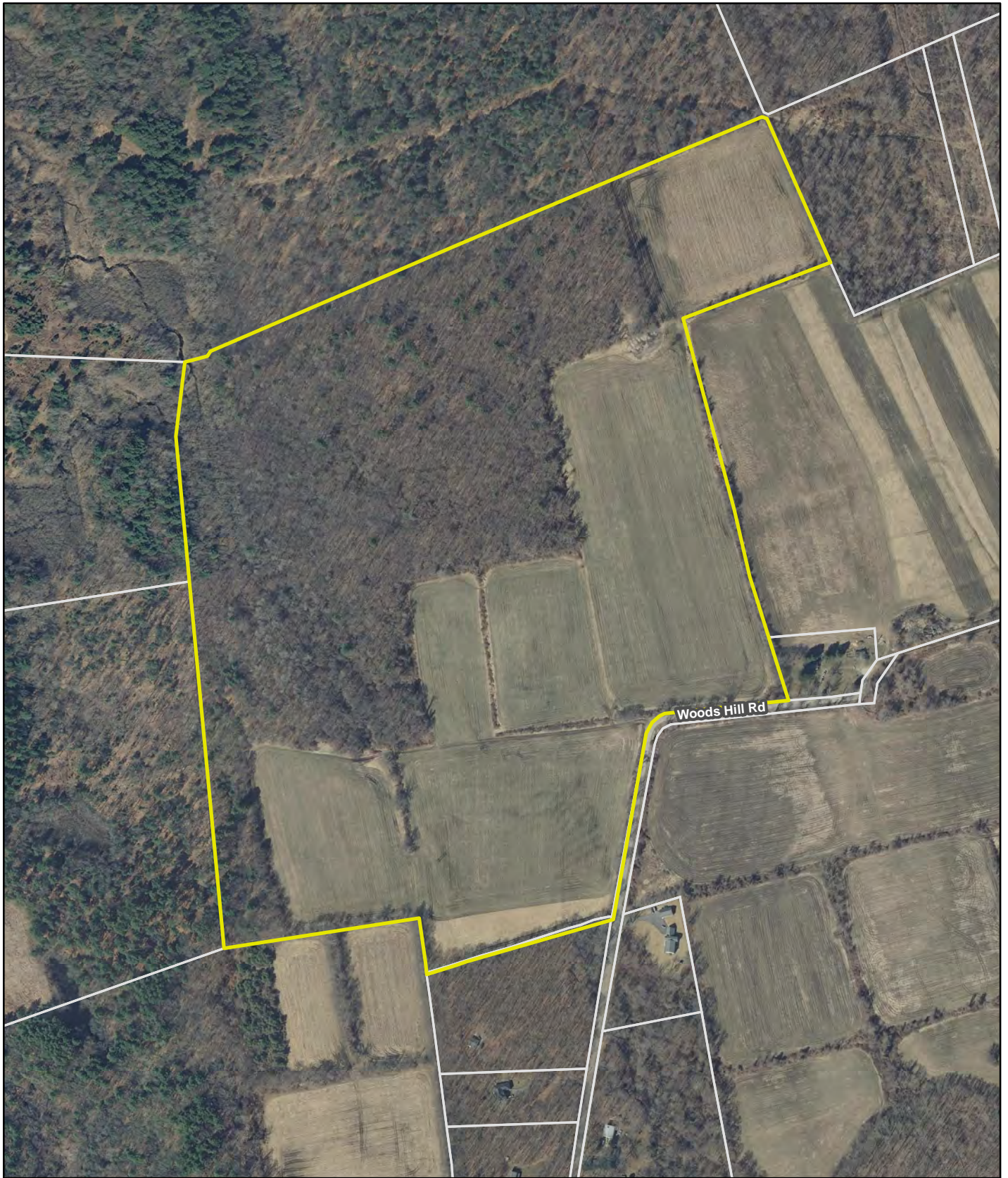
90 Woods Hill Road  
 Pomfret, CT

January 2016





Copyright © 2013 National



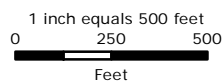


**LEGEND**

-  Approximate Site Boundary
-  Approximate Parcel Boundary



Source:  
Connecticut DEEP, Office of Information  
Management GIS Data and State of Connecticut 2012 aerial  
imagery with 1-foot ground resolution provided by CTECO



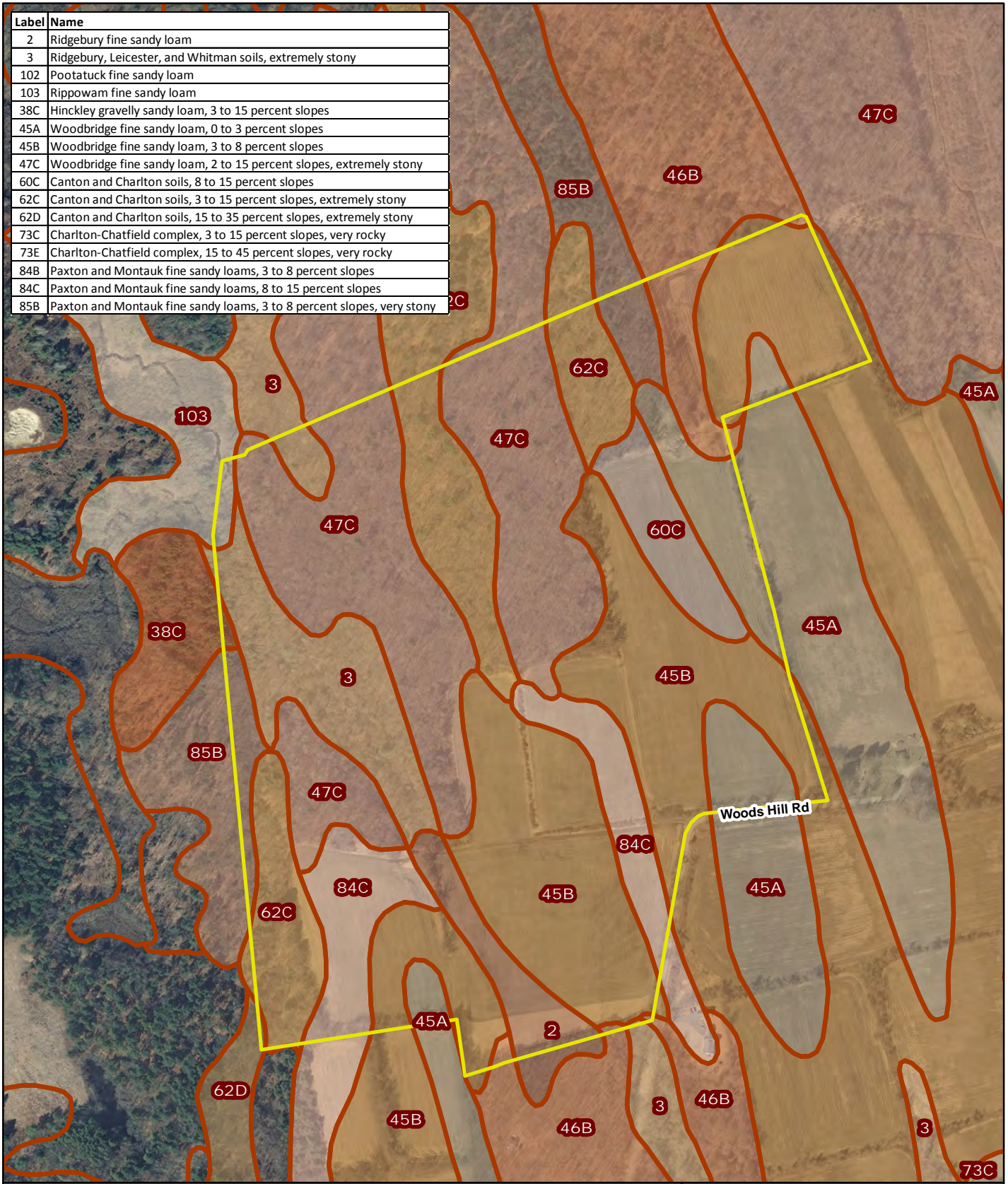
**FIGURE 2  
AERIAL PHOTOGRAPH**

90 Woods Hill Road  
Pomfret, CT

January 2016



Label	Name
2	Ridgebury fine sandy loam
3	Ridgebury, Leicester, and Whitman soils, extremely stony
102	Pootatuck fine sandy loam
103	Rippowam fine sandy loam
38C	Hinckley gravelly sandy loam, 3 to 15 percent slopes
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes
47C	Woodbridge fine sandy loam, 2 to 15 percent slopes, extremely stony
60C	Canton and Charlton soils, 8 to 15 percent slopes
62C	Canton and Charlton soils, 3 to 15 percent slopes, extremely stony
62D	Canton and Charlton soils, 15 to 35 percent slopes, extremely stony
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony

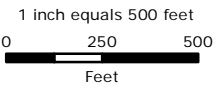


**LEGEND**

- Approximate Site Boundary
- Soil Boundary



Source:  
Soil Boundary data obtained from the United States Department of Agriculture Natural Resources Conservation Service (NRCS): <http://soildatamart.nrcs.usda.gov/>.  
Other GIS data layers displayed on this map were obtained from CTDEEP's (<http://www.ct.gov/deep>) data library.  
Ortho Base Map: State of Connecticut 2012 aerial imagery with 1-foot ground resolution provided by CTECO

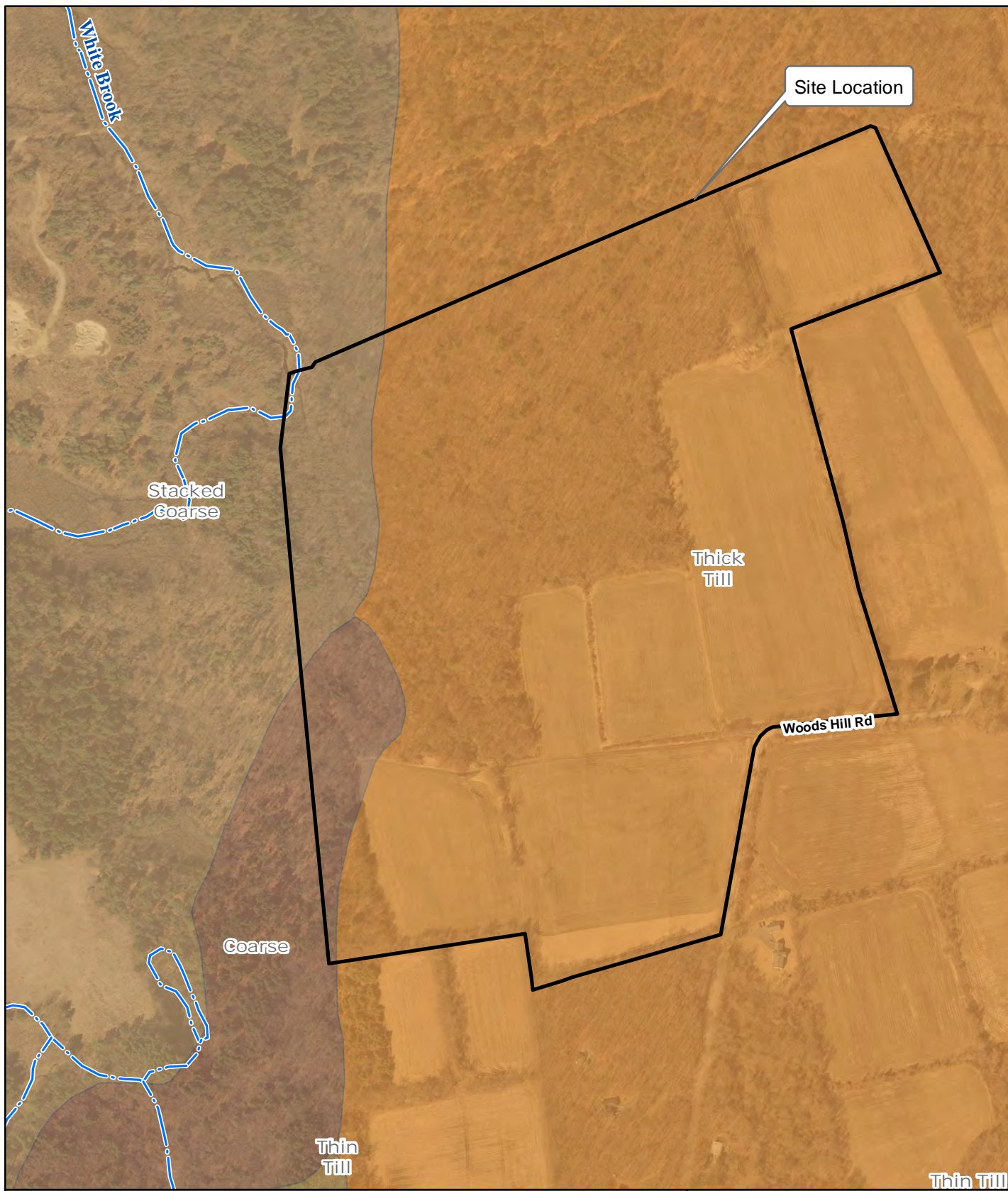


**FIGURE 3  
SOILS MAP**

90 Woods Hill Road  
Pomfret, CT

January 2016

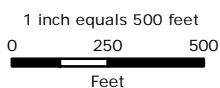




**LEGEND**

- Approximate Site Boundary
  - Watercourse
- |  |  |
|--|--|
| <p><b>Surficial Materials</b></p> <ul style="list-style-type: none"> <li> Coarse</li> <li> Coarse over Fine</li> <li> Natural Postglacial</li> </ul> | <ul style="list-style-type: none"> <li> Stacked Coarse</li> <li> Thick Till</li> <li> Thin Till</li> </ul> |
|--|--|

Source:  
 GIS data layers displayed on this map were obtained from CTDEEP's data library (<http://www.ct.gov/deep>).  
 Surficial Materials data was derived from the U.S Geological Survey Surficial Materials Map of Connecticut (Stone and others: 1992) and the Quaternary Geologic Map of Connecticut and Long Island Sound Basin (Stone and others: 2005).  
 Bedrock Geology data was derived from the Bedrock Geological Map of Connecticut (Rogers: 1985).  
 Ortho Base Map: State of Connecticut 2012 aerial imagery with 1-ft ground resolution provided by CTECO



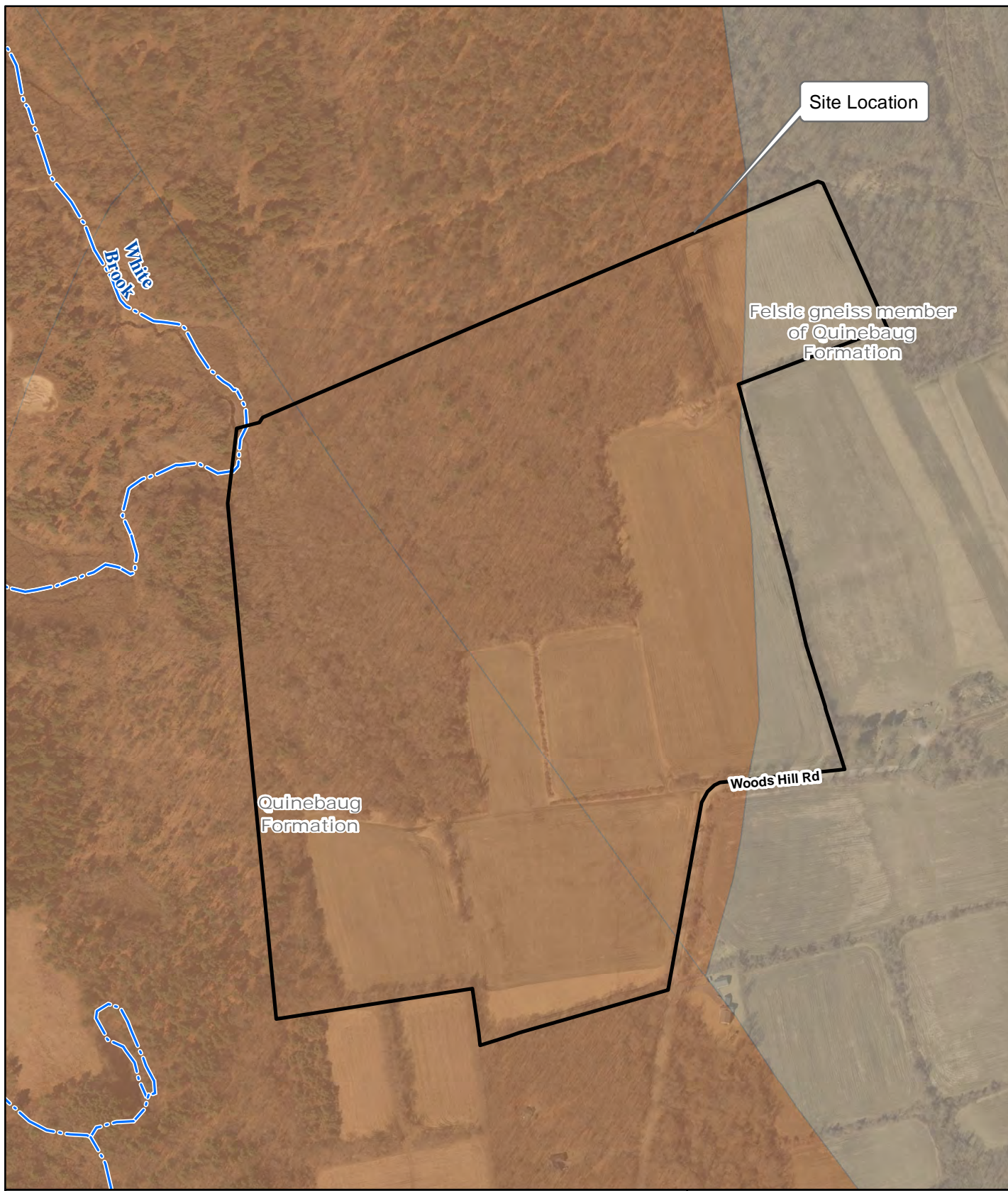
**FIGURE 4**  
**SUFICIAL MATERIALS MAP**

90 Woods Hill Road  
 Pomfret, CT

January 2016



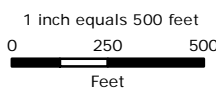




**LEGEND**

- Approximate Site Boundary
- Watercourse
- Bedrock Geology**
- Felsic gneiss member of Quinebaug Formation
- Quinebaug Formation

Source:  
 GIS data layers displayed on this map were obtained from CTDEEP's data library (<http://www.ct.gov/deep>).  
 Surficial Materials data was derived from the U.S Geological Survey Surficial Materials Map of Connecticut (Stone and others: 1992) and the Quaternary Geologic Map of Connecticut and Long Island Sound Basin (Stone and others: 2005). Bedrock Geology data was derived from the Bedrock Geological Map of Connecticut (Rogers: 1985). Ortho Base Map: State of Connecticut 2012 aerial imagery with 1-ft ground resolution provided by CTECO



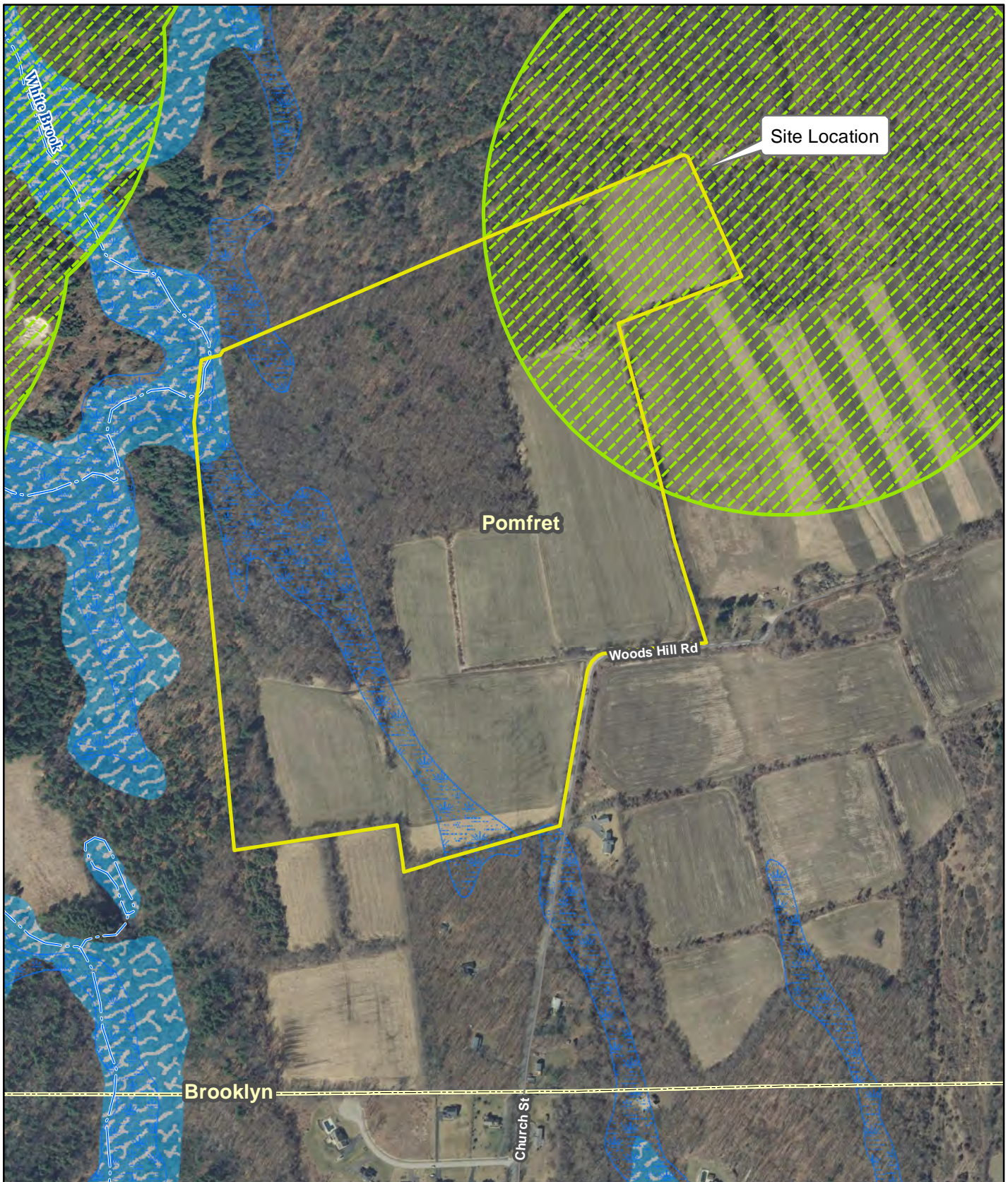
**FIGURE 5  
 BEDROCK GEOLOGY MAP**

90 Woods Hill Road  
 Pomfret, CT

January 2016





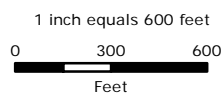


**LEGEND**

- |                                       |  |                     |
|---------------------------------------|--|---------------------|
| Approximate Site Boundary             | Watercourse                                | 100-Year Flood Zone |
| Final Adopted Aquifer Protection Area | Waterbody                                  | 500-Year Flood Zone |
| Final Aquifer Protection Area         | Natural Diversity Database Area (Dec 2014) | Floodway            |
| Preliminary Aquifer Protection Area   | Critical Habitat (Dec 2014)                | Municipal Boundary  |
| National Wetlands Inventory           | CTDEEP Wetlands                            |                     |

**FIGURE 6  
ENVIRONMENTAL  
RESOURCES MAP**

90 Woods Hill Road  
Pomfret, CT

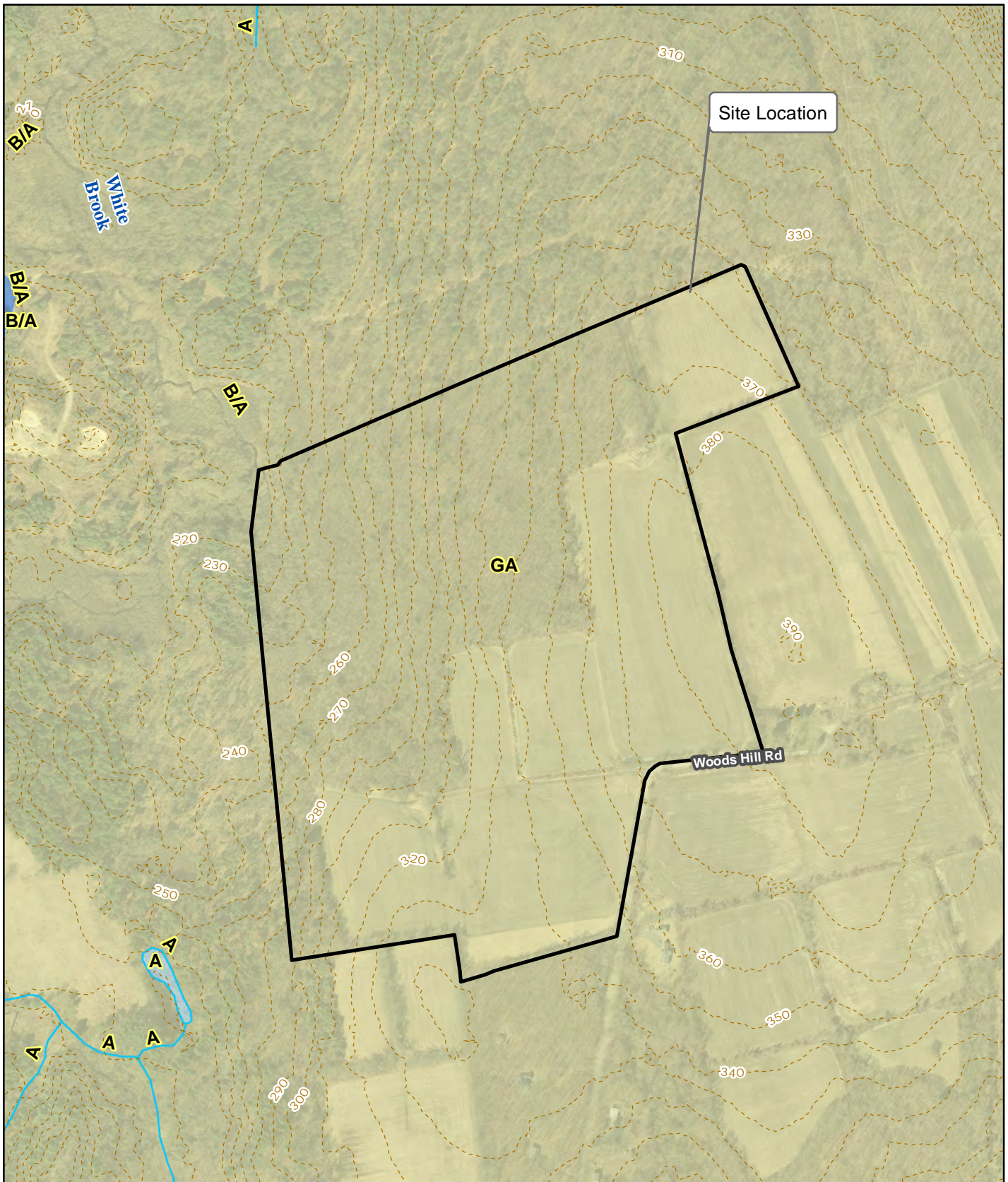


Source:  
GIS data layers displayed on this map were obtained from CTDEEP's data library (<http://www.ct.gov/deep>).  
FEMA Flood Zones are maintained by FEMA. The data layers shown are the most recent publications.  
Ortho Base Map: State of Connecticut 2012 aerial imagery with 1-ft ground resolution provided by CTECO

January 2016







**LEGEND**

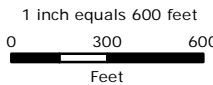
- Approximate Site Boundary
- Area of Contribution to Public Supply Well
- Contour Line (10-foot)

- Ground Water Quality**
- GA
  - GAA, GAAs
  - GB
  - GC
  - GA, GAA May be impaired

- Surface Water Quality**
- A
  - AA
  - B, B\*
  - SA
  - SB

- A
- AA
- B, B\*
- SA
- SB

Source:  
GIS data layers displayed on this map were obtained from CTDEEP's data library (<http://www.ct.gov/deep>). Water Classifications are maintained and updated by CTDEEP. The data layers shown are the most recent publications.  
Ortho Base Map: State of Connecticut 2012 aerial imagery with 1-foot ground resolution provided by CTECO



**FIGURE 7  
WATER CLASSIFICATIONS  
MAP**

90 Woods Hill Road  
Pomfret, CT

January 2016



# Tighe & Bond



TOPO.	UTILITIES	STRI./ROAD	LOCATION	DESCRIPTION	CURRENT ASSESSMENT
1 Level		1 Paved	3 Rural	FARM LAND	Code 6-1 Appraised Value 673,500 Assessed Value 14,050
<b>SUPPLEMENTAL DATA</b> Other ID: 490 PENALTY EXPIRED CENSUS 9025 DEV RIGHTS COM/IND US SURVEY # DEV LOT # ADD'L EASEME 10 MILL EXP GIS ID: 00190400 ASSOC PID#					

RECORD OF OWNERSHIP	BK-VOL/PAGE	SALE DATE	q/u	w/i	SALE PRICE	V.C.
TYLER CHARLES H & WILLIAM F III	0233/0175	10/28/2004	U	V		1J
TYLER WILLIAM F JR & CHARLES H WM III	0057/0239	02/05/1987	U	V		0
ALMADA JOAQUIM C	0038/0539	06/18/1963	U	V		
<b>Total:</b>						

EXEMPTIONS	Amount	Description	Code	Number	Comm. Int.
<b>OTHER ASSESSMENTS</b>					

ASSESSING NEIGHBORHOOD		Street Index Name	Batch
0060/A			

**NOTES**  
 1/2 INT OF WILLIAM F JR  
 TO MARJORIE R V185 P71 (4/02)  
 V233 P175 QC FROM MARJORIE (3/04)  
 265/57 CORRECTING DEED - EXECUTRIX TO  
 TYLER BROS - CHANGE PREVIOUSLY RECORDED  
 (1/07)

Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments
								09/01/2009 12/09/2008 01/05/2005 12/23/2002 08/17/1999

BUILDING PERMIT RECORD										VISIT/CHANGE HISTORY									
B #	Use Code	Use Description	Zone	D	Front	Depth	Units	Unit Price	I. Factor	S.A.	C. Factor	ST. Idx	Notes-Adj	S Adj Fact	Special Pricing	Adj. Unit Price	Land Value		
1	7130	490 - THH D	CB				1.00 AC	87,000.00	1.0000	5	1.00	0075	490	1.00	225	1.00	121,800		
1	7170	490 - Woodland					57.90 AC	7,000.00	1.0000	0	0.70		490	1.00	130	1.00	283,700		
1	7130	490 - THH D					54.70 AC	7,000.00	1.0000	0	0.70		490	1.00	225	1.00	268,000		
<b>Total Card Land Units: 113.60 AC Parcel Total Land Area: 113.6 AC Total Land Value: 673,500</b>																			

**NET TOTAL APPRAISED PARCEL VALUE** 673,500

*This signature acknowledges a visit by a Data Collector or Assessor*

**APPRaised VALUE SUMMARY**

Appraised Bldg. Value (Card) 0  
 Appraised XF (B) Value (Bldg) 0  
 Appraised OB (L) Value (Bldg) 0  
 Appraised Land Value (Bldg) 0  
 Special Land Value 673,500  
 Total Appraised Parcel Value 673,500  
 Valuation Method: C  
 Adjustment: 0  
**Net Total Appraised Parcel Value 673,500**

**FIELD REVIEW**  
 PH 11  
 EG 00 Measur+Listed  
 KT 47 Change  
 KI 54 Mapping  
 AH 00 Measur+Listed

**VISION**  
 6112  
 POMFRET, CT

CONSTRUCTION DETAIL		CONSTRUCTION DETAIL (CONTINUED)	
Element	Cd.	Ch.	Description
Model	00		Vacant
<b>MIXED USE</b>			
Code	Description		Percentage
7130	490 - THH D		100
<b>COST/MARKET VALUATION</b>			
Adj. Base Rate: 0.00			
AYB			
EYB			
Dep Code			0
Remodel Rating			
Year Remodeled			
Dep %			
Functional Obslinc			
External Obslinc			
Cost Trend Factor			1
Status			
% Complete			
Overall % Cond			
Apprais Val			
Dep % Ovr			0
Misc Imp Ovr			0
Misc Imp Ovr Comment			
Cost to Cure Ovr			0
Cost to Cure Ovr Comment			

OB-OUTBUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)													
Code	Description	Sub	Sub Descript	L/B	Units	Unit Price	Yr	Gde	Dp	Rt	Cnd	%Cnd	Apr Value
<b>BUILDING SUB-AREA SUMMARY SECTION</b>													
Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprec. Value							
<b>Ttl. Gross Liv/Lease Area:</b>		0	0	0	0	0							

No Photo On Record



**necog**

Ashford Brooklyn Canterbury Chaplin Eastford Hampton Killingly Plainfield  
Pomfret Putnam Scotland Sterling Thompson Union Voluntown Woodstock

**Parcel Information:**

Report Generated: 10/19/2015 12:05:32 PM

**GIS ID:** CT-112-43-A-004.00

**Assessment:** \$14,050.00

**Owner Name:** TYLER CHARLES H & WILLIAM F III

**Appraisal:** \$673,500.00

**Street Address:** 90 WOODS HILL RD

**Mailing Address:** 495 NO SOCIETY RD

CANTERBURY CT 06331

**Land:** 113.60

**Buildings:**

**Land Value:**

**Improvement Value:**

**Total Value:**

**Appraised**

\$673,500.00

\$0.00

\$673,500.00

**Assessed**

\$0.00

\$14,050.00

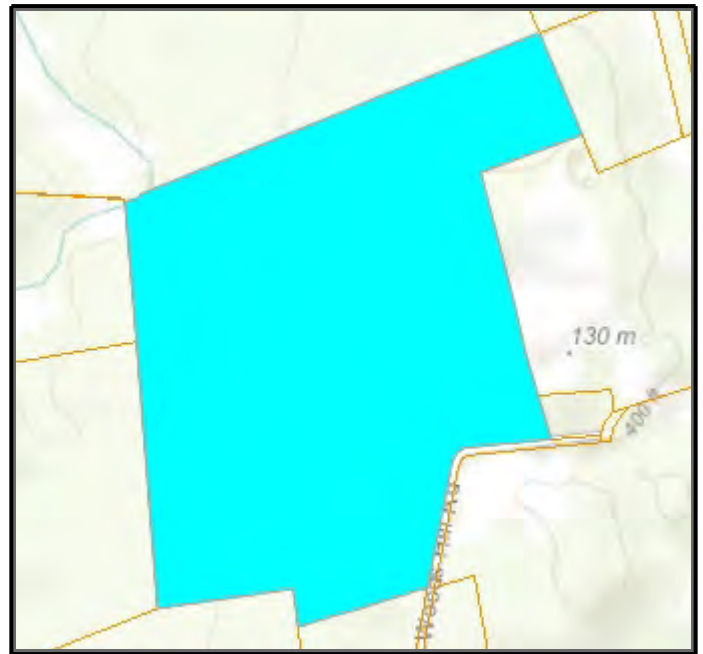
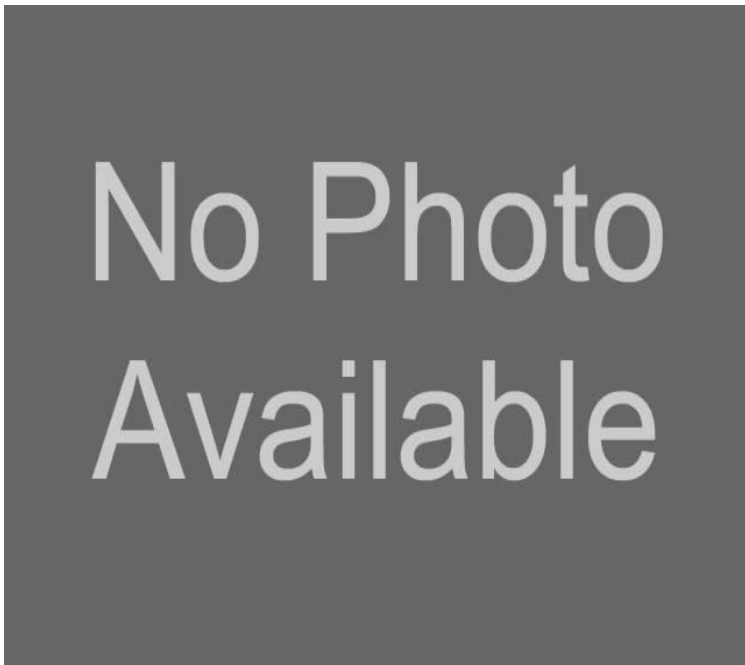
**Sale Date:**

**Sale Price:**

**Year Built:**

**Primary Structure Area:**

sq. ft.



Taxlot highlighted in blue



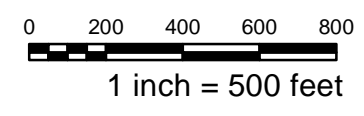
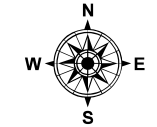


**LEGEND**

Parcel Lines	Gas Easement	Historic Parcel Lines	LAKE
Parcel ROW Boundaries	Telephone Easement	Streams	SWAMP
Electric Easement	Parcels		

NOTE: The areas, boundaries, and dimensions shown on this tax map are derived from planimetric mapping, plans, and deeds of record, and are to be used for tax assessment purposes only and NOT FOR CONVEYANCE.

**TOWN OF POMFRET, CONNECTICUT**  
**March 26, 2013**  
**MAPS ARE FOR TAX PURPOSES ONLY**





Site: \_\_\_\_\_

Date Provided: \_\_\_\_\_

### Phase I Questionnaire

Per the ASTM E1527-13 Standard for Phase I Environmental Site Assessments, the following questionnaire is being provided to you because you are the Owner, are the User, or may have specialized knowledge about the site listed above. Please answer the questions to the best of your knowledge. If needed, please attach additional pages or information.

#### Please fill out the following information about yourself:

Name: Charles H. ("Tim") Tyler  
Company:  
Years employed with the company:  
Job title: Property Owner

#### General Information

Site Name: Tyler Parcel - Pomfret  
Address: 90 Woods Hill Rd, Pomfret, CT  
General use of property: Agricultural  
Site Contact: Tim Tyler  
Title:  
Phone No: 860-234-1695  
Duration of time that site contact has been in this position:

Please provide additional site contacts knowledgeable on site activities

Name	Title	Phone	E-mail

#### Site Information

Are you the current owner or tenant of this site? **Owner**

Are you aware of any previous environmental site assessments or remediation conducted at the site? If yes, please list activities conducted and dates. **No**

What is the age of the building(s) on the site? **N/A**



Please list all of the business(s) operated on the site. **Agricultural Use Only**

Please provide specifics about site utilities. Provide specifics about the type of utility and how long the service has been active. If there was a septic tank and leach field, please describe location. **None Known**

Are you aware of the current or historic use of underground storage tanks (USTs) on the site? If so, please describe. **None Known**

Size of UST (gallons)	Contents of UST	Year Installed	Year Removed

Are you aware of the current or historic use of aboveground storage tanks (ASTs) on the site? If so, please describe. **None Known**

Size of AST (gallons)	Contents of AST	Year Installed	Year Removed

Are you aware of the current or historic use of 55-gallon drums or any other storage media on the site? If so, please describe. **None Known**

Location of Drums	Contents of Drums	Location Stored	Number at location

Are you aware of any chemical or oil spills on the site? This includes, but is not limited to, gasoline, heating oil, diesel, and paint. If so please provide specifics in the table below. **None Known**

Date of Spill	Contents of Spill	Spill Location

**Regulatory Information**

What Regulatory Permits pertain to the site? **None Known**

Frequency of inspections by regulators (if any)? **N/A**

Is the key site contact aware of any environmental violations recorded at local, state or federal agencies? If yes, describe. Post & Pre-Construction? **None Known**

Is documentation of violations available for site from key site contact? **N/A**

**Process Information**

Has any of the following occurred at the property? (Circle Yes or No)-

- 1) On or after November 19, 1980, there was generated, except as the result of remediation of polluted soil, groundwater or sediment, more than one hundred kilograms of hazardous waste in any one month. **Yes** **No**
- 2) Hazardous waste generated at a different location was recycled, reclaimed, reused, stored, handled, treated, transported or disposed of. **Yes** **No**
- 3) The process of dry cleaning was conducted on or after May 1, 1967. **Yes** **No**
- 4) Furniture stripping was conducted on or after May 1, 1967. **Yes** **No**
- 5) A vehicle body repair facility was located on or after May 1, 1967. **Yes** **No**

**Hazardous Waste Generation**

Are there any manufacturing processes or activities involving hazardous materials conducted at the site? During Construction or Post-Construction? If so describe. **None Known**

Are there any incoming raw materials delivered to the site that may be classified as hazardous? During Construction or Post-Construction? If so describe. (Name, use, approximate quantity used yearly and provide applicable documentation with questionnaire) **None Known**

Are MSDS sheets available for review at the site? Y/N. If so where are they located and please provide copies with questionnaire) **N/A**

Are there any hazardous wastes generated and approximate quantity generated yearly. During Construction or Post-Construction? (Name, Approximate Quantity Generated Annually, Disposal Contractor and please provide applicable documentation with questionnaire) **None Known**

Is there anyone else at the site that would have relevant information pertaining to any generation of hazardous wastes at the site? Who? Where located? **No**

### **Additional Questions**

Are there any environmental liens that are filed or recorded against the site? **None Known**

Are there any activity and/or use limitations that are placed on the site or that have been filed or recorded against the site? **None Known**

Do you have any specialized knowledge or experience related to the property? **Property used exclusively for agricultural purposes (hay field)**

Does the purchase price being paid for this site reasonably reflect the fair market value of the site? If you conclude that there is a difference, have you considered whether the lower purchase/offer prices is because contamination is known or believed to be present at the site? **N/A Site being leased**

Are you aware of commonly known or reasonable ascertainable information about the site that would help Tighe & Bond identify conditions indicative of releases or threatened releases? **No**



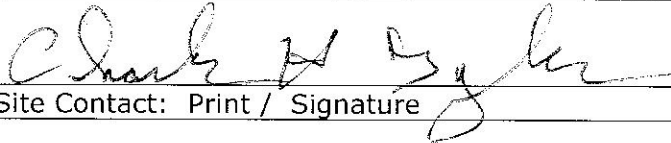
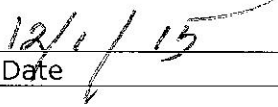
Do you know specific chemicals that are present or once were present at the site? **None Known**

Do you know of spills or other chemical releases that have taken place at the site? **None Known**

Do you know of any environmental cleanups that have taken place at the site? **None Known**

Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the site? **None Known**

**(Please note: Any supporting documents such as MSDS, waste manifests, or site maps will be needed for completion of Phase I report)**

	
Site Contact: Print / Signature	Date

# #001164 Warranty Deed - Statutory Form

THAT WE, NATHAN A. BRAMLETT and PAMELA J. BRAMLETT of the Town of Killingly, County of Windham and State of Connecticut for consideration paid, grant to RICHARD DEGAETANO and SUSAN M. DEGAETANO, as joint tenants with full rights of survivorship, of the Town of Rehoboth and Commonwealth of Massachusetts with WARRANTY COVENANTS,

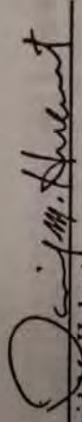
A certain piece or parcel of land with the buildings thereon, if any, lying situate and being in the Town of Pomfret, County of Windham and State of Connecticut and known as Lot 2, Tract I on a certain map or plan entitled: "Subdivision Plan Property of: Gertrude K. and Virginia Blumberg, to be conveyed to: Connecticut Valley Land Co., Inc., Fay and Paine Roads, Pomfret, Connecticut, Tract I, Messier & Associates, Inc., Engineers-Surveyors, Date: 11/88, Scale: 1" = 100', Sheet 1 of 3, Robert R. Messier, L.S., Rev 1, 3/21/89, Rev. 2, 4/18/89" (hereinafter the "Subdivision Plan") which plan is to be filed in the Office of the Pomfret Town Clerk, being more particularly bounded and described as follows:

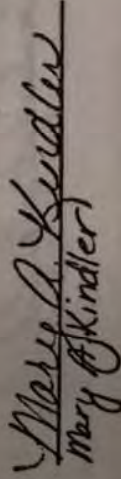
Beginning at a point on the apparent easterly streetline of Paine Road, said point being the southwesterly corner of the herein described parcel of land; thence running N 09 degrees 53' 03" W along said Paine Road, a distance of 40.12 feet to a point; thence running N 84 degrees 31' 00" E along the southerly line of Lot 1, a distance of 285.77 feet to a point; thence, running N 43 degrees 04' 51" E along said Lot 1, a distance of 193.57 feet to an I.P.; thence, running S 82 degrees 29' 33" E along land now or formerly of Randall E. and Sandra J. Motasky, a distance of 158.93 feet to a point; thence, running S 81 degrees 41' 09" E along land of said Motasky, a distance of 154.17 feet to a point; thence, running S 83 degrees 41' 56" E along land of said Motasky, a distance of 77.59 feet to a point; thence, running S 81 degrees 55' 38" E along land of said Motasky, a distance of 183.88 feet to an I.P.; thence, running S 14 degrees 01' 53" W along land now or formerly of Paul W. and Susan W. Graseck, a distance of 287.50 feet to an I.P.; thence, running N 09 degrees 53' 03" W along the northerly line of Lot 4, a distance of 594.02 feet to a point; thence, running N 09 degrees 53' 03" W along the easterly line of Lot 3, a distance of 180.00 feet to a point; thence, running S 84 degrees 31' 00" W along said Lot 3, a distance of 285.77 feet to a point on the apparent easterly streetline of Paine Road, said point being the point of beginning.

Said premises are conveyed subject to a Declaration of Easements, Covenants and Restrictions dated May 12, 1989 and recorded in the Pomfret Land Records, to which reference may be had.  
The Grantees herein assume and agree to pay all taxes due the Town of Pomfret and the Pomfret Fire District on the Grand List of October 1, 2003 and thereafter.

Signed this 28<sup>th</sup> day of October 2004

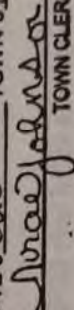
Witnessed by:

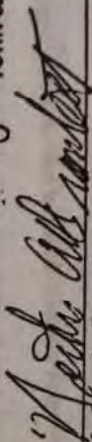
  
David M. Hubert

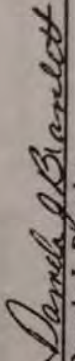
  
Mary R. Kudler  
Mary A. Kindler

State of Connecticut )  
County of Windham )

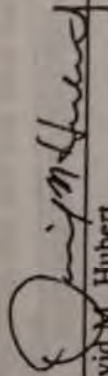
SS.: Killingly October 28, 2004

CONVEYANCE TAX RECEIVED  
STATE \$ 625<sup>00</sup> TOWN \$ 262<sup>50</sup>  
  
TOWN CLERK OF POMFRET

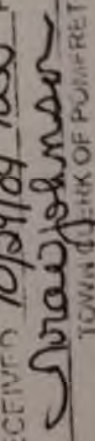
  
Nathan A. Bramlett

  
Pamela J. Bramlett

Personally appeared, NATHAN A. BRAMLETT and PAMELA J. BRAMLETT, signers and sealers of the foregoing instrument, and acknowledged the same to be their free act and deed, before me.

  
David M. Hubert  
Commissioner of Superior Court

Latest mailing address of Grantee:  
60 Fairview Avenue, Rehoboth, MA 02769

RECEIVED 10/29/04 10:50 P.M.  
  
TOWN CLERK OF POMFRET, CT

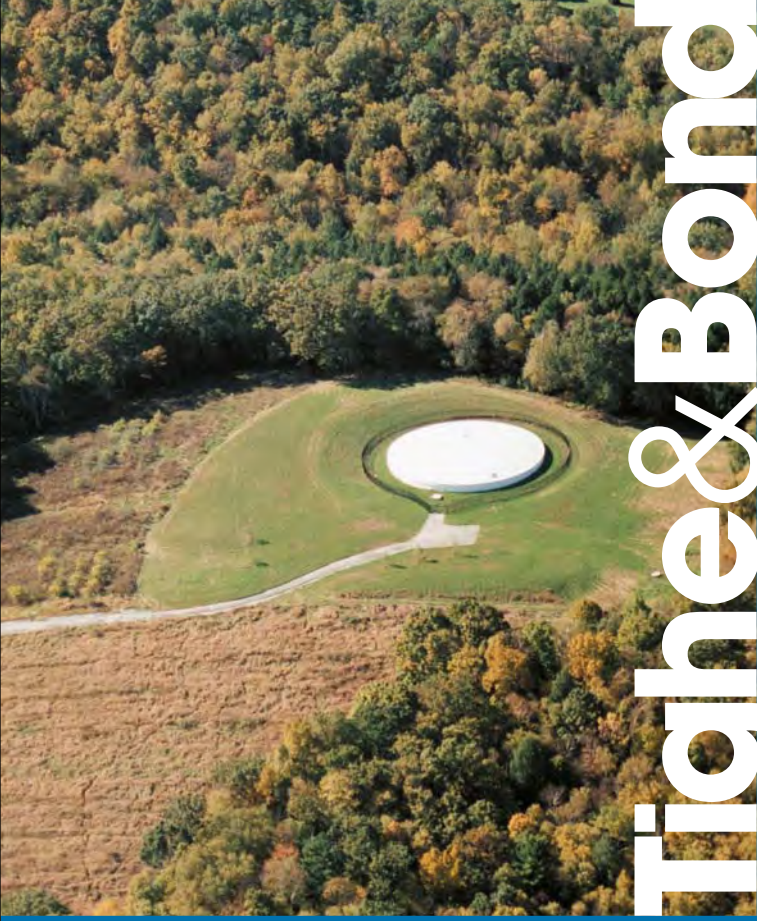


**SCHEDULE 'B'**

A certain tract or parcel of land situated in the Town of Pomfret, County of Windham and State of Connecticut, which was conveyed by Warranty Deed of Harvey C. Kimball to Harold Cunningham, dated May 8, 1937, recorded in Pomfret Land Records, Volume 31, Pages 364-365, and therein bounded and described as follows:

"Beginning at a point at a corner of land now or formerly of Charles Weldon and Church Street, so-called, thence westerly along said Weldon land and a stone wall to a corner in wall at land now or formerly of Michael Harrington; thence northerly along wall and said Harrington land to a corner in wall; thence easterly along wall and said Harrington land to a corner in wall; thence westerly along wall and said Harrington land to a corner in wall; thence westerly along said other wall to a corner in wall and said Searles land now or formerly of E. N. Searles; thence northerly along wall and land now or formerly of Arthur E. Kimball; thence in the same course along wall and said Mathew Chase; thence easterly along wall and land now or formerly of Arthur along said southerly along wall and said Chase land to corner in wall; thence southerly along wall and said Chase land to another wall; thence westerly along said other wall to a corner in wall; thence southerly along wall with a barbed wire fence on top to Church Street, the last two courses bounded by land formerly of Harvey C. Kimball, the within grantor, and this day deeded to Charles L. Kimball; thence westerly along said Church Street to corner in said Street, and following said Street, southerly to the point of beginning. Containing 125 acres, more or less."

RECEIVED 10/28/04 1140 A.M.  
W. Trae Johnson  
TOWN CLERK OF POMFRET CT.



# Tighe & Bond



# Appendix C

# Photographic Log

**Client:** RES America Developments, Inc.

**Job Number:** R-0298

**Site:** 90 Woods Hill Road, Pomfret, CT

<b>Photograph No.:</b> 1	<b>Date:</b> 11/4/2015
<b>Description:</b> Cleared agricultural land, view northeast	
	

<b>Photograph No.:</b> 2	<b>Date:</b> 11/4/2015
<b>Description:</b> Stone wall, eastern property boundary, view east	
	

Client: RES America Developments, Inc.

Job Number: R-0298

Site: 90 Woods Hill Road, Pomfret, CT

<b>Photograph No.:</b> 3	<b>Date:</b> 11/4/2015
<b>Description:</b> Organic soil piles, northwest area of the site, view north	
	

<b>Photograph No.:</b> 4	<b>Date:</b> 11/4/2015
<b>Description:</b> Camper trailer on southwestern side of site, along Woods Hill Road, view east	
	




**Client:** RES America Developments, Inc.

**Job Number:** R-0298

**Site:** 90 Woods Hill Road, Pomfret, CT

<b>Photograph No.:</b> 5	<b>Date:</b> 11/4/2015
<b>Description:</b> Pink flags marking out wetland areas, western area of the site, view north	
	

<b>Photograph No.:</b> 6	<b>Date:</b> 11/4/2015
<b>Description:</b> Forested area, existing footpath, western side of site, view north	
	



Client: RES America Developments, Inc.

Job Number: R-0298

Site: 90 Woods Hill Road, Pomfret, CT

Photograph No.: 7 Date: 11/4/2015

Description: Pile of rocks and wooden boards, western side of site, forested area, view west



Photograph No.: 8 Date: 11/4/2015

Description: Scrap metal, northern side of site, forested area, view north






Client: RES America Developments, Inc.

Job Number: R-0298

Site: 90 Woods Hill Road, Pomfret, CT

<b>Photograph No.:</b> 9	<b>Date:</b> 11/4/2015
<b>Description:</b> Forested area, northwest corner of site, survey flag, briars	
	

<b>Photograph No.:</b> 10	<b>Date:</b> 11/4/2015
<b>Description:</b> Eastern adjacent property, residential property, view east	
	

**Client:** RES America Developments, Inc.

**Job Number:** R-0298

**Site:** 90 Woods Hill Road, Pomfret, CT

<b>Photograph No.:</b> 11	<b>Date:</b> 11/4/2015
<b>Description:</b> Eastern Adjacent property, power line easement, view east	
	

<b>Photograph No.:</b> 12	<b>Date:</b> 11/4/2015
<b>Description:</b> Southern adjacent property, residential property, view south	
	





# Tighe & Bond

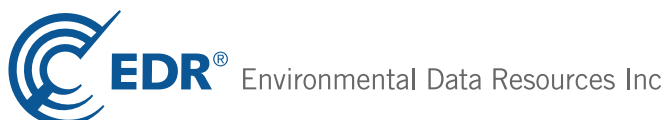
**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.2s

October 19, 2015

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	64
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting SSURGO Soil Map .....	A-5
Physical Setting Source Map .....	A-18
Physical Setting Source Map Findings .....	A-20
Physical Setting Source Records Searched .....	PSGR-1

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

### Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

101 WOODS HILL ROAD  
POMFRET, CT 06259

#### COORDINATES

Latitude (North):	41.8309000 - 41° 49' 51.24"
Longitude (West):	71.9209000 - 71° 55' 15.24"
Universal Transverse Mercator:	Zone 19
UTM X (Meters):	257440.2
UTM Y (Meters):	4634913.5
Elevation:	364 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5642109 DANIELSON, CT
Version Date:	2012

#### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120721
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:  
 101 WOODS HILL ROAD  
 POMFRET, CT 06259

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	MAIORINO RESIDENCE	426 CHURCH	CT LUST, CT CPCS	Lower	868, 0.164, South
<a href="#">A2</a>	MAIORINO RESIDENCE	426 CHURCH STREET	CT CPCS	Lower	868, 0.164, South
<a href="#">3</a>	ROGERS CORP	ONE TECHNOLOGY DR	CERC-NFRAP, CORRACTS, RCRA-TSDF, RCRA-LQG, US FIN	Lower	2162, 0.409, NNE
<a href="#">4</a>	CT DOT SEARLES ROAD	POMFRET ROAD	CERCLIS, CT SHWS, CT SDADB, CT CPCS	Lower	2489, 0.471, SW

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Federal RCRA generators list***

RCRA-SQG..... RCRA - Small Quantity Generators  
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State and tribal landfill and/or solid waste disposal site lists***

CT SWF/LF..... List of Landfills/Transfer Stations

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing



## EXECUTIVE SUMMARY

CT UST..... Underground Storage Tank Data  
CT AST..... Marine Terminals and Tank Information  
INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

CT ENG CONTROLS..... Engineering Controls Listing  
CT AUL..... ELUR Sites

### ***State and tribal voluntary cleanup sites***

CT VCP..... Voluntary Remediation Sites  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

CT BROWNFIELDS..... Brownfields Inventory

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

CT SWRCY..... Recycling Facilities  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
ODI..... Open Dump Inventory

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... National Clandestine Laboratory Register  
CT CDL..... Clandestine Drug Lab Listing  
US CDL..... Clandestine Drug Labs

#### ***Local Land Records***

CT PROPERTY..... Property Transfer Filings  
CT LIENS..... Environmental Liens Listing  
LIENS 2..... CERCLA Lien Information

#### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System  
CT SPILLS..... Oil & Chemical Spill Database  
CT SPILLS 90..... SPILLS 90 data from FirstSearch

#### ***Other Ascertainable Records***

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated  
FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites

## EXECUTIVE SUMMARY

SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
EPA WATCH LIST.....	EPA WATCH LIST
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US MINES.....	Mines Master Index File
FINDS.....	Facility Index System/Facility Registry System
CT AIRS.....	Permitted Air Sources Listing
CT DRYCLEANERS.....	Drycleaner Facilities
CT LEAD.....	Lead Inspection Database
CT LWDS.....	Connecticut Leachate and Wastewater Discharge Sites
CT MANIFEST.....	Hazardous Waste Manifest Data
CT NPDES.....	Wastewater Permit Listing
CT SEH.....	List of Significant Environmental Hazards Report to DEEP

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat.....	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners.....	EDR Exclusive Historic Dry Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

CT RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
CT RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

## EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### **STANDARD ENVIRONMENTAL RECORDS**

#### ***Federal CERCLIS list***

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>CT DOT SEARLES ROAD</i></b>	<b><i>POMFRET ROAD</i></b>	<b><i>SW 1/4 - 1/2 (0.471 mi.)</i></b>	<b><i>4</i></b>	<b><i>59</i></b>

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>ROGERS CORP</i></b>	<b><i>ONE TECHNOLOGY DR</i></b>	<b><i>NNE 1/4 - 1/2 (0.409 mi.)</i></b>	<b><i>3</i></b>	<b><i>14</i></b>

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 06/09/2015 has revealed that there is 1

## EXECUTIVE SUMMARY

CORRACTS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ROGERS CORP</b>	<b>ONE TECHNOLOGY DR</b>	<b>NNE 1/4 - 1/2 (0.409 mi.)</b>	<b>3</b>	<b>14</b>

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 06/09/2015 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ROGERS CORP</b>	<b>ONE TECHNOLOGY DR</b>	<b>NNE 1/4 - 1/2 (0.409 mi.)</b>	<b>3</b>	<b>14</b>

### ***State- and tribal - equivalent CERCLIS***

CT SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's Inventory of Hazardous Disposal Sites.

A review of the CT SHWS list, as provided by EDR, and dated 04/23/2010 has revealed that there is 1 CT SHWS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CT DOT SEARLES ROAD</b> State ID: 348 EPA ID: CTD982199150	<b>POMFRET ROAD</b>	<b>SW 1/4 - 1/2 (0.471 mi.)</b>	<b>4</b>	<b>59</b>

CT SDADB: Site Discovery and Assessment Database.

A review of the CT SDADB list, as provided by EDR, and dated 04/23/2010 has revealed that there is 1 CT SDADB site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CT DOT SEARLES ROAD</b> Facility Id: 348	<b>POMFRET ROAD</b>	<b>SW 1/4 - 1/2 (0.471 mi.)</b>	<b>4</b>	<b>59</b>



## EXECUTIVE SUMMARY

### ***State and tribal leaking storage tank lists***

CT LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's Leaking Underground Storage Tank List.

A review of the CT LUST list, as provided by EDR, and dated 07/24/2015 has revealed that there is 1 CT LUST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MAIORINO RESIDENCE</b> Lust Status: 1 Lust Status: 2 LUST Id: 45210 LUST Id: 29958	<b>426 CHURCH</b>	<b>S 1/8 - 1/4 (0.164 mi.)</b>	<b>A1</b>	<b>8</b>

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Other Ascertainable Records***

CT CPCS: A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

A review of the CT CPCS list, as provided by EDR, and dated 06/15/2015 has revealed that there are 3 CT CPCS sites within approximately 0.5 miles of the target property.

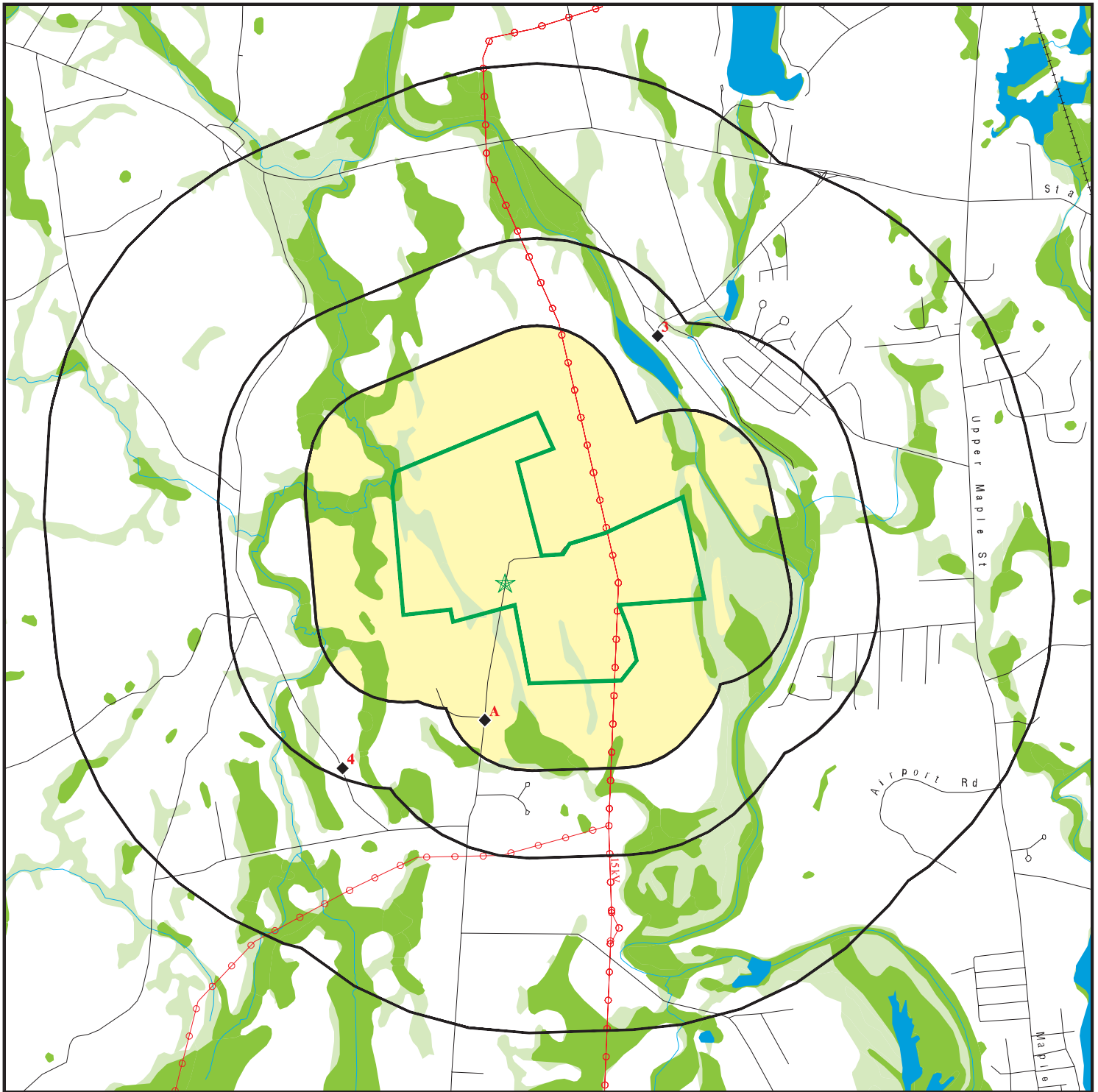
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MAIORINO RESIDENCE</b> Lust Status: Investigation	<b>426 CHURCH</b>	<b>S 1/8 - 1/4 (0.164 mi.)</b>	<b>A1</b>	<b>8</b>
<b>MAIORINO RESIDENCE</b> Lust Status: Pending	<b>426 CHURCH STREET</b>	<b>S 1/8 - 1/4 (0.164 mi.)</b>	<b>A2</b>	<b>13</b>
<b>CT DOT SEARLES ROAD</b>	<b>POMFRET ROAD</b>	<b>SW 1/4 - 1/2 (0.471 mi.)</b>	<b>4</b>	<b>59</b>










## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

<u>Site Name</u>	<u>Database(s)</u>
BOUDREAU WELDING	CT LUST, CT CPCS
WILLIAM PRYM CO. INC.	CT SHWS, CT SDADB, CT CPCS
DAYVILLE SHELL 136299	CT LUST, CT CPCS
ROGERS CORP	CT VCP, CT CPCS
ROGERS CORP	CT LUST, CT SPILLS
CT DOT POMFRET (HART # 33)	CT VCP

# OVERVIEW MAP - 4441785.2S



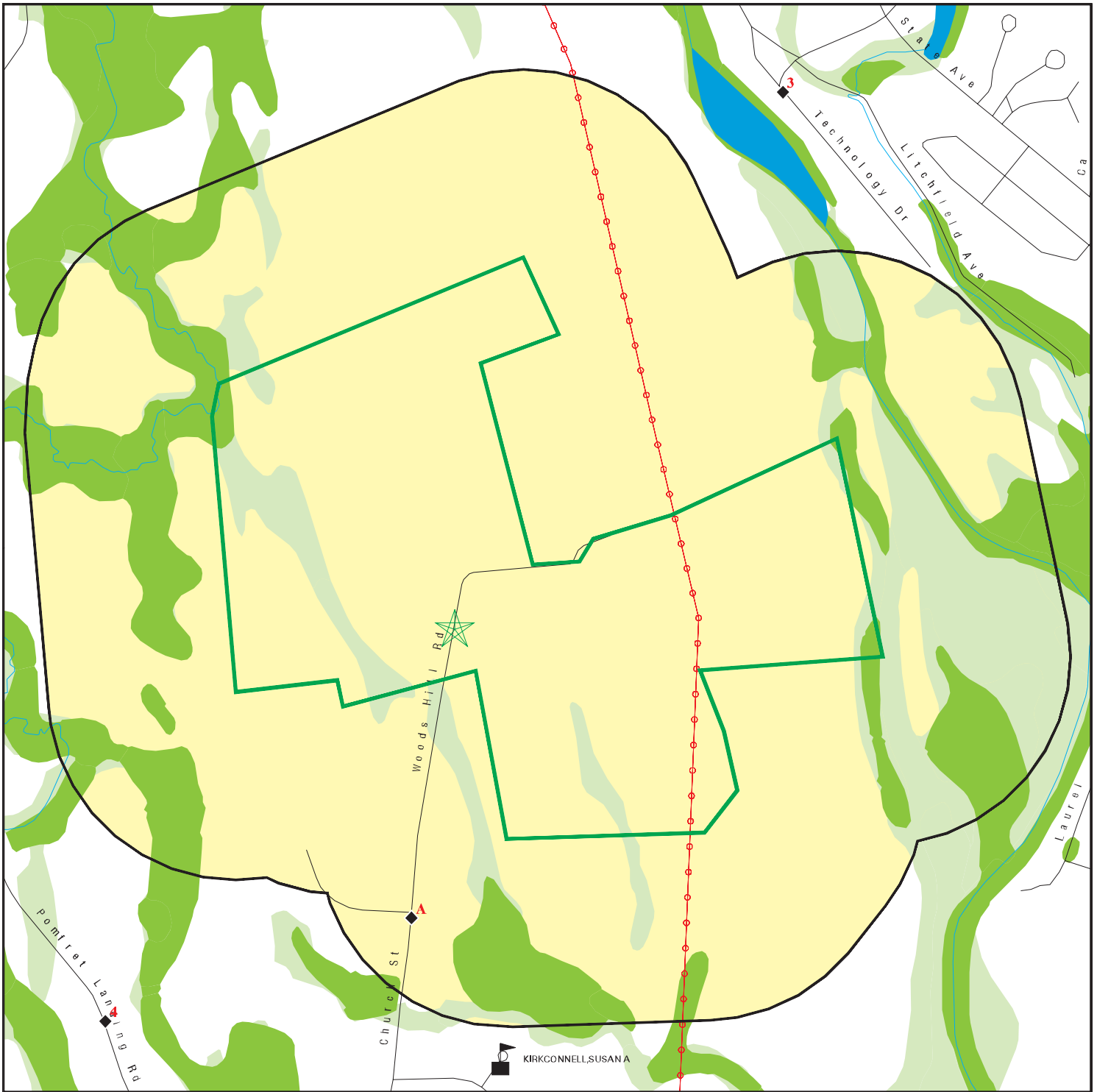
-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  National Wetland Inventory
-  State Wetlands








This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Nabozny Solar Site  
 ADDRESS: 101 Woods Hill Road  
 Pomfret CT 06259  
 LAT/LONG: 41.8309 / 71.9209

CLIENT: Tighe & Bond  
 CONTACT: Samantha Avis  
 INQUIRY #: 4441785.2s  
 DATE: October 19, 2015 7:15 pm

# DETAIL MAP - 4441785.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  National Wetland Inventory
-  State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Nabozny Solar Site  
 ADDRESS: 101 Woods Hill Road  
 Pomfret CT 06259  
 LAT/LONG: 41.8309 / 71.9209

CLIENT: Tighe & Bond  
 CONTACT: Samantha Avis  
 INQUIRY #: 4441785.2s  
 DATE: October 19, 2015 7:16 pm



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		0	0	1	NR	NR	1
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	0	1	NR	NR	1
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	1	0	NR	1
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
CT SHWS	1.000		0	0	1	0	NR	1
CT SDADB	0.500		0	0	1	NR	NR	1
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
CT SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
CT LUST	0.500		0	1	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CT UST	0.250		0	0	NR	NR	NR	0
CT AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
CT ENG CONTROLS	0.500		0	0	0	NR	NR	0
CT AUL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
CT VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
CT BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
CT SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CT CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
CT PROPERTY	TP		NR	NR	NR	NR	NR	0
CT LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
CT SPILLS	TP		NR	NR	NR	NR	NR	0
CT SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
CT AIRS	TP		NR	NR	NR	NR	NR	0
CT CPCS	0.500		0	2	1	NR	NR	3
CT DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CT ENF	TP		NR	NR	NR	NR	NR	0
CT Financial Assurance	TP		NR	NR	NR	NR	NR	0
CT LEAD	TP		NR	NR	NR	NR	NR	0
CT LWDS	0.250		0	0	NR	NR	NR	0
CT MANIFEST	0.250		0	0	NR	NR	NR	0
NJ MANIFEST	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
RI MANIFEST	0.250		0	0	NR	NR	NR	0
CT NPDES	TP		NR	NR	NR	NR	NR	0
CT SEH	0.500		0	0	0	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

CT RGA HWS	TP		NR	NR	NR	NR	NR	0
------------	----	--	----	----	----	----	----	---

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
CT RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	3	7	0	0	10

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**A1 MAIORINO RESIDENCE**  
**South 426 CHURCH**  
**1/8-1/4 BROOKLYN, CT 06234**  
**0.164 mi.**  
**868 ft. Site 1 of 2 in cluster A**

**CT LUST S102571269**  
**CT CPCS N/A**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**295 ft.**

LUST Id: 0  
UST Facility Id: 0  
LUST Case Id: 45210  
Lust Status: Pending  
Processing Status: continuing excavation by Shire  
EPA Reportable: False  
Motor Fuel: False  
Diesel: False  
Gasoline: False  
Other: False  
Other Release: Not reported  
No Release: False  
Leak: False  
Tank: False  
Piping: False  
Overfill: False  
Removal: False  
Incident Date: 03/17/1997  
Entry Date: Not reported  
Site Case Id: Not reported  
UST Site Id: 0  
Cost Recovery Spill Case #: 0  
Old SITS Number: 0  
Case Log Id: 388  
Monthly Report Id: 0  
UST Owner Id: 0  
LUST Owner Id: AG  
UST Event Id: 0  
Contact Info: Aaron Green LUST Program  
Contact EMail: Not reported  
Site Contact City,St,Zip: UNKNOWN  
2nd Contact: Not reported  
2nd Contact EMail: Not reported  
2nd Contact Address: Not reported  
2nd Contact City,St,Zip: UNKNOWN  
2nd Contact Address 2: Not reported  
2nd Contact City 2: Not reported  
2nd Contact Phone Number: Not reported  
2nd Contact Fax Number: Not reported  
2nd Contact Type: Not reported  
Facility City Num: 19  
Site Contact: Not reported  
Site Contact Address: Not reported  
Site Contact Add 2: Not reported  
Site Contact City 2: Not reported  
Site Contact Phone: Not reported  
Site Contact Fax: Not reported  
Site Contact Type: Not reported  
Department Contact 1: Not reported  
Department Contact 2: Not reported  
Referral Source: OCSR 3/27/97  
Offsite Source: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Date Referred: 1997-03-27 00:00:00  
Emergency: False  
Private Heating Fuel: True  
Commercial Heating Fuel: False  
Commercial HF < 2100 Gal.: False  
Commercial HF > 2100 Gal.: False  
Commercial HF - Size Unk: False  
No LUST Site: False  
Cost Recvry Prgm Candidate: False  
OCSR Complete: False  
Follow Up Flag: False  
Alternate Water Supply: False  
Relocation: False  
Responsible Party: False  
Responsible EMail: Not reported  
Resp Party Name: Not reported  
Resp Party Address: Not reported  
Resp Party City,St,Zip: Not reported  
Resp Party Town Number: UNKNOWN  
Resp Party Phone: Not reported  
Resp Party Fax: Not reported  
Resp Party Name 2: Not reported  
Resp Party Address 2: Not reported  
Resp Party Phone 2: Not reported  
Investigator Id: 20  
Follow Update: Not reported  
Area Lextent: Not reported  
Annual Precipitation: Not reported  
Affected Population: Not reported  
Population Setting: Not reported  
Ground Water Direction: Not reported  
Ground Water Gradient: Not reported  
Hydro Basin: Not reported  
Drastic: Not reported  
Geo Setting: Not reported  
Ground Water Classification: Not reported  
Receptor: Not reported  
Ground Water Flow Direction: Not reported  
Ground Water Depth: Not reported  
Areas Of Concern: Not reported  
Free Product Inches: Not reported  
Fund Date: Not reported  
Fund Planned: No  
Fund Obligated: No  
Fund Outlaid: No  
Fund Judgment: No  
Fund Recovered: No  
Cellar Borings: False  
Install Micro Wells: False  
Ground Water Sample: False  
Soil Sample: True  
Soil Gas: False  
Site Inspect: False  
Soil Excavate: True  
Geo Probe: False  
Survey: False  
Potable Well Sample: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	+ - 500 gal. #2 lost to soil
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	+ - 500 gal. #2 lost to soil
Running Comments:	tank removed previously, lines not removed, leak via lines to grave, soil & septic system removed
Work Performed:	excavate soil
LUST Id:	1849
UST Facility Id:	Not reported
LUST Case Id:	29958
Lust Status:	Investigation
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Overfill: False  
Removal: False  
Incident Date: 03/17/1997  
Entry Date: Not reported  
Site Case Id: Not reported  
UST Site Id: Not reported  
Cost Recovery Spill Case #: Not reported  
Old SITS Number: Not reported  
Case Log Id: Not reported  
Monthly Report Id: 0  
UST Owner Id: Not reported  
LUST Owner Id: Not reported  
UST Event Id: 1848  
Contact Info: Not reported  
Contact EMail: Not reported  
Site Contact City,St,Zip: UNKNOWN  
2nd Contact: Not reported  
2nd Contact EMail: Not reported  
2nd Contact Address: Not reported  
2nd Contact City,St,Zip: UNKNOWN  
2nd Contact Address 2: Not reported  
2nd Contact City 2: Not reported  
2nd Contact Phone Number: Not reported  
2nd Contact Fax Number: Not reported  
2nd Contact Type: Not reported  
Facility City Num: 19  
Site Contact: Not reported  
Site Contact Address: Not reported  
Site Contact Add 2: Not reported  
Site Contact City 2: Not reported  
Site Contact Phone: Not reported  
Site Contact Fax: Not reported  
Site Contact Type: Not reported  
Department Contact 1: Not reported  
Department Contact 2: Not reported  
Referral Source: Not reported  
Offsite Source: False  
Date Referred: Not reported  
Emergency: False  
Private Heating Fuel: True  
Commercial Heating Fuel: False  
Commercial HF < 2100 Gal.: False  
Commercial HF > 2100 Gal.: False  
Commercial HF - Size Unk: False  
No LUST Site: False  
Cost Recvry Prgm Candidate: False  
OCSR Complete: False  
Follow Up Flag: False  
Alternate Water Supply: False  
Relocation: False  
Responsible Party: False  
Responsible EMail: Not reported  
Resp Party Name: Not reported  
Resp Party Address: Not reported  
Resp Party City,St,Zip: Not reported  
Resp Party Town Number: UNKNOWN  
Resp Party Phone: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	20
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Rem Sys Install Date: Not reported  
Closure Date: Not reported  
Rem Sys Monitoring Rpt: False  
Qrtly Gwater Mon Rpts: False  
Closure Req Rpt: False  
DEP Closure Letter: False  
Referred To: Not reported  
No Wells: Not reported  
Lph Wells: Not reported  
User Stamp: Not reported  
Date Stamp: Not reported  
Correspondence: Action: Issued: Received:2/17/1999status date is date of data cleanup  
Environmental Impact: Not reported  
FollowUp: Not reported  
GW Comments: Not reported  
Location Desc: Not reported  
NOV Comments: Not reported  
Release Desc: Not reported  
Running Comments: tank removed previously, lines not removed, leak via lines to grave,  
soil & septic system removed  
Work Performed: Not reported

**CPCS:**

Site Type: LUST  
Lust Status code: 2  
Lust Status: Investigation  
PTP Form: Not reported  
Program: Not reported  
Comments: Tank Removed Previously, Lines Not Removed, Leak Via Lines To Grave,  
Soil & Septic System Removed  
Site Type Definition: Leaking Underground Storage Tanks Investigation

**A2**  
**South**  
**1/8-1/4**  
**0.164 mi.**  
**868 ft.**

**MAIORINO RESIDENCE**  
**426 CHURCH STREET**  
**BROOKLYN, CT 06234**  
**Site 2 of 2 in cluster A**

**CT CPCS S105738870**  
**N/A**

**Relative:**  
**Lower**

**CPCS:**

Site Type: LUST  
Lust Status code: 1  
Lust Status: Pending  
PTP Form: Not reported  
Program: Not reported  
Comments: Not reported  
Site Type Definition: Leaking Underground Storage Tanks Pending

**Actual:**  
**295 ft.**

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**3**  
**NNE**  
**1/4-1/2**  
**0.409 mi.**  
**2162 ft.**

**ROGERS CORP**  
**ONE TECHNOLOGY DR**  
**ROGERS, CT 06263**

**CERC-NFRAP** 1000217500  
**CORRACTS** CTD001141167  
**RCRA-TSDF**  
**RCRA-LQG**  
**US FIN ASSUR**  
**2020 COR ACTION**  
**US AIRS**  
**CT ENF**  
**CT Financial Assurance**  
**RI MANIFEST**  
**NY MANIFEST**  
**NJ MANIFEST**

**Relative:**  
**Lower**

**Actual:**  
**230 ft.**

**CERC-NFRAP:**

Site ID: 0102017  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: Deferred to RCRA

**CERCLIS-NFRAP Site Contact Details:**

Contact Sequence ID: 13326151.00000  
Person ID: 13004278.00000

**CERCLIS-NFRAP Site Alias Name(s):**

Alias Name: ROGERS CORP  
Alias Address: Not reported  
WINDHAM, CT

**Program Priority:**

Description: Environmental Justice Indicator

**CERCLIS-NFRAP Assessment History:**

Action: DISCOVERY  
Date Started: / /  
Date Completed: 07/12/85  
Priority Level: Not reported

Action: SITE INSPECTION  
Date Started: / /  
Date Completed: 01/19/90  
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 01/25/96  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 03/25/86  
Priority Level: Low priority for further assessment

**CORRACTS:**

EPA ID: CTD001141167  
EPA Region: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Area Name: ENTIRE FACILITY  
Actual Date: 19940503  
Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 19970805  
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 19970805  
Action: CA750IN - Migration of Contaminated Groundwater under Control, More information is needed to make a determination  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 19940411  
Action: CA050RF - RFA Completed, Assessment was an RFA  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 19980515  
Action: CA100 - RFI Imposition  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 20040421  
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: 20040930  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 20040421  
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: 20040930  
Schedule end date: Not reported

**RCRA-TSDF:**

Date form received by agency: 02/19/2014  
Facility name: ROGERS CORP  
Facility address: ONE TECHNOLOGY DR  
ROGERS, CT 06263  
EPA ID: CTD001141167  
Contact: MICHAL J WERBECKI  
Contact address: ONE TECHNOLOGY DR  
ROGERS, CT 06263  
Contact country: US  
Contact telephone: (860) 779-4765  
Contact email: MICHAL.WERBECKI@ROGERSCORPORATION.COM  
EPA Region: 01  
Land type: Private  
Classification: TSDF  
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: ROGERS CORP  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 05/15/1935  
Owner/Op end date: Not reported

Owner/operator name: ROGERS CORP  
Owner/operator address: TECHNOLOGY DR  
ROGERS, CT 06263  
Owner/operator country: US  
Owner/operator telephone: (860) 774-9605  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 05/15/1935  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: Yes  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D003  
. Waste name: REACTIVE WASTE

. Waste code: D008  
. Waste name: LEAD

. Waste code: D009  
. Waste name: MERCURY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste code: D011
- . Waste name: SILVER
  
- . Waste code: D022
- . Waste name: CHLOROFORM
  
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: LABP
- . Waste name: LAB PACK
  
- . Waste code: U044
- . Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-
  
- . Waste code: U159
- . Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)
  
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE
  
- . Waste code: U223
- . Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)
  
- . Waste code: U228
- . Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE
  
- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Historical Generators:

Date form received by agency: 02/23/2012

Site name: ROGERS CORP ROGERS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D003  
. Waste name: REACTIVE WASTE

. Waste code: D008  
. Waste name: LEAD

. Waste code: D009  
. Waste name: MERCURY

. Waste code: D011  
. Waste name: SILVER

. Waste code: D018  
. Waste name: BENZENE

. Waste code: D035  
. Waste name: METHYL ETHYL KETONE

. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040  
. Waste name: TRICHLORETHYLENE

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: LABP  
. Waste name: LAB PACK

. Waste code: U080



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
- . Waste code: U159
- . Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE
- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 05/06/2010

Site name: ROGERS CORP

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
- . Waste code: D003
- . Waste name: REACTIVE WASTE
- . Waste code: D008
- . Waste name: LEAD
- . Waste code: D009
- . Waste name: MERCURY
- . Waste code: D011
- . Waste name: SILVER
- . Waste code: D018
- . Waste name: BENZENE
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE
- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: LABP
- . Waste name: LAB PACK
  
- . Waste code: P098
- . Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
  
- . Waste code: U159
- . Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)
  
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE
  
- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)
  
- Date form received by agency: 02/25/2008
- Site name: ROGERS CORP
- Classification: Large Quantity Generator
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: LABP  
. Waste name: LAB PACK

Date form received by agency: 02/23/2006  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D003  
. Waste name: REACTIVE WASTE

. Waste code: D005  
. Waste name: BARIUM

. Waste code: D009  
. Waste name: MERCURY

. Waste code: D035  
. Waste name: METHYL ETHYL KETONE

. Waste code: F002  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: LABP
- . Waste name: LAB PACK
  
- . Waste code: P098
- . Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
  
- . Waste code: U002
- . Waste name: 2-PROPANONE (I) (OR) ACETONE (I)
  
- . Waste code: U154
- . Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

Date form received by agency: 03/03/2004

Site name: ROGERS CORP

Classification: Large Quantity Generator

- . Waste code: CR01
- . Waste name: WASTE PCBs
  
- . Waste code: CR02
- . Waste name: WASTE OIL
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003
- . Waste name: REACTIVE WASTE
  
- . Waste code: D006
- . Waste name: CADMIUM
  
- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: P022
- . Waste name: CARBON DISULFIDE
  
- . Waste code: P098
- . Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
  
- . Waste code: U044
- . Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-
  
- . Waste code: U057
- . Waste name: CYCLOHEXANONE (I)
  
- . Waste code: U080
- . Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
  
- . Waste code: U122
- . Waste name: FORMALDEHYDE
  
- . Waste code: U188
- . Waste name: PHENOL
  
- . Waste code: U201
- . Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL
  
- . Waste code: U211
- . Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-
  
- . Waste code: U213
- . Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)
  
- . Waste code: U225
- . Waste name: BROMOFORM (OR) METHANE, TRIBROMO-
  
- . Waste code: U228
- . Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE

Date form received by agency: 02/25/2004  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste name: REACTIVE WASTE
- . Waste code: D009
- . Waste name: MERCURY
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- . Waste code: P098
- . Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

Date form received by agency: 02/25/2000  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 02/27/1998  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 02/29/1996  
Site name: ROGERS CORP.  
Classification: Large Quantity Generator

Date form received by agency: 03/01/1994  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 02/20/1990  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 11/18/1980  
Site name: ROGERS CORP  
Classification: Not a generator, verified

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste code: D000
- . Waste name: Not Defined
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003
- . Waste name: REACTIVE WASTE
  
- . Waste code: D004
- . Waste name: ARSENIC
  
- . Waste code: D005
- . Waste name: BARIUM
  
- . Waste code: D006
- . Waste name: CADMIUM
  
- . Waste code: D007
- . Waste name: CHROMIUM
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F004
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
  
- . Waste code: F007
- . Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.
  
- . Waste code: F009
- . Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.
  
- . Waste code: P005
- . Waste name: 2-PROPEN-1-OL (OR) ALLYL ALCOHOL
  
- . Waste code: P012
- . Waste name: ARSENIC OXIDE AS<sub>2</sub>O<sub>3</sub> (OR) ARSENIC TRIOXIDE
  
- . Waste code: P014
- . Waste name: BENZENETHIOL (OR) THIOPHENOL
  
- . Waste code: P030
- . Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
  
- . Waste code: P054
- . Waste name: AZIRIDINE (OR) ETHYLENEIMINE
  
- . Waste code: P065
- . Waste name: FULMINIC ACID, MERCURY(2+) SALT (R,T) (OR) MERCURY FULMINATE (R,T)
  
- . Waste code: P105
- . Waste name: SODIUM AZIDE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste code:	P106
. Waste name:	SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)
. Waste code:	U002
. Waste name:	2-PROPANONE (I) (OR) ACETONE (I)
. Waste code:	U007
. Waste name:	2-PROPENAMIDE (OR) ACRYLAMIDE
. Waste code:	U008
. Waste name:	2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)
. Waste code:	U009
. Waste name:	2-PROPENITRILE (OR) ACRYLONITRILE
. Waste code:	U012
. Waste name:	ANILINE (I,T) (OR) BENZENAMINE (I,T)
. Waste code:	U019
. Waste name:	BENZENE (I,T)
. Waste code:	U030
. Waste name:	4-BROMOPHENYL PHENYL ETHER (OR) BENZENE, 1-BROMO-4-PHENOXY-
. Waste code:	U031
. Waste name:	1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)
. Waste code:	U037
. Waste name:	BENZENE, CHLORO- (OR) CHLOROBENZENE
. Waste code:	U044
. Waste name:	CHLOROFORM (OR) METHANE, TRICHLORO-
. Waste code:	U052
. Waste name:	CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-
. Waste code:	U056
. Waste name:	BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)
. Waste code:	U057
. Waste name:	CYCLOHEXANONE (I)
. Waste code:	U069
. Waste name:	1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE
. Waste code:	U080
. Waste name:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
. Waste code:	U088
. Waste name:	1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER (OR) DIETHYL PHTHALATE
. Waste code:	U102
. Waste name:	1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE
. Waste code:	U107
. Waste name:	1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste code: U112  
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U113  
. Waste name: 2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)

. Waste code: U117  
. Waste name: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

. Waste code: U122  
. Waste name: FORMALDEHYDE

. Waste code: U123  
. Waste name: FORMIC ACID (C,T)

. Waste code: U124  
. Waste name: FURAN (I) (OR) FURFURAN (I)

. Waste code: U125  
. Waste name: 2-FURANCARBOXALDEHYDE (I) (OR) FURFURAL (I)

. Waste code: U134  
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

. Waste code: U140  
. Waste name: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)

. Waste code: U144  
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U151  
. Waste name: MERCURY

. Waste code: U154  
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U156  
. Waste name: CARBOCHLORIDIC ACID, METHYL ESTER, (I,T) (OR) METHYL CHLOROCARBONATE (I,T)

. Waste code: U159  
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U160  
. Waste name: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

. Waste code: U161  
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

. Waste code: U162  
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)

. Waste code: U169  
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste code:	U188
. Waste name:	PHENOL
. Waste code:	U190
. Waste name:	1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE
. Waste code:	U196
. Waste name:	PYRIDINE
. Waste code:	U197
. Waste name:	2,5-CYCLOHEXADIENE-1,4-DIONE (OR) P-BENZOQUINONE
. Waste code:	U201
. Waste name:	1,3-BENZENEDIOL (OR) RESORCINOL
. Waste code:	U204
. Waste name:	SELENIOS ACID (OR) SELENIUM DIOXIDE
. Waste code:	U205
. Waste name:	SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)
. Waste code:	U210
. Waste name:	ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE
. Waste code:	U213
. Waste name:	FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)
. Waste code:	U219
. Waste name:	THIOUREA
. Waste code:	U220
. Waste name:	BENZENE, METHYL- (OR) TOLUENE
. Waste code:	U221
. Waste name:	BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE
. Waste code:	U222
. Waste name:	BENZENAMINE, 2-METHYL-, HYDROCHLORIDE (OR) O-TOLUIDINE HYDROCHLORIDE
. Waste code:	U223
. Waste name:	BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)
. Waste code:	U225
. Waste name:	BROMOFORM (OR) METHANE, TRIBROMO-
. Waste code:	U226
. Waste name:	ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM
. Waste code:	U228
. Waste name:	ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE
. Waste code:	U235
. Waste name:	1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1) (OR) TRIS(2,3,-DIBROMOPROPYL) PHOSPHATE
. Waste code:	U238
. Waste name:	CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 08/18/1980  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

- . Waste code: D000
- . Waste name: Not Defined

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D005
- . Waste name: BARIUM

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL



MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F004
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
  
- . Waste code: F007
- . Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.
  
- . Waste code: F009
- . Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.
  
- . Waste code: P005
- . Waste name: 2-PROPEN-1-OL (OR) ALLYL ALCOHOL
  
- . Waste code: P012
- . Waste name: ARSENIC OXIDE AS<sub>2</sub>O<sub>3</sub> (OR) ARSENIC TRIOXIDE
  
- . Waste code: P014
- . Waste name: BENZENETHIOL (OR) THIOPHENOL
  
- . Waste code: P019
- . Waste name: Not Defined
  
- . Waste code: P030

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED  
. Waste code: P053  
. Waste name: Not Defined  
. Waste code: P054  
. Waste name: AZIRIDINE (OR) ETHYLENEIMINE  
. Waste code: P065  
. Waste name: FULMINIC ACID, MERCURY(2+) SALT (R,T) (OR) MERCURY FULMINATE (R,T)  
. Waste code: P080  
. Waste name: Not Defined  
. Waste code: P090  
. Waste name: Not Defined  
. Waste code: P100  
. Waste name: Not Defined  
. Waste code: P105  
. Waste name: SODIUM AZIDE  
. Waste code: P106  
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)  
. Waste code: U002  
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)  
. Waste code: U007  
. Waste name: 2-PROPENAMIDE (OR) ACRYLAMIDE  
. Waste code: U008  
. Waste name: 2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)  
. Waste code: U009  
. Waste name: 2-PROPENITRILE (OR) ACRYLONITRILE  
. Waste code: U012  
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)  
. Waste code: U013  
. Waste name: Not Defined  
. Waste code: U019  
. Waste name: BENZENE (I,T)  
. Waste code: U030  
. Waste name: 4-BROMOPHENYL PHENYL ETHER (OR) BENZENE, 1-BROMO-4-PHENOXY-  
. Waste code: U031  
. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)  
. Waste code: U037  
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE  
. Waste code: U044

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-  
. Waste code: U052  
. Waste name: CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-  
. Waste code: U054  
. Waste name: Not Defined  
. Waste code: U056  
. Waste name: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)  
. Waste code: U057  
. Waste name: CYCLOHEXANONE (I)  
. Waste code: U069  
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE  
. Waste code: U080  
. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE  
. Waste code: U088  
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER (OR) DIETHYL PHTHALATE  
. Waste code: U102  
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE  
. Waste code: U107  
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE  
. Waste code: U112  
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)  
. Waste code: U113  
. Waste name: 2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)  
. Waste code: U117  
. Waste name: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)  
. Waste code: U122  
. Waste name: FORMALDEHYDE  
. Waste code: U123  
. Waste name: FORMIC ACID (C,T)  
. Waste code: U124  
. Waste name: FURAN (I) (OR) FURFURAN (I)  
. Waste code: U125  
. Waste name: 2-FURANCARBOXALDEHYDE (I) (OR) FURFURAL (I)  
. Waste code: U134  
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)  
. Waste code: U140  
. Waste name: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)  
. Waste code: U144

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE  
. Waste code: U151  
. Waste name: MERCURY  
. Waste code: U154  
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)  
. Waste code: U156  
. Waste name: CARBONCHLORIDIC ACID, METHYL ESTER, (I,T) (OR) METHYL CHLOROCARBONATE (I,T)  
. Waste code: U159  
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)  
. Waste code: U160  
. Waste name: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)  
. Waste code: U161  
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-  
. Waste code: U162  
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)  
. Waste code: U169  
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)  
. Waste code: U188  
. Waste name: PHENOL  
. Waste code: U190  
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE  
. Waste code: U196  
. Waste name: PYRIDINE  
. Waste code: U197  
. Waste name: 2,5-CYCLOHEXADIENE-1,4-DIONE (OR) P-BENZOQUINONE  
. Waste code: U201  
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL  
. Waste code: U204  
. Waste name: SELENIOUS ACID (OR) SELENIUM DIOXIDE  
. Waste code: U205  
. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)  
. Waste code: U210  
. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE  
. Waste code: U213  
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)  
. Waste code: U219



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste name: THIOUREA
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE
- . Waste code: U221
- . Waste name: BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE
- . Waste code: U222
- . Waste name: BENZENAMINE, 2-METHYL-, HYDROCHLORIDE (OR) O-TOLUIDINE HYDROCHLORIDE
- . Waste code: U223
- . Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)
- . Waste code: U225
- . Waste name: BROMOFORM (OR) METHANE, TRIBROMO-
- . Waste code: U226
- . Waste name: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM
- . Waste code: U228
- . Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE
- . Waste code: U229
- . Waste name: Not Defined
- . Waste code: U235
- . Waste name: 1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1) (OR) TRIS(2,3,-DIBROMOPROPYL) PHOSPHATE
- . Waste code: U238
- . Waste name: CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)
- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

- Waste code: D001
- Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 22713

- Waste code: D002
- Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ROGERS CORP (Continued)

1000217500

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 2961

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Amount (Lbs): 579

Waste code: D005  
Waste name: BARIUM  
Amount (Lbs): 485

Waste code: D008  
Waste name: LEAD  
Amount (Lbs): 785

Waste code: D009  
Waste name: MERCURY  
Amount (Lbs): 781

Waste code: D011  
Waste name: SILVER  
Amount (Lbs): 120

Waste code: D018  
Waste name: BENZENE  
Amount (Lbs): 985

Waste code: D035  
Waste name: METHYL ETHYL KETONE  
Amount (Lbs): 4250

Waste code: D039  
Waste name: TETRACHLOROETHYLENE  
Amount (Lbs): 500

Waste code: D040  
Waste name: TRICHLOROETHYLENE  
Amount (Lbs): 500

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 20025

Waste code: F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 4250

Waste code: LABP  
Waste name: LAB PACK  
Amount (Lbs): 485

Waste code: U080  
Waste name: METHANE, DICHLORO-  
Amount (Lbs): 485

Waste code: U159  
Waste name: 2-BUTANONE (I,T)  
Amount (Lbs): 1723

Waste code: U220  
Waste name: BENZENE, METHYL-  
Amount (Lbs): 1685

Waste code: U239  
Waste name: BENZENE, DIMETHYL- (I,T)  
Amount (Lbs): 1685

**Corrective Action Summary:**

Event date: 04/11/1994  
Event: RFA Completed, Assessment was an RFA.

Event date: 05/03/1994  
Event: CA Prioritization, Facility or area was assigned a high corrective action priority.

Event date: 08/05/1997  
Event: Current Human Exposures under Control, More information is needed to make a determination.

Event date: 08/05/1997  
Event: Igration of Contaminated Groundwater under Control, More information is needed to make a determination.

Event date: 05/15/1998  
Event: RFI Imposition

Event date: 04/21/2004  
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Event date: 04/21/2004  
Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: State Statute or Regulation  
Date violation determined: 01/23/2008  
Date achieved compliance: 02/28/2008  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/30/2008  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 02/28/2008  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD IS-Financial Requirements  
Date violation determined: 12/20/2006  
Date achieved compliance: 12/06/2007  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 03/16/2007  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 12/06/2007  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD IS-Financial Requirements  
Date violation determined: 09/05/2006  
Date achieved compliance: 12/06/2007  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 03/16/2007  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 12/06/2007  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c0-102(a))  
Area of violation: Generators - Pre-transport



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Date violation determined: 02/19/1997  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-102(a)(2)(E)  
Area of violation: Generators - Pre-transport  
Date violation determined: 02/19/1997  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-102(a)  
Area of violation: Generators - Pre-transport  
Date violation determined: 02/19/1997  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-102(a)  
Area of violation: Generators - General  
Date violation determined: 02/19/1997  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 105(a)(1)(D)  
Area of violation: TSD IS-General Facility Standards  
Date violation determined: 08/11/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Date achieved compliance: 02/26/1997  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 105(a) 102(a)  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date violation determined: 08/11/1993  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-105(a)  
Area of violation: Generators - Pre-transport  
Date violation determined: 08/11/1993  
Date achieved compliance: 02/19/1997  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22(a)-449(c) - 102(a)  
Area of violation: Generators - General  
Date violation determined: 08/11/1993  
Date achieved compliance: 02/19/1997  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-102(a)  
Area of violation: Generators - General  
Date violation determined: 08/11/1993  
Date achieved compliance: 02/19/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 05/23/1990  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 05/23/1990  
Date achieved compliance: 01/08/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Financial Requirements  
Date violation determined: 05/23/1990  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 11/09/1988  
Date achieved compliance: 09/25/1991  
Violation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 08/12/1987  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Formal Enforcement Agreement or Order  
Date violation determined: 08/12/1987  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 05/05/1986  
Date achieved compliance: 03/31/1989  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/07/1986  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Financial Requirements  
Date violation determined: 11/08/1985  
Date achieved compliance: 02/19/1986  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Enforcement action date: 02/11/1986  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 04/24/1985  
Date achieved compliance: 03/31/1989  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/12/1985  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

**Evaluation Action Summary:**

Evaluation date: 01/29/2014  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/30/2012  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 01/23/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: State Statute or Regulation  
Date achieved compliance: 02/28/2008  
Evaluation lead agency: State

Evaluation date: 12/20/2006  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: TSD IS-Financial Requirements  
Date achieved compliance: 12/06/2007  
Evaluation lead agency: State

Evaluation date: 09/05/2006  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: TSD IS-Financial Requirements  
Date achieved compliance: 12/06/2007  
Evaluation lead agency: State

Evaluation date: 09/22/1999  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 01/19/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Evaluation lead agency: State

Evaluation date: 09/22/1999  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 01/08/1999  
Evaluation lead agency: State

Evaluation date: 09/22/1999  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Generators - General  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 09/22/1999  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 02/19/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 01/08/1999  
Evaluation lead agency: State

Evaluation date: 02/19/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 02/19/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 02/19/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 08/11/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 08/11/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD IS-General Facility Standards  
Date achieved compliance: 02/26/1997  
Evaluation lead agency: State

Evaluation date: 08/11/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 02/19/1997  
Evaluation lead agency: State

Evaluation date: 08/11/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 02/19/1997  
Evaluation lead agency: State

Evaluation date: 08/11/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 01/08/1999  
Evaluation lead agency: State

Evaluation date: 09/25/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/23/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 01/08/1999  
Evaluation lead agency: State

Evaluation date: 05/23/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 05/23/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Financial Requirements  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 11/09/1988  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 08/12/1987  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 08/12/1987  
Evaluation: GROUNDWATER MONITORING EVALUATION  
Area of violation: TSD - General  
Date achieved compliance: 09/25/1991

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Evaluation lead agency: State

Evaluation date: 08/12/1987  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Formal Enforcement Agreement or Order  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 05/05/1986  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/05/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 03/31/1989  
Evaluation lead agency: State

Evaluation date: 11/08/1985  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: TSD - Financial Requirements  
Date achieved compliance: 02/19/1986  
Evaluation lead agency: State

Evaluation date: 04/24/1985  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 03/31/1989  
Evaluation lead agency: State

**US FIN ASSUR:**

EPA ID: CTD001141167  
Provider: ROGERS CORPORATION  
EPA region: 1  
County: WINDHAM  
Mechanism type: FINANCIAL TEST  
Mechanism ID: FINANCIAL TEST  
Cost estimate: 126560  
Face value: 123957  
Effective date: 3/23/2012

**2020 COR ACTION:**

EPA ID: CTD001141167  
Region: 1  
Action: Not reported

**ENFORCEMENT:**

Enforcement Action ID: NOVWSWDH07028  
Enforcement Type Code: NOV  
Program Id: HWENF  
Enforcement Action Date: 03/16/2007  
Penalty Amount: Not reported  
Sep Amt: Not reported  
Bureau Name: BUREAU OF WASTE MANAGEMENT  
Program: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Status: Not reported  
Date of Discovery: Not reported  
Resolution Date: Not reported  
Resolution Type: Not reported  
Staff: Not reported  
ENF Action Comment: Not reported  
Number Violations: Not reported  
Civil Penalty: Not reported  
SEP Description: Not reported  
Associated Els: Not reported  
Client Affiliation Type: Not reported  
Affiliation Name: Not reported  
Affiliation Address Line1: Not reported  
Affiliation Address Line2: Not reported  
Affiliation City/State/Zip: Not reported  
Contact Title: Not reported  
Contact Name: Not reported  
Contact EMail: Not reported

**CT Financial Assurance 1:**

Region: 1  
I.D. NUMBER: CTD001141167  
Owner Name: Rogers Corporation  
Closure Costs: 128712  
Post Closure Costs: 0  
Correction Action Costs: 0  
Corporate Guarantee: Not reported  
Financial Test: Yes  
Certificate of Insurance: Not reported  
Letter of Credit: Not reported  
Trust Fund: Not reported  
Surety Bond: Not reported  
Other: Not reported

**RI MANIFEST:**

EPA Id: CTD001141167  
Manifest Document Number: CTF0920702  
GEN Cert Date: 2/1/2001  
TSDf Id: RID040098352  
TSDf Name: NORTHLAND ENVIRONMENTAL INC.  
TSDf Date: Not reported  
Transporter 2 Id: Not reported  
Transporter 2 Name: Not reported  
Transporter Receipt Date: Not reported  
Number Of Containers: 0  
Container Type: Not reported  
Waste Code1: CR04  
Waste Code2: Not reported  
Waste Code3: Not reported  
Fee Exempt Code: Not reported  
Comment: Not reported

**Details:**

EPA ID: CTD001141167  
Manifest Docket Number: CTF0920702  
Waste Description: RAIN WATER  
Quantity: 170

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

WT/Vol Units: G  
Item Number: 14120  
Transporter Name: FLEET ENVIRONMENTAL SERVICES  
Transporter EPA ID: MA5000004531  
GEN Cert Date: 2/1/2001  
Transporter Receipt Date: Not reported  
Transporter 2 Receipt Date: Not reported  
TSD Receipt Date: Not reported  
Transporter 2 ID: Not reported

**NY MANIFEST:**

EPA ID: CTD001141167  
Country: USA  
Location Address 1: MAIN STREET  
Location Address 2: Not reported  
Location City: ROGERS  
Location State: CT  
Location Zip Code: 06263  
Location Zip Code 4: Not reported

**Mailing Info:**

Name: ROGERS CORPORATION  
Contact: LEE ROBERT F MGR ENVIR EN  
Address: MAIN STREET  
City/State/Zip: ROGERS, CT 06263  
Country: USA  
Phone: 203-774-1312

**Manifest:**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: MAD985286988  
Trans2 State ID: NYD982792814  
Generator Ship Date: 11/05/2009  
Trans1 Recv Date: 11/05/2009  
Trans2 Recv Date: 11/17/2009  
TSD Site Recv Date: 11/18/2009  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD049836679  
Waste Code: Not reported  
Quantity: 4950.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 1.0  
Container Type: TP - Tanks, portable  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 002877453FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: MAD985286988  
Trans2 State ID: NYD982792814  
Generator Ship Date: 11/05/2009  
Trans1 Recv Date: 11/05/2009  
Trans2 Recv Date: 11/17/2009  
TSD Site Recv Date: 11/18/2009  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD049836679  
Waste Code: Not reported  
Quantity: 4950.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 1.0  
Container Type: TP - Tanks, portable  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 002877453FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD046765574  
Trans2 State ID: Not reported  
Generator Ship Date: 05/02/2007  
Trans1 Recv Date: 05/02/2007  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 05/03/2007  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID: NYD049836679  
Waste Code: Not reported  
Quantity: 18180  
Units: P - Pounds  
Number of Containers: 1  
Container Type: CM - Metal boxes, cases, roll-offs  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2007  
Manifest Tracking Num: 002546320JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H132

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: MAC300008059  
Trans2 State ID: Not reported  
Generator Ship Date: 08/15/2007  
Trans1 Recv Date: 08/15/2007  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 08/16/2007  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID: NYD049836679  
Waste Code: Not reported  
Quantity: 3180  
Units: P - Pounds  
Number of Containers: 1  
Container Type: CM - Metal boxes, cases, roll-offs  
Handling Method: L Landfill.  
Specific Gravity: 1  
Year: 2007  
Manifest Tracking Num: 000164944JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H132

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD046765574  
Trans2 State ID: Not reported  
Generator Ship Date: 05/04/2007  
Trans1 Recv Date: 05/04/2007  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 05/07/2007  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD049836679  
Waste Code: Not reported  
Quantity: 23180  
Units: P - Pounds  
Number of Containers: 1  
Container Type: CM - Metal boxes, cases, roll-offs  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2007  
Manifest Tracking Num: 002546316JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H132

Document ID: NYG0649152  
Manifest Status: Not reported  
Trans1 State ID: 246928TN  
Trans2 State ID: Not reported  
Generator Ship Date: 11/03/1998  
Trans1 Recv Date: 11/03/1998  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 11/04/1998  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: MAD084814136  
Trans2 EPA ID: Not reported  
TSD ID: NYD049836679  
Waste Code: B003 - PETROLEUM OIL WITH 500 PPM OR > PCB  
Quantity: 00200  
Units: K - Kilograms (2.2 pounds)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Number of Containers: 002  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 01.00  
Year: 1998

Document ID: NYO2909079  
Manifest Status: Completed copy  
Trans1 State ID: CT019  
Trans2 State ID: Not reported  
Generator Ship Date: 03/24/1983  
Trans1 Recv Date: 03/24/1983  
Trans2 Recv Date: / /  
TSD Site Recv Date: 03/31/1983  
Part A Recv Date: 04/07/2003  
Part B Recv Date: 04/07/2003  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: CTD000636498  
Trans2 EPA ID: Not reported  
TSD ID: NYD080336241  
Waste Code: B005 - PCB ARTICLES WITH 500 PPM OR > PCB  
Quantity: 00518  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: L Landfill.  
Specific Gravity: 100  
Year: 1983

Document ID: NYB7449282  
Manifest Status: Completed copy  
Trans1 State ID: 4905BXOK  
Trans2 State ID: 4903BXOK  
Generator Ship Date: 05/01/1996  
Trans1 Recv Date: 05/01/1996  
Trans2 Recv Date: 05/13/1996  
TSD Site Recv Date: 05/13/1996  
Part A Recv Date: 05/09/1996  
Part B Recv Date: 05/22/1996  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: ARD981908551  
Trans2 EPA ID: ARD981908551  
TSD ID: NYD000632372  
Waste Code: D003 - NON-LISTED REACTIVE WASTES  
Quantity: 00010  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Year: 1996

Document ID: NYB7660152  
Manifest Status: Completed after the designated time period for a TSD to get a copy to the DEC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Trans1 State ID: TN78923  
Trans2 State ID: Not reported  
Generator Ship Date: 06/26/1996  
Trans1 Recv Date: 06/26/1996  
Trans2 Recv Date: / /  
TSD Site Recv Date: 07/15/1996  
Part A Recv Date: 08/23/1996  
Part B Recv Date: 07/29/1996  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: CT5000000570  
Trans2 EPA ID: Not reported  
TSDF ID: NY0000343889  
Waste Code: D009 - MERCURY 0.2 MG/L TCLP  
Quantity: 00150  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: D009 - MERCURY 0.2 MG/L TCLP  
Quantity: 00040  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 1996

Document ID: NYB4164246  
Manifest Status: Completed copy  
Trans1 State ID: PD9796NY  
Trans2 State ID: Not reported  
Generator Ship Date: 06/17/1994  
Trans1 Recv Date: 06/17/1994  
Trans2 Recv Date: / /  
TSD Site Recv Date: 06/21/1994  
Part A Recv Date: 07/11/1994  
Part B Recv Date: 06/30/1994  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: NYD980769947  
Trans2 EPA ID: Not reported  
TSDF ID: NYD000632372  
Waste Code: D003 - NON-LISTED REACTIVE WASTES  
Quantity: 00015  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Year: 1994

Document ID: NYA6089247  
Manifest Status: Completed copy  
Trans1 State ID: S62738NY  
Trans2 State ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Generator Ship Date: 02/27/1987  
Trans1 Recv Date: 02/27/1987  
Trans2 Recv Date: / /  
TSD Site Recv Date: 03/03/1987  
Part A Recv Date: 03/17/1987  
Part B Recv Date: 03/06/1987  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: NYD097644801  
Trans2 EPA ID: Not reported  
TSDF ID: NYD000632372  
Waste Code: D004 - ARSENIC 5.0 MG/L TCLP  
Quantity: 00025  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Year: 1987

Document ID: NYA5462964  
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC  
Trans1 State ID: S62738NY  
Trans2 State ID: Not reported  
Generator Ship Date: 09/15/1987  
Trans1 Recv Date: 09/15/1987  
Trans2 Recv Date: / /  
TSD Site Recv Date: 09/22/1987  
Part A Recv Date: 10/22/1987  
Part B Recv Date: 09/24/1987  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: NYD097644801  
Trans2 EPA ID: Not reported  
TSDF ID: NYD000632372  
Waste Code: D002 - NON-LISTED CORROSIVE WASTES  
Quantity: 00025  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Waste Code: D002 - NON-LISTED CORROSIVE WASTES  
Quantity: 00025  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Waste Code: D002 - NON-LISTED CORROSIVE WASTES  
Quantity: 00025  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00025



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 1987

Document ID: NYO2372841  
Manifest Status: Completed copy  
Trans1 State ID: MA005  
Trans2 State ID: Not reported  
Generator Ship Date: 05/09/1984  
Trans1 Recv Date: 05/09/1984  
Trans2 Recv Date: / /  
TSD Site Recv Date: 05/10/1984  
Part A Recv Date: 05/14/1984  
Part B Recv Date: 05/21/1984  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: MAD062179890  
Trans2 EPA ID: Not reported  
TSDF ID: NYD080469935  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00150  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 001  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 1984

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: MAD985286988  
Trans2 State ID: NYD982792814  
Generator Ship Date: 06/07/2010  
Trans1 Recv Date: 06/07/2010  
Trans2 Recv Date: 06/21/2010  
TSD Site Recv Date: 06/22/2010  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID: NYD049836679  
Waste Code: Not reported  
Quantity: 1129.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 1.0  
Container Type: TP - Tanks, portable  
Handling Method: L Landfill.  
Specific Gravity: 1.0  
Year: 2010  
Manifest Tracking Num: 003185924FLE  
Import Ind: N  
Export Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

**NJ MANIFEST:**

EPA Id: CTD001141167  
Mail Address: Not reported  
Mail City/State/Zip: Not reported  
Facility Phone: Not reported  
Emergency Phone: Not reported  
Contact: Not reported  
Comments: Not reported  
SIC Code: Not reported  
County: 00  
Municipal: 00  
Previous EPA Id: Not reported  
Gen Flag: X  
Trans Flag: Not reported  
TSDf Flag: X  
Name Change: Not reported  
Date Change: Not reported

**Manifest:**

Manifest Number: 000141295VES  
EPA ID: CTD001141167  
Date Shipped: 09/25/2007  
TSDf EPA ID: NJD980536593  
Transporter EPA ID: NJD080631369  
Transporter 2 EPA ID: NJD054126164  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 09/25/2007  
Date Trans2 Transported Waste: 09/28/2007  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 09/28/2007  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: No  
Reason Load Was Rejected: Not reported

Waste:

Manifest Year: Not reported  
Waste Code: D003  
Hand Code: H14  
Quantity: 1 P

Manifest Number: NJA5123435  
EPA ID: CTD001141167  
Date Shipped: 05/11/2004  
TSDf EPA ID: NJD980536593  
Transporter EPA ID: NJD080631369  
Transporter 2 EPA ID: NJD054126164  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 05/12/2004  
Date Trans2 Transported Waste: 05/17/2004  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 05/18/2004  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06070422  
Was Load Rejected: No  
Reason Load Was Rejected: Not reported

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**4**  
**SW**  
**1/4-1/2**  
**0.471 mi.**  
**2489 ft.**

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE**  
**POMFRET ROAD**  
**POMFRET, CT 06258**

**CERCLIS 1000230561**  
**CT SHWS CTD982199150**  
**CT SDADB**  
**CT CPCS**

**Relative:**  
**Lower**

CERCLIS:  
 Site ID: 0101604  
 EPA ID: CTD982199150  
 Facility County: WINDHAM  
 Short Name: CT DOT SEARLES ROAD DISPO  
 Congressional District: 02  
 IFMS ID: Not reported  
 SMSA Number: Not reported  
 USGC Hydro Unit: 01100001  
 Federal Facility: Not a Federal Facility  
 DMNSN Number: 0.00000  
 Site Orphan Flag: N  
 RCRA ID: Not reported  
 USGS Quadrangle: Not reported  
 Site Init By Prog: Not reported  
 NFRAP Flag: Not reported  
 Parent ID: Not reported  
 RST Code: Not reported  
 EPA Region: 01  
 Classification: Not reported  
 Site Settings Code: Not reported  
 NPL Status: Not on the NPL  
 DMNSN Unit Code: Not reported  
 RBRAC Code: Not reported  
 RResp Fed Agency Code: Not reported  
 Non NPL Status: Other Cleanup Activity: State-Lead Cleanup  
 Non NPL Status Date: 12/27/02  
 Site Fips Code: 09015  
 CC Concurrence Date: / /  
 CC Concurrence FY: Not reported  
 Alias EPA ID: Not reported  
 Site FUDS Flag: Not reported

**Actual:**  
**286 ft.**

CERCLIS Site Contact Name(s):

Contact ID: 13004278.00000  
 Contact Name: Margaret Morris  
 Contact Tel: Not reported  
 Contact Title: Site Assessment Manager (SAM)  
 Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 101  
 Alias Name: POMFRET DOT GARAGE  
 Alias Address: POMFRET LANDING ROAD  
 BROOKLYN, CT 06234  
 Alias Comments: Not reported  
 Site Description: Based upon state letter of 05-17-02

CERCLIS Assessment History:

Action Code: 001  
 Action: DISCOVERY  
 Date Started: / /



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE (Continued)**

**1000230561**

Date Completed: 09/11/87  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 01/29/88  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: SITE INSPECTION  
Date Started: / /  
Date Completed: 07/07/93  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: SITE REASSESSMENT  
Date Started: / /  
Date Completed: 08/02/01  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

**SHWS:**

State ID: 348  
PTP Id Number: Not reported  
WPC Number: Not reported  
EPA ID: CTD982199150  
PO Office: Not reported  
Lat/Long: /  
Location Method: Not reported  
Groundwater Class: GA  
Surface Water Qualification: A  
Waste Category: CHLR VOC, SOLVENTS  
Disposal Method: LANDFILL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE (Continued)**

**1000230561**

Sample: False  
Other Dept of Env. Protection: DOT  
Updated By: BOBOWICZ, H. A.  
Update Program: FPRE  
Date Updated: 4/28/1993  
Duplicate: False  
Program: SUPERFUND  
Inventory Date: 7/6/1987  
On Inventory: True  
Assessed: True  
87 Group: EN  
87 Origin: INVENTORY  
On 87: True  
Comments: UNDER STUDY BY DOT. (7/87) CERCLIS AND INVENTORY SHOW SITE ON SEARLES ROAD IN POMFRET. CERCLIS TO BE CORRECTED (6/93)

Site Discovery and Assessment:

Facility ID: 348  
Rem Master ID: 443  
PTP Id: Not reported  
WPC Number: Not reported  
Postal District: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Lat/Long Determined By: Not reported  
Ground Water Quality Classification: GA  
Surface Water Quality Classification: A  
Waste Type: CHLR VOC, SOLVENTS  
Disposal: LANDFILL  
Sample Data Available: False  
Updated By: BOBOWICZ, H. A.  
Update Program: FPRE  
Updated: 4/28/1993  
Date Created: Not reported  
Duplicate: False

SDA Federal:

EPA CERCLIS Id: Not reported  
Number EPA RCRIS Id: Not reported  
Site on EPA's CERCLIS: True  
Site Archived from CERCLIS: False  
Archive Date: Not reported  
EPA's Removal at Site: False  
Deferred to another EPA Program: False  
EPA Env Priority Initiative Site: False  
Federal Facility: False  
Site on EPA's National Priority List: False  
Part of an NPL site: False  
RCRA Generator Status: Not reported  
RCRA Permit Status: Not reported

SDA Referral:

Referral Id: 341  
Source of referral: SUPERFUND  
Date Received: 7/6/1987  
Staff Assigned: DEP  
Remediation Program: SUPERFUND  
Date dt\_assigned: 7/6/1987

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE (Continued)**

**1000230561**

Remediation Complete Approved DEP/Verified by LEP: 7/6/1987  
Outcome: INVENTORY

SDA Remedial:  
Remedial Id: Not reported  
PTP Id: Not reported  
Remediation Program: Not reported  
Remediation Program Entered: Not reported  
Staff Assigned: Not reported  
Remediation Program: Not reported  
Date dt\_assign: Not reported  
Project Phase: Not reported  
Order issued: Not reported  
Order Number: Not reported  
Date order issued: Not reported  
Remedial Investigation Start: Not reported  
Remedial Investigation Completed: Not reported  
Remedial Design Start: Not reported  
Remedial Design complet: Not reported  
Remedial Action Start: Not reported  
Remedial Action Completed: Not reported  
Date Oper/ maintenance Started: Not reported  
GW monitoring: Not reported  
Remediation complete Approved DEP/Verified by LEP: Not reported

SDA Orders:  
Order Id: Not reported  
Order Number: Not reported  
Date order issued: Not reported  
Staff Assigned: Not reported  
Type of Order: Not reported  
Order Respondent: Not reported  
Admin Appeal Date: Not reported  
Date of Admin Appeal Ruling: Not reported  
Date of Admin Appeal Ruling: Not reported  
Date of Final Order: Not reported  
Date of Court Appeal: Not reported  
Date of Court Ruling: Not reported  
Date of Court Ruling: Not reported  
Date Order Modified: Not reported  
Date Referred to AG: Not reported  
Judgement: Not reported  
Date of AGR judgement: Not reported  
Penalty assessed: Not reported  
Order Complete: Not reported  
In compliance: Not reported  
Comments: Not reported

SDADB:

SDA Waste:  
Waste Id: 5  
Waste Type: CHLR VOC  
Description: Chlorinated Volatile Organic Compounds

CPCS:  
Site Type: Sites  
Lust Status code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE (Continued)**

**1000230561**

Lust Status: Not reported  
PTP Form: Not reported  
Program: -1  
Comments: Under Study By Dot. (7/87) Cerclis And Inventory Show Site On Searles Road In Pomfret. Cerclis To Be Corrected (6/93)  
Site Type Definition: Inventory of Hazardous Waste Disposal Sites



Count: 6 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DAYVILLE	S105738637	BOUDREAU WELDING	MAIN ST.	06241	CT LUST, CT CPCS
KILLINGLY	S100996733	WILLIAM PRYM CO. INC.	ROUTE 101	06239	CT SHWS, CT SDADB, CT CPCS
KILLINGLY	S110775258	DAYVILLE SHELL 136299	1095 NORTH MAIN STREET (ROUTE	06239	CT LUST, CT CPCS
KILLINGLY	U002023313	ROGERS CORP	1 TECHNOLOGY DR.	06239	CT VCP, CT CPCS
KILLINGLY	S110280374	ROGERS CORP	1 TECHNOLOGY DR.	06239	CT LUST, CT SPILLS
POMFRET	S110280760	CT DOT POMFRET (HART # 33)	SEARLES ROAD		CT VCP

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 07/10/2015
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal institutional controls / engineering controls registries***

### **LUCIS: Land Use Control Information System**

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 08/12/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/30/2015
	Data Release Frequency: Varies

### **US ENG CONTROLS: Engineering Controls Sites List**

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/26/2015	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 08/31/2015
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/14/2015
	Data Release Frequency: Varies

### **US INST CONTROL: Sites with Institutional Controls**

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/26/2015	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 08/31/2015
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/14/2015
	Data Release Frequency: Varies

## ***Federal ERNS list***

### **ERNS: Emergency Response Notification System**

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-267-2180
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 06/26/2015
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Annually

## ***State- and tribal - equivalent CERCLIS***

### **SHWS: Inventory of Hazardous Disposal Sites**

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/23/2010	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 04/23/2010	Telephone: 860-424-3705
Date Made Active in Reports: 05/25/2010	Last EDR Contact: 07/06/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SDADB: Site Discovery and Assessment Database

All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 04/23/2010	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 04/23/2010	Telephone: 860-424-3705
Date Made Active in Reports: 05/25/2010	Last EDR Contact: 07/06/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: No Update Planned

## **State and tribal landfill and/or solid waste disposal site lists**

### SWF/LF: List of Landfills/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/02/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 07/28/2015	Telephone: 860-424-3366
Date Made Active in Reports: 08/05/2015	Last EDR Contact: 07/28/2015
Number of Days to Update: 8	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Annually

## **State and tribal leaking storage tank lists**

### LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/24/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 07/29/2015	Telephone: 860-424-3376
Date Made Active in Reports: 08/05/2015	Last EDR Contact: 07/06/2015
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Semi-Annually

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015	Source: EPA Region 7
Date Data Arrived at EDR: 04/28/2015	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

### INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015	Source: EPA Region 8
Date Data Arrived at EDR: 05/05/2015	Telephone: 303-312-6271
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 48	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/08/2015	Telephone: 415-972-3372
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 07/31/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/03/2015	Source: EPA Region 1
Date Data Arrived at EDR: 04/30/2015	Telephone: 617-918-1313
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/31/2015
Number of Days to Update: 53	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 07/21/2015	Source: EPA Region 10
Date Data Arrived at EDR: 07/29/2015	Telephone: 206-553-2857
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 07/28/2015	Source: EPA, Region 5
Date Data Arrived at EDR: 08/07/2015	Telephone: 312-886-7439
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

## INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2015	Source: EPA Region 4
Date Data Arrived at EDR: 08/07/2015	Telephone: 404-562-8677
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Semi-Annually

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/13/2015	Source: EPA Region 6
Date Data Arrived at EDR: 08/03/2015	Telephone: 214-665-6597
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 71	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

### **State and tribal registered storage tank lists**

#### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/10/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Varies

#### UST: Underground Storage Tank Data

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/25/2015  
Date Data Arrived at EDR: 09/01/2015  
Date Made Active in Reports: 09/22/2015  
Number of Days to Update: 21

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3376  
Last EDR Contact: 08/31/2015  
Next Scheduled EDR Contact: 12/14/2015  
Data Release Frequency: Semi-Annually

## AST: Marine Terminals and Tank Information

A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 07/01/2015  
Date Data Arrived at EDR: 08/04/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 28

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3233  
Last EDR Contact: 08/03/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Varies

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/28/2015  
Date Data Arrived at EDR: 08/07/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 67

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Varies

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 07/21/2015  
Date Data Arrived at EDR: 07/29/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 76

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Quarterly

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/03/2015  
Date Data Arrived at EDR: 04/30/2015  
Date Made Active in Reports: 06/22/2015  
Number of Days to Update: 53

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 07/31/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014  
Date Data Arrived at EDR: 11/25/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 65

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Varies

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/14/2014  
Date Data Arrived at EDR: 02/13/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 28

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 07/31/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Quarterly

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/13/2015  
Date Data Arrived at EDR: 08/03/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 71

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Semi-Annually

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2015  
Date Data Arrived at EDR: 08/07/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 67

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Semi-Annually

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/28/2015  
Date Data Arrived at EDR: 08/14/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 60

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Quarterly

## ***State and tribal institutional control / engineering control registries***

### ENG CONTROLS: Engineering Controls Listing

An Engineered Control is a permanent physical structure designed to safely isolate pollutants which would otherwise not comply with the self-implementing remedial options allowed in the Connecticut Remediation Standard Regulations (RSRs). The ECGD includes a description of what is eligible to be considered as an Engineered Control under section 22a-133k-2(f)(2) of the RSRs, a description of the information necessary for the preparation of complete and approvable applications, a step-by-step outline of the review and approval process, and supplemental resources provided in the appendices.

Date of Government Version: 03/05/2013  
Date Data Arrived at EDR: 05/07/2013  
Date Made Active in Reports: 06/19/2013  
Number of Days to Update: 43

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3000  
Last EDR Contact: 08/07/2015  
Next Scheduled EDR Contact: 11/16/2015  
Data Release Frequency: Varies

### AUL: ELUR Sites

Environmental Land Use Restriction sites.

Date of Government Version: 08/18/2015  
Date Data Arrived at EDR: 08/21/2015  
Date Made Active in Reports: 09/22/2015  
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3912  
Last EDR Contact: 08/07/2015  
Next Scheduled EDR Contact: 11/23/2015  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal voluntary cleanup sites***

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014	Source: EPA, Region 1
Date Data Arrived at EDR: 10/01/2014	Telephone: 617-918-1102
Date Made Active in Reports: 11/06/2014	Last EDR Contact: 06/26/2015
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Varies

### VCP: Voluntary Remediation Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 08/18/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/21/2015	Telephone: 860-424-3705
Date Made Active in Reports: 09/22/2015	Last EDR Contact: 08/07/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 11/23/2015
	Data Release Frequency: Varies

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

## ***State and tribal Brownfields sites***

### BROWNFIELDS: Brownfields Inventory

CBRA has identified over 200 brownfield sites eligible for redevelopment. In most cases these are prime properties for commercial or industrial use. CBRA's grants, assistance and financing lower the financial risks and eliminate the legal, regulatory and environmental risks of redevelopment.

Date of Government Version: 06/20/2015	Source: Connecticut Brownfields Redevelopment Authority
Date Data Arrived at EDR: 06/24/2015	Telephone: 860-258-7833
Date Made Active in Reports: 07/21/2015	Last EDR Contact: 06/17/2015
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: Varies

### BROWNFIELDS 2: Brownfields Inventory

A brownfield site is generally defined as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant or contaminant?"

Date of Government Version: 11/30/2004	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 06/26/2009	Telephone: 860-424-3705
Date Made Active in Reports: 07/09/2009	Last EDR Contact: 06/25/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/22/2015  
Date Data Arrived at EDR: 06/24/2015  
Date Made Active in Reports: 09/02/2015  
Number of Days to Update: 70

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 06/24/2015  
Next Scheduled EDR Contact: 10/05/2015  
Data Release Frequency: Semi-Annually

## **Local Lists of Landfill / Solid Waste Disposal Sites**

### SWRCY: Recycling Facilities

A listing of recycling facilities.

Date of Government Version: 04/16/2015  
Date Data Arrived at EDR: 04/23/2015  
Date Made Active in Reports: 04/30/2015  
Number of Days to Update: 7

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3223  
Last EDR Contact: 06/10/2015  
Next Scheduled EDR Contact: 09/28/2015  
Data Release Frequency: Varies

### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 05/01/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Varies

### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: No Update Planned

### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## **Local Lists of Hazardous waste / Contaminated Sites**

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/01/2015  
Date Data Arrived at EDR: 06/02/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 106

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/31/2015  
Next Scheduled EDR Contact: 12/14/2015  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations included in the Spills database.

Date of Government Version: 07/28/2015  
Date Data Arrived at EDR: 07/31/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3361  
Last EDR Contact: 07/06/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Quarterly

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/15/2015  
Date Data Arrived at EDR: 06/02/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 106

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/31/2015  
Next Scheduled EDR Contact: 12/14/2015  
Data Release Frequency: Quarterly

## **Local Land Records**

### CT PROPERTY: Property Transfer Filings

A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 08/18/2015  
Date Data Arrived at EDR: 08/21/2015  
Date Made Active in Reports: 09/22/2015  
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3705  
Last EDR Contact: 08/07/2015  
Next Scheduled EDR Contact: 11/23/2015  
Data Release Frequency: Semi-Annually

### LIENS: Environmental Liens Listing

A listing of environmental liens placed by the Cost Recovery Program.

Date of Government Version: 05/20/2014  
Date Data Arrived at EDR: 05/23/2014  
Date Made Active in Reports: 06/03/2014  
Number of Days to Update: 11

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3120  
Last EDR Contact: 05/18/2015  
Next Scheduled EDR Contact: 08/31/2015  
Data Release Frequency: Varies

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014  
Date Data Arrived at EDR: 03/18/2014  
Date Made Active in Reports: 04/24/2014  
Number of Days to Update: 37

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Varies

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/24/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/02/2015  
Number of Days to Update: 68

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Annually

**SPILLS:** Oil & Chemical Spill Database  
Oil and Chemical Spill Data.

Date of Government Version: 07/28/2015  
Date Data Arrived at EDR: 07/31/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3024  
Last EDR Contact: 07/06/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Semi-Annually

**SPILLS 90:** SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/15/2012  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 02/11/2013  
Number of Days to Update: 39

Source: FirstSearch  
Telephone: N/A  
Last EDR Contact: 01/03/2013  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## **Other Ascertainable Records**

**RCRA NonGen / NLR:** RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Varies

**FUDS:** Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015  
Date Data Arrived at EDR: 07/08/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 09/11/2015  
Next Scheduled EDR Contact: 12/21/2015  
Data Release Frequency: Varies

**DOD:** Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 07/14/2015  
Next Scheduled EDR Contact: 10/28/2015  
Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/14/2015
Number of Days to Update: 339	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 05/21/2015
Number of Days to Update: 54	Next Scheduled EDR Contact: 08/31/2015
	Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/02/2015	Telephone: 202-566-1917
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 08/12/2015
Number of Days to Update: 106	Next Scheduled EDR Contact: 11/30/2015
	Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/04/2015
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/23/2015
	Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 05/14/2015
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/24/2015
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 06/25/2015
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013	Source: EPA
Date Data Arrived at EDR: 02/12/2015	Telephone: 202-566-0250
Date Made Active in Reports: 06/02/2015	Last EDR Contact: 01/29/2015
Number of Days to Update: 110	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Annually

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 07/22/2015
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Annually

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 06/12/2015
Number of Days to Update: 74	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Annually

## RMP: Risk Management Plans

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/13/2015	Telephone: 202-564-8600
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 05/14/2015
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/24/2015
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 07/17/2015
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2015	Telephone: 202-564-5088
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 31	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 05/20/2015  
Next Scheduled EDR Contact: 09/07/2015  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 05/20/2015  
Next Scheduled EDR Contact: 09/07/2015  
Data Release Frequency: Quarterly

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/26/2015  
Date Data Arrived at EDR: 07/10/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 95

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 09/03/2015  
Next Scheduled EDR Contact: 12/21/2015  
Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 07/13/2015  
Next Scheduled EDR Contact: 10/28/2015  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 06/12/2015  
Next Scheduled EDR Contact: 09/21/2015  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 07/31/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/07/2015  
Date Data Arrived at EDR: 07/09/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 69

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 07/09/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 08/04/2015  
Next Scheduled EDR Contact: 11/16/2015  
Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 04/17/2015  
Date Made Active in Reports: 06/02/2015  
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 06/22/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 08/28/2015  
Next Scheduled EDR Contact: 12/07/2015  
Data Release Frequency: Biennially

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 07/14/2015  
Next Scheduled EDR Contact: 10/28/2015  
Data Release Frequency: Semi-Annually

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 05/26/2015  
Next Scheduled EDR Contact: 09/07/2015  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014  
Date Data Arrived at EDR: 11/26/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 64

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 07/07/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust.

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 07/22/2015  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 09/02/2015  
Number of Days to Update: 40

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 06/22/2015  
Next Scheduled EDR Contact: 10/05/2015  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 07/22/2015  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 09/02/2015  
Number of Days to Update: 40

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 06/22/2015  
Next Scheduled EDR Contact: 10/22/2015  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/14/2015	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/03/2015	Telephone: 303-231-5959
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 09/01/2015
Number of Days to Update: 91	Next Scheduled EDR Contact: 12/14/2015
	Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005	Source: USGS
Date Data Arrived at EDR: 02/29/2008	Telephone: 703-648-7709
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 06/05/2015
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Varies

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 06/05/2015
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Varies

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015	Source: EPA
Date Data Arrived at EDR: 02/27/2015	Telephone: (617) 918-1111
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 06/10/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Quarterly

## AIRS: Permitted Air Sources Listing

A listing of permitted air sources in Connecticut.

Date of Government Version: 01/30/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 01/30/2015	Telephone: 860-424-3026
Date Made Active in Reports: 02/03/2015	Last EDR Contact: 07/24/2015
Number of Days to Update: 4	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

## CPCS: Contaminated or Potentially Contaminated Sites

A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/15/2015  
Date Data Arrived at EDR: 08/17/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 15

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3766  
Last EDR Contact: 08/07/2015  
Next Scheduled EDR Contact: 11/23/2015  
Data Release Frequency: Quarterly

## DRYCLEANERS: Drycleaner Facilities

A listing of drycleaner facility locations.

Date of Government Version: 07/18/2008  
Date Data Arrived at EDR: 08/08/2008  
Date Made Active in Reports: 08/27/2008  
Number of Days to Update: 19

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3026  
Last EDR Contact: 06/10/2015  
Next Scheduled EDR Contact: 09/28/2015  
Data Release Frequency: Varies

## ENFORCEMENT: Enforcement Case Listing

The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 07/24/2015  
Date Data Arrived at EDR: 07/27/2015  
Date Made Active in Reports: 08/05/2015  
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3265  
Last EDR Contact: 07/20/2015  
Next Scheduled EDR Contact: 11/02/2015  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

A listing containing RCRA financial assurance information submitted on behalf of the CT DEP's Program Analysis Group of the Waste Engineering and Enforcement Division.

Date of Government Version: 07/23/2014  
Date Data Arrived at EDR: 07/01/2014  
Date Made Active in Reports: 07/09/2014  
Number of Days to Update: 8

Source: Department of Energy & Environmental Protection  
Telephone: 860-418-5930  
Last EDR Contact: 06/17/2015  
Next Scheduled EDR Contact: 10/05/2015  
Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/17/2015  
Date Data Arrived at EDR: 08/07/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 25

Source: Department of Energy & Environmental Protection  
Telephone: 860-418-5930  
Last EDR Contact: 06/17/2015  
Next Scheduled EDR Contact: 10/05/2015  
Data Release Frequency: Varies

## LEAD: Lead Inspection Database

The Lead Poisoning Prevention and Control Program lead inspection database.

Date of Government Version: 03/26/2014  
Date Data Arrived at EDR: 03/27/2014  
Date Made Active in Reports: 05/08/2014  
Number of Days to Update: 42

Source: Department of Public Health  
Telephone: 860-509-7299  
Last EDR Contact: 06/05/2015  
Next Scheduled EDR Contact: 09/21/2015  
Data Release Frequency: Varies

## LWDS: Connecticut Leachate and Wastewater Discharge Sites

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/17/2009  
Date Data Arrived at EDR: 10/21/2009  
Date Made Active in Reports: 10/30/2009  
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection  
Telephone: N/A  
Last EDR Contact: 10/15/2014  
Next Scheduled EDR Contact: 01/26/2015  
Data Release Frequency: Varies

## CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 05/18/2015  
Next Scheduled EDR Contact: 08/31/2015  
Data Release Frequency: No Update Planned

## NPDES: Wastewater Permit Listing

A listing of permits issued by the DEP.

Date of Government Version: 08/07/2015  
Date Data Arrived at EDR: 08/07/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 25

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3832  
Last EDR Contact: 08/07/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Varies

## SEH: List of Significant Environmental Hazards Report to DEEP

The Significant Environmental Hazard Statute is intended to identify and abate short-term risks associated with specific environmental conditions identified in the statute. After abatement of short-term risks (meaning abatement of the significant environmental hazard condition), there may still be potential long-term risks associated with the release. However, a significant environmental hazard can be considered abated under the statute even though potential long-term risks may not have been addressed.

Date of Government Version: 06/30/2015  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 08/05/2015  
Number of Days to Update: 12

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3766  
Last EDR Contact: 07/20/2015  
Next Scheduled EDR Contact: 11/02/2015  
Data Release Frequency: Varies

## EDR HIGH RISK HISTORICAL RECORDS

### ***EDR Exclusive Records***

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Energy & Environmental Protection formerly know as the DEP which changes in July 2011 in Connecticut.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/02/2014  
Number of Days to Update: 185

Source: Department of Energy & Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Energy & Environmental Protection formerly know as the DEP which changes in July 2011 in Connecticut.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/02/2014  
Number of Days to Update: 185

Source: Department of Energy & Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NJ MANIFEST: Manifest Information  
Hazardous waste manifest information.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 07/17/2015  
Date Made Active in Reports: 08/12/2015  
Number of Days to Update: 26

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 07/13/2015  
Next Scheduled EDR Contact: 10/28/2015  
Data Release Frequency: Annually

## NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2015  
Date Data Arrived at EDR: 08/06/2015  
Date Made Active in Reports: 08/24/2015  
Number of Days to Update: 18

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/06/2015  
Next Scheduled EDR Contact: 11/16/2015  
Data Release Frequency: Annually

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 08/18/2015  
Number of Days to Update: 25

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 07/20/2015  
Next Scheduled EDR Contact: 11/02/2015  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 06/19/2015  
Date Made Active in Reports: 07/15/2015  
Number of Days to Update: 26

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 05/26/2015  
Next Scheduled EDR Contact: 09/07/2015  
Data Release Frequency: Annually

## VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 03/26/2015  
Date Data Arrived at EDR: 06/03/2015  
Date Made Active in Reports: 07/20/2015  
Number of Days to Update: 47

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 07/20/2015  
Next Scheduled EDR Contact: 11/02/2015  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 03/19/2015  
Date Made Active in Reports: 04/07/2015  
Number of Days to Update: 19

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/11/2015  
Next Scheduled EDR Contact: 09/28/2015  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation  
Telephone: 281-546-1505

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

## Electric Power Transmission Line Data

Source: PennWell Corporation  
Telephone: 800-823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## Daycare Centers: Licensed Child Care Facilities

Source: Department of Public Health

Telephone: 860-509-8045

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

## State Wetlands Data: Tidal Wetlands

Source: Department of Energy & Environmental Protection

Telephone: 860-424-4054

## Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

NABOZNY SOLAR SITE  
101 WOODS HILL ROAD  
POMFRET, CT 06259

### TARGET PROPERTY COORDINATES

Latitude (North):	41.8309 - 41° 49' 51.24"
Longitude (West):	71.9209 - 71° 55' 15.24"
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	257440.2
UTM Y (Meters):	4634913.5
Elevation:	364 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	5642109 DANIELSON, CT
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

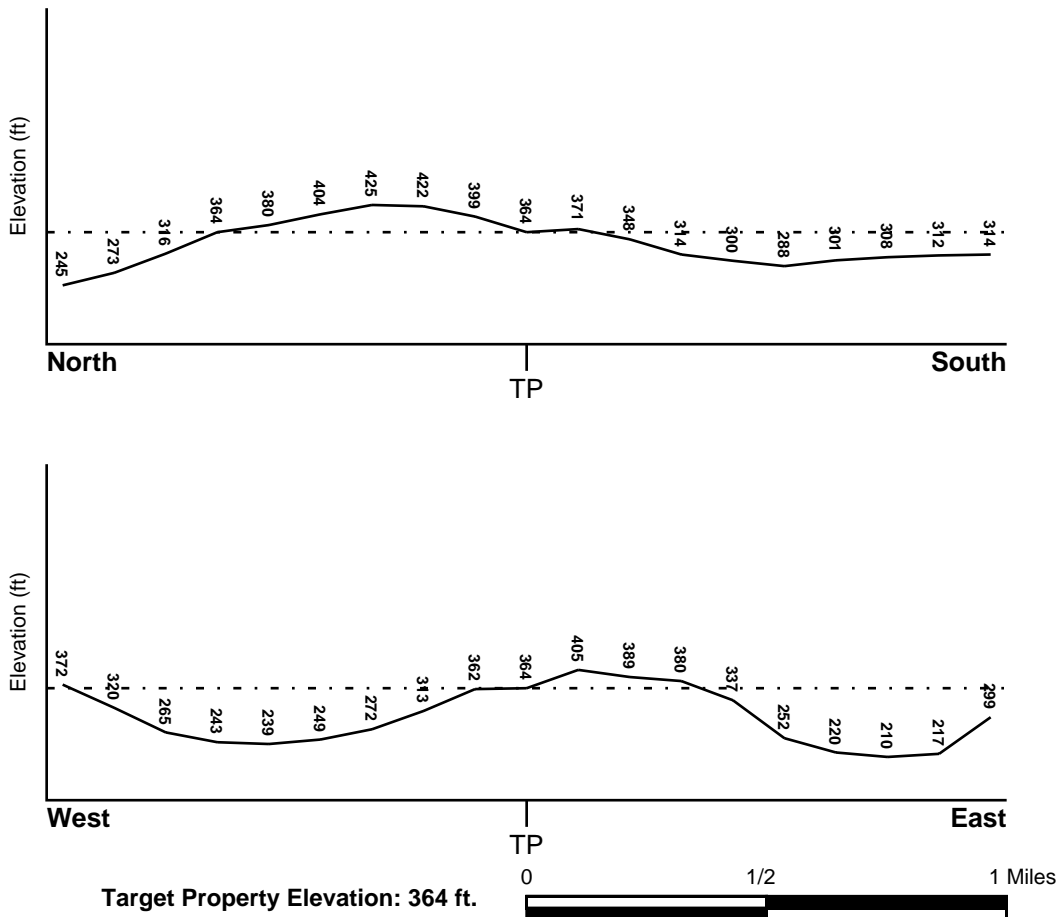
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## **HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Target Property County</u>	<u>FEMA Flood</u>
WINDHAM, CT	<u>Electronic Data</u>
	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic</u>
DANIELSON	<u>Data Coverage</u>
	YES - refer to the Overview Map and Detail Map

## **HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### ***Site-Specific Hydrogeological Data\*:***

Search Radius:	1.25 miles
Status:	Not found

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u>	<u>GENERAL DIRECTION</u>
<u>FROM TP</u>	<u>GROUNDWATER FLOW</u>	
Not Reported		



## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

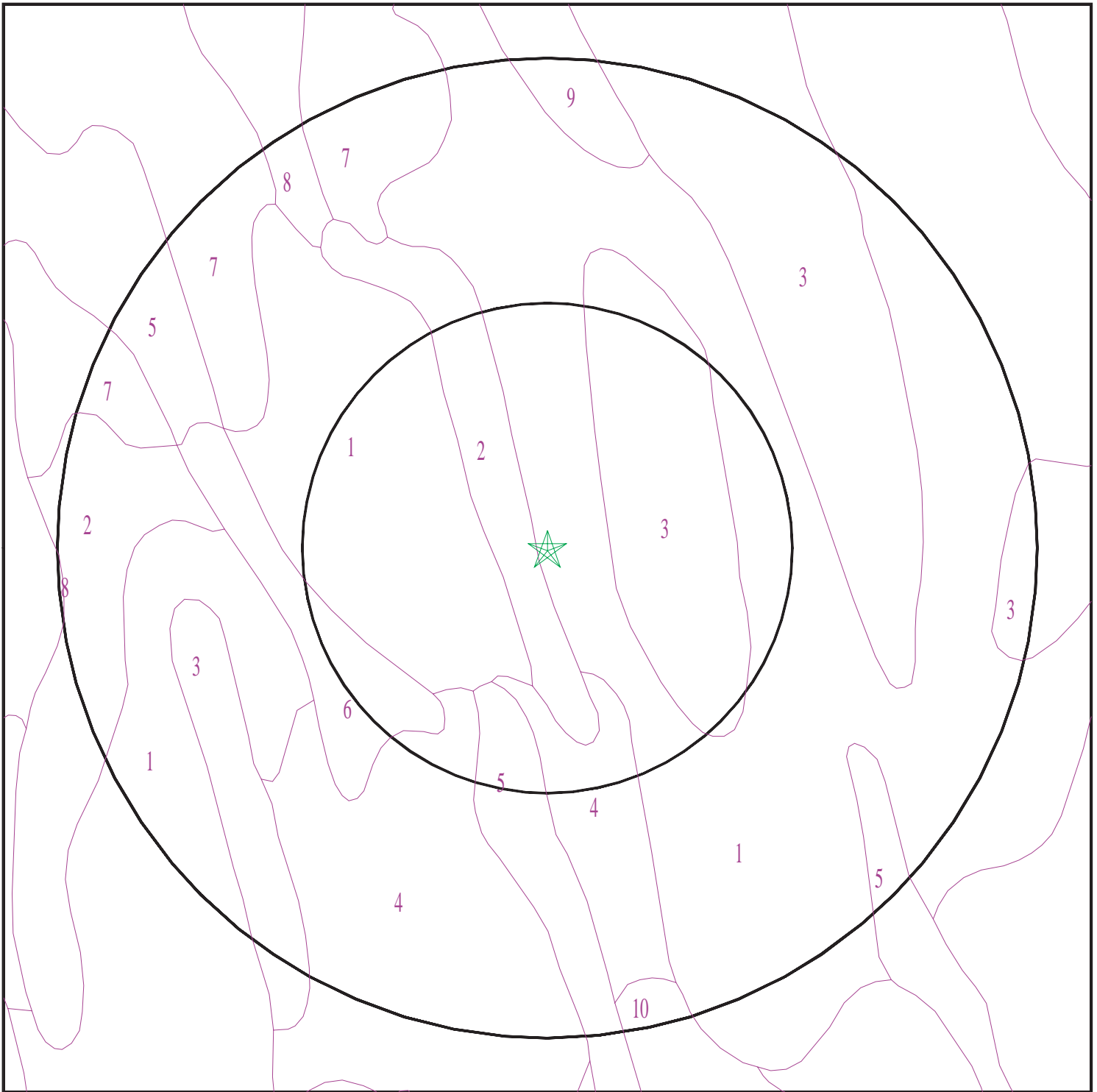
Era:	Paleozoic
System:	Ordovician
Series:	Ordovician volcanic rocks
Code:	Ov <i>(decoded above as Era, System &amp; Series)</i>

#### **GEOLOGIC AGE IDENTIFICATION**

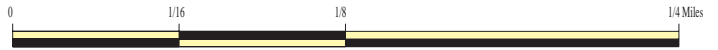
Category: Volcanic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 4441785.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Nabozny Solar Site  
ADDRESS: 101 Woods Hill Road  
Pomfret CT 06259  
LAT/LONG: 41.8309 / 71.9209

CLIENT: Tighe & Bond  
CONTACT: Samantha Avis  
INQUIRY #: 4441785.2s  
DATE: October 19, 2015 7:16 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	29 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
5	29 inches	42 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5
6	42 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

### Soil Map ID: 2

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	7 inches	14 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	14 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.41 Min: 0.01	Max: 6 Min: 4.5

### Soil Map ID: 3

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	29 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
5	29 inches	42 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5
6	42 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

**Soil Map ID: 4**

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	29 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
5	29 inches	42 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5
6	42 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 5**

Soil Component Name: Ridgebury

Soil Surface Texture: slightly decomposed plant material

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	1 inches	slightly decomposed plant material	Not reported	Not reported	Max: 42 Min: 4	Max: Min:
2	1 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	5 inches	14 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
4	14 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
5	20 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 6**

Soil Component Name: Ridgebury

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 8 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	5 inches	14 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	14 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
4	20 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 7**

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	29 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
5	29 inches	42 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
6	42 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

### Soil Map ID: 8

Soil Component Name: Canton

Soil Surface Texture: moderately decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	1 inches	moderately decomposed plant material	A-8	Highly organic soils, Peat.	Max: 141 Min: 42	Max: 5.5 Min: 3.5
2	1 inches	3 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	3 inches	14 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
4	14 inches	24 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
5	24 inches	29 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
6	29 inches	60 inches	very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5

**Soil Map ID: 9**

Soil Component Name: Canton

Soil Surface Texture: moderately decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	1 inches	moderately decomposed plant material	A-8	Highly organic soils, Peat.	Max: 141 Min: 42	Max: 5.5 Min: 3.5
2	1 inches	3 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
3	3 inches	14 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
4	14 inches	24 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
5	24 inches	29 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
6	29 inches	60 inches	very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5

**Soil Map ID: 10**

Soil Component Name: Charlton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 74 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	3 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
4	18 inches	27 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
5	27 inches	64 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	USGS40000229119	1/2 - 1 Mile NE

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

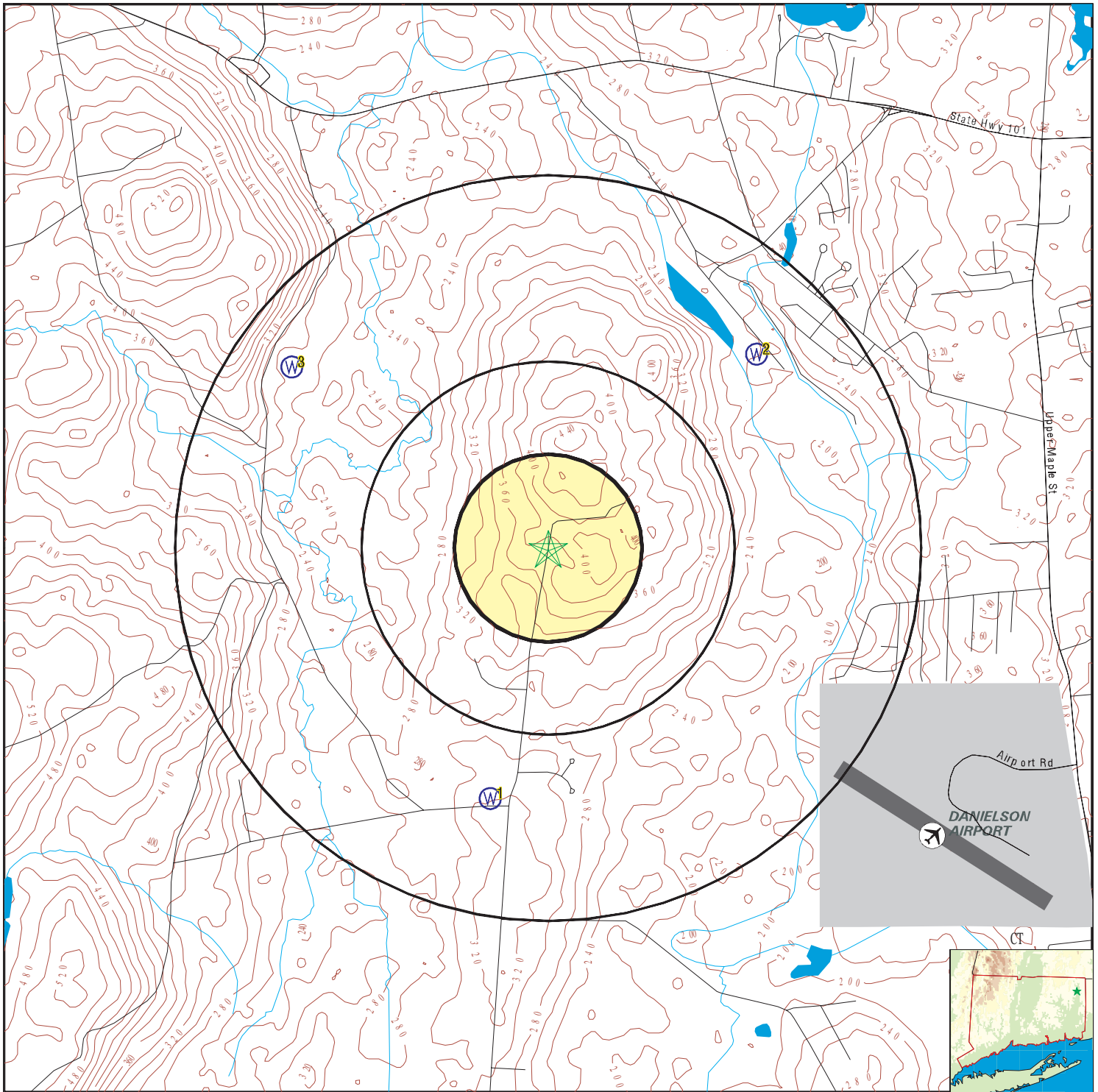
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CTC000000000280	1/2 - 1 Mile SSW
3	CTNC000000000641	1/2 - 1 Mile NW

# PHYSICAL SETTING SOURCE MAP - 4441785.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- EPA Designated Sole Src. Aq.

SITE NAME: Nabozny Solar Site  
 ADDRESS: 101 Woods Hill Road  
 Pomfret CT 06259  
 LAT/LONG: 41.8309 / 71.9209

CLIENT: Tighe & Bond  
 CONTACT: Samantha Avis  
 INQUIRY #: 4441785.2s  
 DATE: October 19, 2015 7:16 pm



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**1**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**CT WELLS      CTC00000000280**

CT Community Well

Well ID:	298	Well Name:	Well 1
Supply System ID:	19005	Supply System Name:	BROOKLYN MANOR
Source Status:	Active	Type:	Drilled
Groundwater Aquifer Type:	Bedrock	GIS Date/Method:	1984 Tablet Digitize
Depth:	280 Feet	Depth to Bedrock:	0 Feet
Well Diameter:	0	Casing Diameter:	0
Pump Capacity:	10	Safe Yield:	.01099

**2**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000229119**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415018071543801		
Monloc name:	CT-KI 10		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01100001	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8384316
Longitude:	-71.9100725	Sourcemap scale:	Not Reported
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	201
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	New England crystalline-rock aquifers		
Formation type:	Non-Carbonate Crystalline Bedrock		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	88
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**3**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**CT WELLS      CTNC00000000641**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### CT Non-Community Well

Well ID: 558  
Supply System ID: 1120332  
Source Status: Active  
Groundwater Aquifer Type: Bedrock  
Depth: 0 Feet  
Well Diameter: 0  
Pump Capacity: 0  
New ID: CT1120332

Well Name: Well  
Supply System Name: The Steak-umm Company, L.L.C.  
Type: Drilled  
GIS Date/Method: 1999 Screen Digitize  
Depth to Bedrock: 0 Feet  
Casing Diameter: 0  
Safe Yield: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CT Radon

### Radon Test Results

City	# Sites	< 4 Pci/L	4 < 10 Pci/L	10 < 20 Pci/L	20 < 50 Pci/L	50 < 100 Pci/L	> 100 Pci/L
Sterling	72	52 (72.2)	13 (18)	4 (5.6)	4 (4.2)	0 (0)	0 (0)
Thompson	2	0 (0)	0 (0)	2 (100)	0 (0)	0 (0)	0 (0)
Willimantic	2	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Windham	82	67 (81.7)	12 (14.6)	3 (3.7)	0 (0)	0 (0)	0 (0)
Woodstock	20	15 (75)	5 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Canterbury	8	4 (50)	1 (12.5)	2 (25)	1 (12.5)	0 (0)	0 (0)
Abington	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Brooklyn	5	3 (60)	2 (40)	0 (0)	0 (0)	0 (0)	0 (0)
Chaplin	97	78 (80.4)	18 (1)	1 (18.6)	0 (0)	0 (0)	0 (0)
Danielson	5	3(60)	1 (20)	1 (20)	0 (0)	0 (0)	0 (0)
Dayville	7	5 (71.4)	2 (28.6)	0 (0)	0 (0)	0 (0)	0 (0)
Hampton	2	1 (50)	0 (0)	0 (0)	1 (50)	0 (0)	0 (0)
Lisbon	3	1 (33.3)	2 (66.7)	0 (0)	0 (0)	0 (0)	0 (0)
Moosup	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
North Windham	6	1 (16.7)	4 (66.7)	1 (16.7)	0 (0)	0 (0)	0 (0)
Pomfret	85	76 (89.4)	6 (7.1)	2 (2.4)	3 (3.5)	0 (0)	0 (0)
Pomfret Center	12	4 (33.3)	7 (58.3)	1 (8.3)	0 (0)	0 (0)	0 (0)
Putnam	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Scotland	22	12 (54.5)	7 (9.1)	1 (4.5)	2 (9.1)	0 (0)	0 (0)
South Windham	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Federal EPA Radon Zone for WINDHAM County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 06259

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.300 pCi/L	50%	50%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Tidal Wetlands

Source: Department of Energy & Environmental Protection

Telephone: 860-424-4054

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Connecticut Leachate and Wastewater Discharge Sites

Source: Department of Environmental Protection

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

#### EPA-Approved Sole Source Aquifers in Connecticut

Source: EPA

Sole source aquifers are defined as an aquifer designated as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for the area and for which there are no reasonable alternative sources should the aquifer become contaminated.

#### Community and Non-Community Water System Wells

Source: Department of Public Health, Water Supplies Section

Telephone: 860-509-7333

Active, emergency and inactive wells used for potable purposes that are owned and operated by active community and non-community water systems in Connecticut.

## OTHER STATE DATABASE INFORMATION

### RADON

#### State Database: CT Radon

Source: Department of Public Health

Telephone: 860-509-7367

Radon Statistical Summary

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### STREET AND ADDRESS INFORMATION

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.5  
October 20, 2015

# The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

### **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1993 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 1320 feet of the target property.

A summary of the information obtained is provided in the text of this report.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	-	-	-	-
2008	Cole Information Services	-	-	-	-
2003	Cole Information Services	-	-	-	-
1998	Cole Information Services	-	-	-	-
1993	Cole Information Services	-	-	-	-

## FINDINGS

### TARGET PROPERTY INFORMATION

#### ADDRESS

101 Woods Hill Road  
Pomfret, CT 06259

#### FINDINGS DETAIL

Target Property research detail.

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

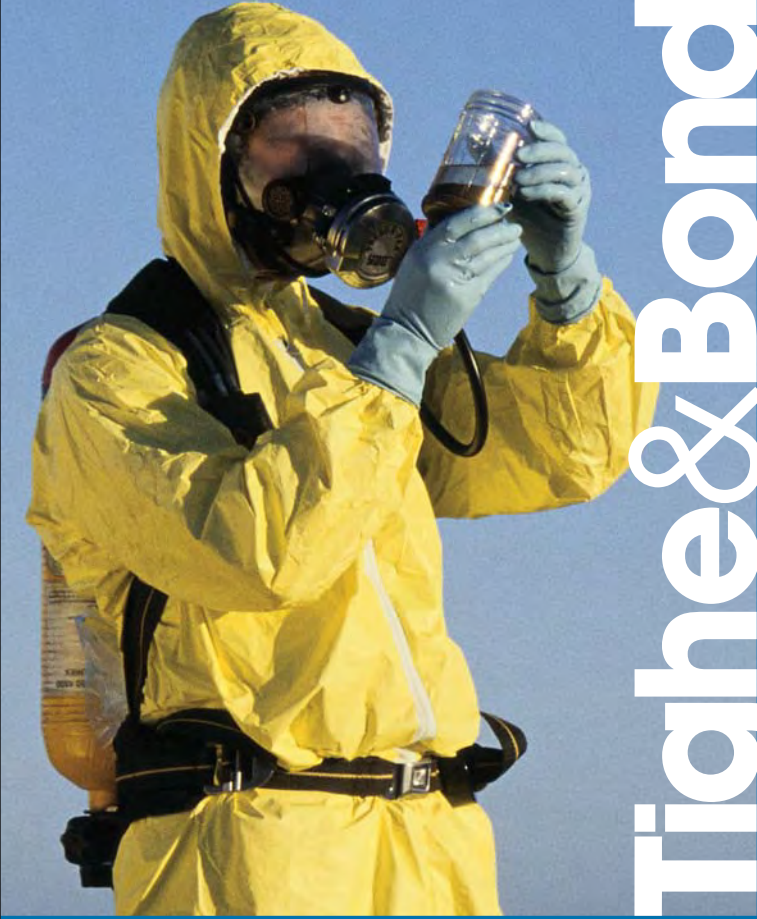
#### Address Researched

101 Woods Hill Road

#### Address Not Identified in Research Source

2013, 2008, 2003, 1998, 1993





# Tighe & Bond



**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.9

October 19, 2015

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

## **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

**Date EDR Searched Historical Sources:**

Aerial Photography October 19, 2015

**Target Property:**

101 Woods Hill Road

Pomfret, CT 06259

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1941	Aerial Photograph. Scale: 1"=750'	Flight Date: November 12, 1941	EDR
1951	Aerial Photograph. Scale: 1"=500'	Flight Date: October 13, 1951	EDR
1951	Aerial Photograph. Scale: 1"=500'	Flight Date: October 13, 1951	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1969	Aerial Photograph. Scale: 1"=500'	Flight Date: June 10, 1969	EDR
1969	Aerial Photograph. Scale: 1"=500'	Flight Date: June 10, 1969	EDR
1969	Aerial Photograph. Scale: 1"=500'	Flight Date: June 10, 1969	EDR
1980	Aerial Photograph. Scale: 1"=1000'	Flight Date: March 19, 1980	EDR
1986	Aerial Photograph. Scale: 1"=500'	Flight Date: March 23, 1986	EDR
1986	Aerial Photograph. Scale: 1"=500'	Flight Date: March 23, 1986	EDR
1986	Aerial Photograph. Scale: 1"=500'	Flight Date: March 23, 1986	EDR
1990	Aerial Photograph. Scale: 1"=500'	Flight Date: May 02, 1990	EDR
1990	Aerial Photograph. Scale: 1"=500'	Flight Date: May 02, 1990	EDR
1990	Aerial Photograph. Scale: 1"=500'	Flight Date: May 02, 1990	EDR
1991	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 12, 1991	USGS/DOQQ



<i><b>Year</b></i>	<i><b>Scale</b></i>	<i><b>Details</b></i>	<i><b>Source</b></i>
1991	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 12, 1991	USGS/DOQQ
1991	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 12, 1991	USGS/DOQQ
1991	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 12, 1991	USGS/DOQQ
1996	Aerial Photograph. Scale: 1"=500'	Flight Date: April 15, 1996	EDR
1996	Aerial Photograph. Scale: 1"=500'	Flight Date: April 15, 1996	EDR
1996	Aerial Photograph. Scale: 1"=500'	Flight Date: April 15, 1996	EDR
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

<i><b>Year</b></i>	<i><b>Scale</b></i>	<i><b>Details</b></i>	<i><b>Source</b></i>
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP



**INQUIRY #:** 4441785.9

**YEAR:** 1941

| = 750'







INQUIRY #: 4441785.9

YEAR: 1951

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 1951

| = 500'







INQUIRY #: 4441785.9

YEAR: 1963

| = 250'







INQUIRY #: 4441785.9

YEAR: 1963

| = 250'







INQUIRY #: 4441785.9

YEAR: 1963

| = 250'







60

INQUIRY #: 4441785.9

YEAR: 1963

| = 250'







INQUIRY #: 4441785.9

YEAR: 1963

| = 250'







INQUIRY #: 4441785.9

YEAR: 1969

| = 500'



EDR





**INQUIRY #:** 4441785.9

**YEAR:** 1969

| = 500'







INQUIRY #: 4441785.9

YEAR: 1969

| = 500'





**INQUIRY #:** 4441785.9

**YEAR:** 1980

| = 1000'







INQUIRY #: 4441785.9

YEAR: 1986

| = 500'







INQUIRY #: 4441785.9

YEAR: 1986

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 1986

| = 500'







INQUIRY #: 4441785.9

YEAR: 1990

| = 500'



EDR





**INQUIRY #:** 4441785.9

**YEAR:** 1990

| = 500'







INQUIRY #: 4441785.9

YEAR: 1990

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 1991

 = 500'







INQUIRY #: 4441785.9

YEAR: 1991

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 1991

| = 500'







INQUIRY #: 4441785.9

YEAR: 1991

| = 500'





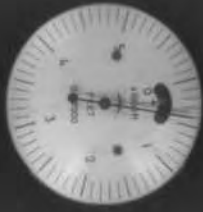


**INQUIRY #:** 4441785.9

**YEAR:** 1996

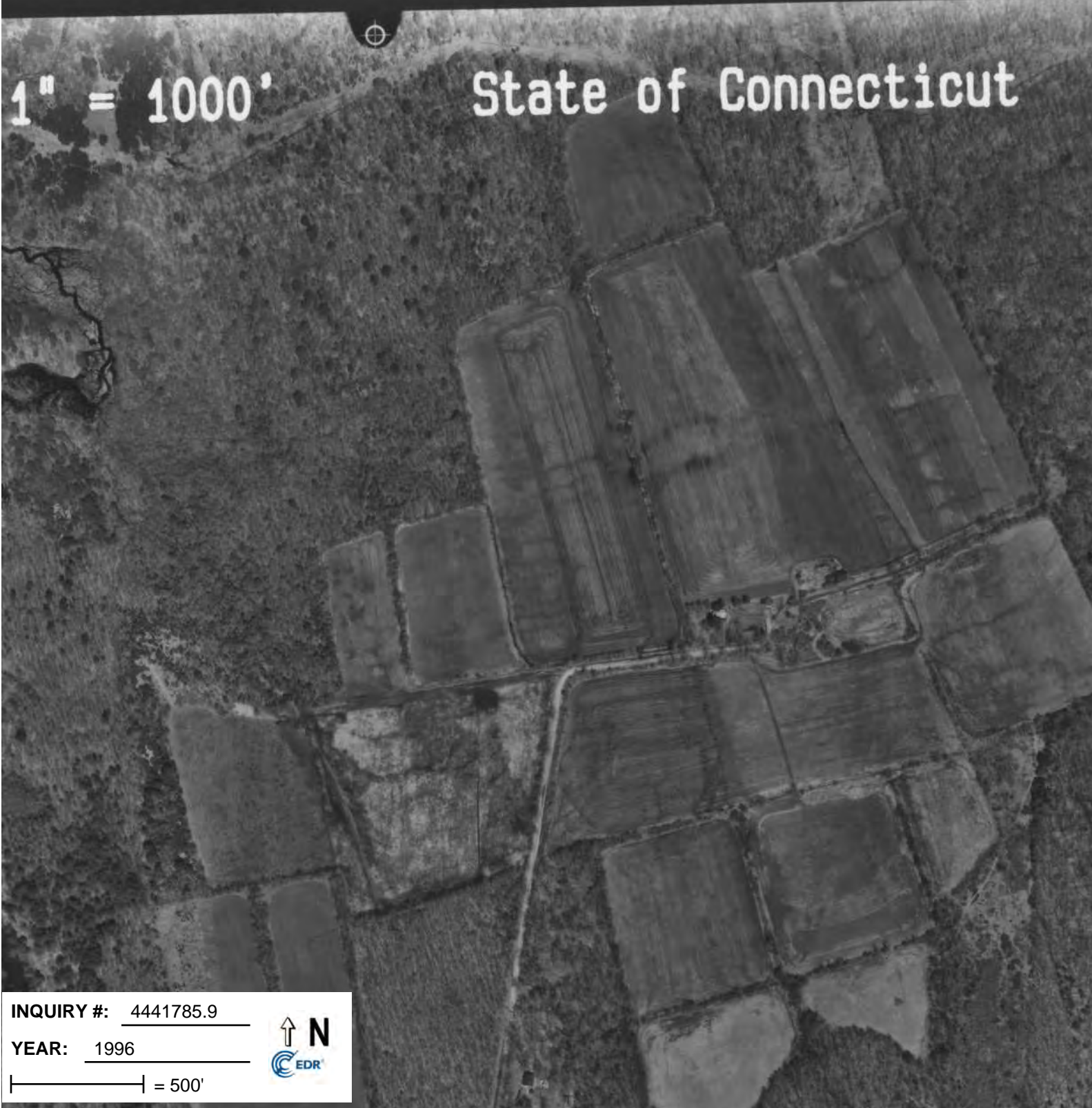
| = 500'





1" = 1000'

# State of Connecticut



INQUIRY #: 4441785.9

YEAR: 1996

| = 500'





1" = 1000'

State of



INQUIRY #: 4441785.9

YEAR: 1996

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2005

| = 500'







INQUIRY #: 4441785.9

YEAR: 2005

 = 500'







INQUIRY #: 4441785.9

YEAR: 2005

| = 500'







INQUIRY #: 4441785.9

YEAR: 2005

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2006

| = 500'







INQUIRY #: 4441785.9

YEAR: 2006

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2006

 = 500'







INQUIRY #: 4441785.9

YEAR: 2006

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2008

| = 500'







INQUIRY #: 4441785.9

YEAR: 2008

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2008

| = 500'







INQUIRY #: 4441785.9

YEAR: 2008

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2010

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2010

| = 500'







INQUIRY #: 4441785.9

YEAR: 2010

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2010

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2012

| = 500'







INQUIRY #: 4441785.9

YEAR: 2012

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2012

| = 500'







INQUIRY #: 4441785.9

YEAR: 2012

| = 500'







**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.4

October 19, 2015

# EDR Historical Topographic Map Report



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

## **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.


Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



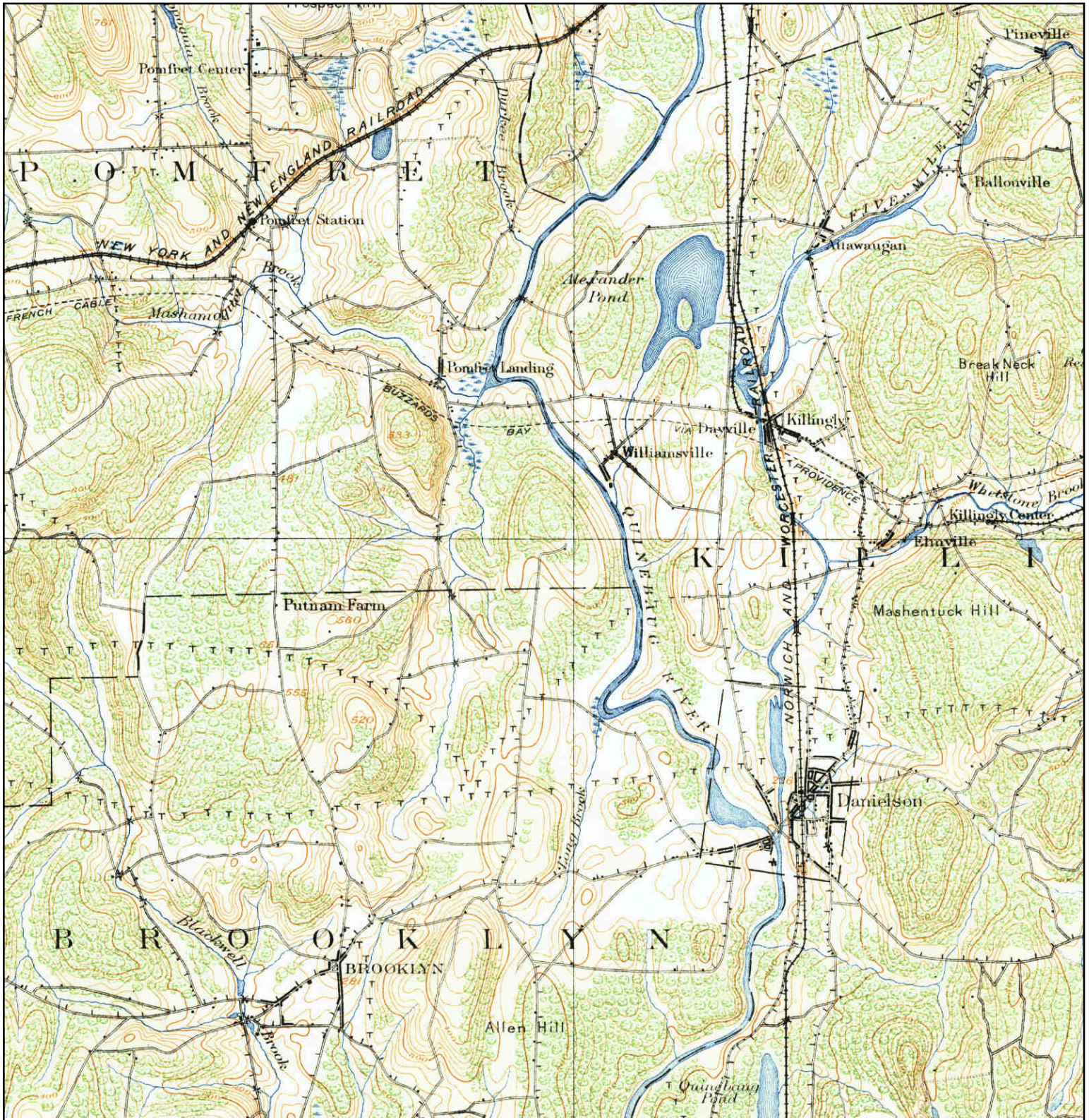
# Historical Topographic Map



<p>N</p> 	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Nabozny Solar Site	<b>CLIENT:</b> Tighe & Bond
	NAME: PUTNAM	ADDRESS: 101 Woods Hill Road	CONTACT: Samantha Avis
	MAP YEAR: 1893	Pomfret, CT 06259	INQUIRY#: 4441785.4
	SERIES: 15	LAT/LONG: 41.8309 / -71.9209	RESEARCH DATE: 10/19/2015
	SCALE: 1:62500		



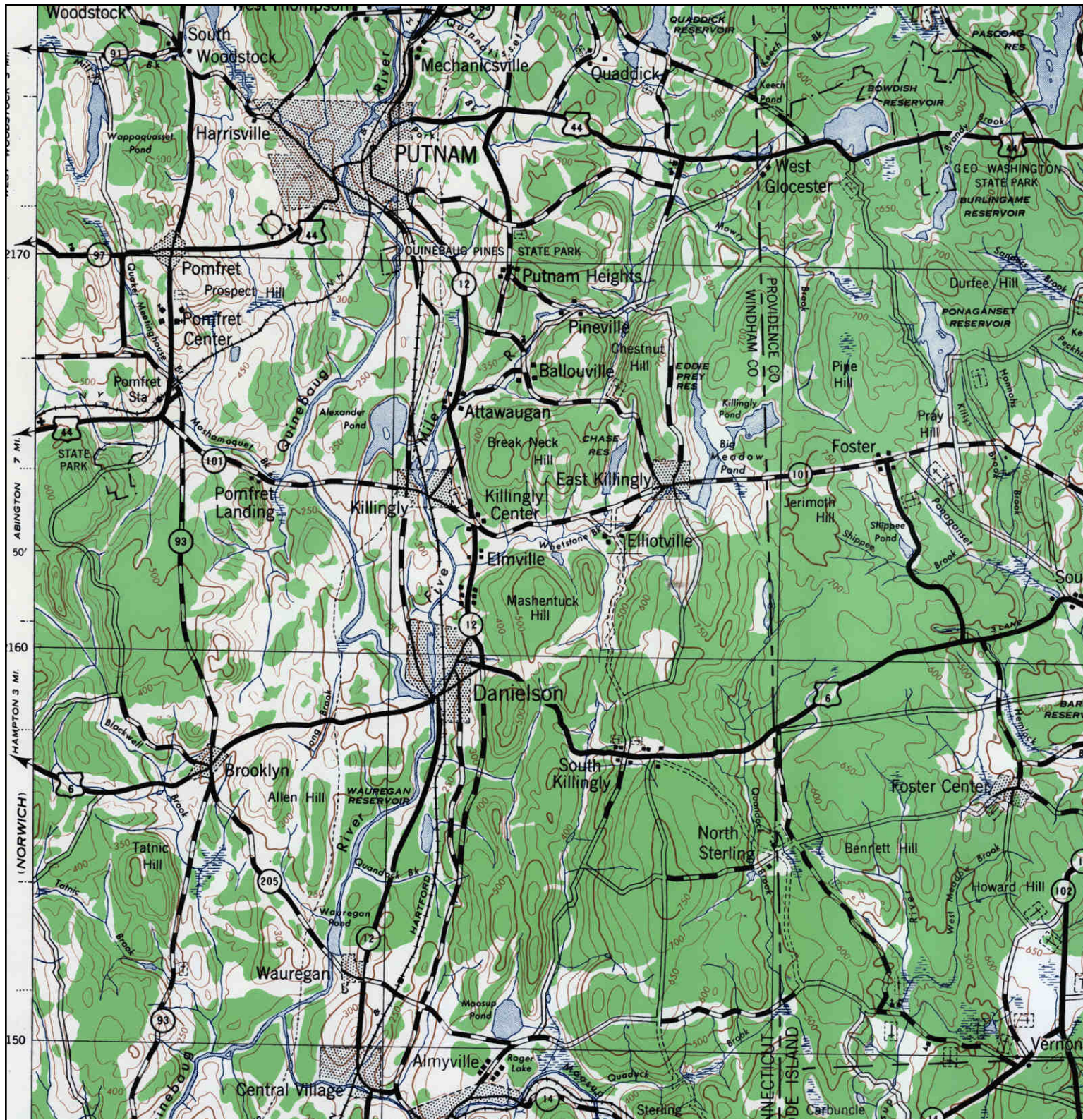
# Historical Topographic Map




<p>N ↑</p>	<p><b>TARGET QUAD</b>                  NAME: PUTNAM                  MAP YEAR: 1915</p>	<p><b>SITE NAME:</b> Nabozny Solar Site  <b>ADDRESS:</b> 101 Woods Hill Road                  Pomfret, CT 06259  <b>LAT/LONG:</b> 41.8309 / -71.9209</p>	<p><b>CLIENT:</b> Tighe &amp; Bond  <b>CONTACT:</b> Samantha Avis  <b>INQUIRY#:</b> 4441785.4  <b>RESEARCH DATE:</b> 10/19/2015</p>
	<p><b>SERIES:</b> 15  <b>SCALE:</b> 1:62500</p>		



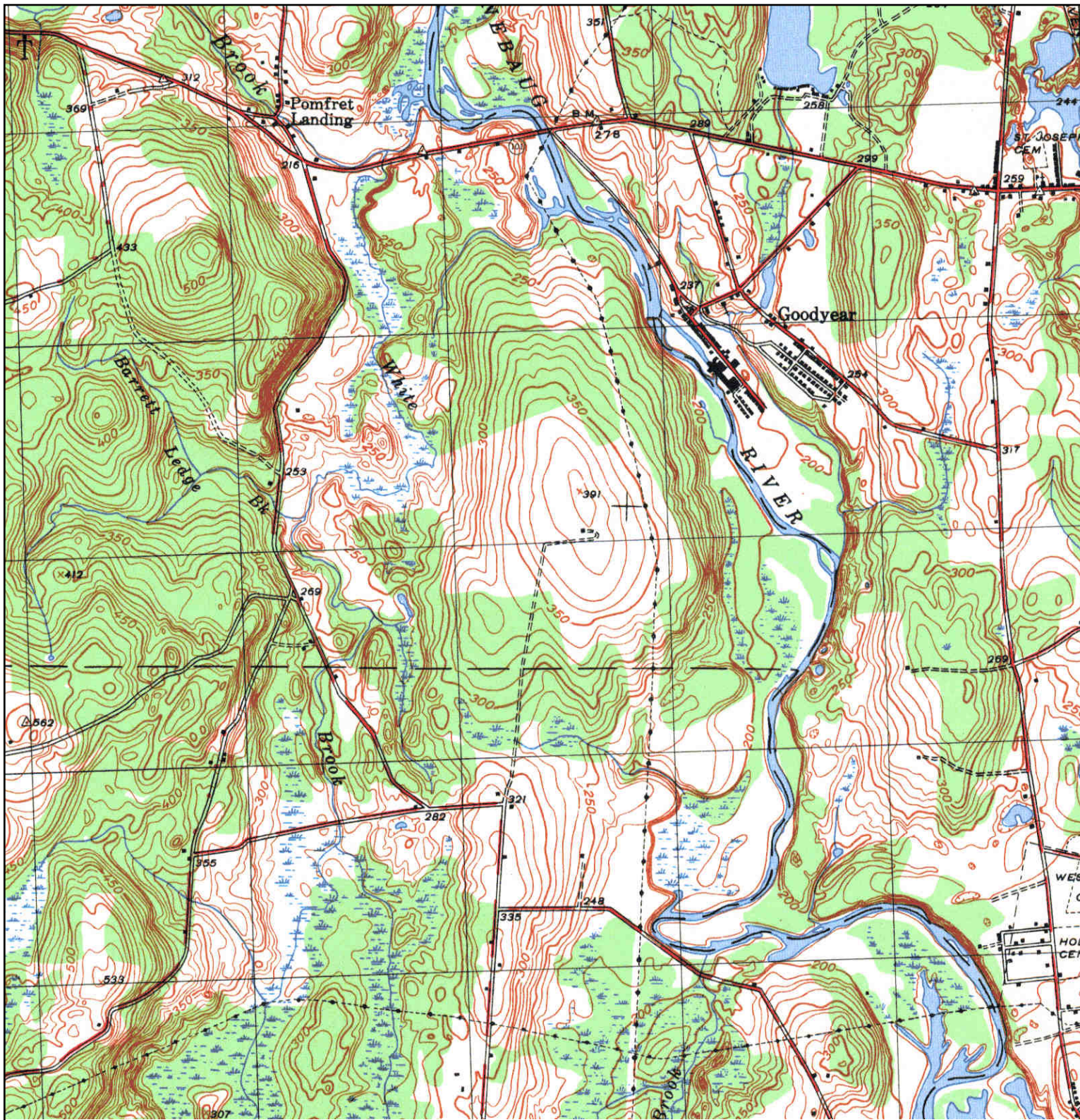
# Historical Topographic Map



<p>N</p> 	<p><b>TARGET QUAD</b>                  NAME: PUTNAM                  MAP YEAR: 1943</p>	<p><b>SITE NAME:</b> Nabozny Solar Site  <b>ADDRESS:</b> 101 Woods Hill Road                  Pomfret, CT 06259  <b>LAT/LONG:</b> 41.8309 / -71.9209</p>	<p><b>CLIENT:</b> Tighe &amp; Bond  <b>CONTACT:</b> Samantha Avis  <b>INQUIRY#:</b> 4441785.4  <b>RESEARCH DATE:</b> 10/19/2015</p>
	<p><b>SERIES:</b> 30  <b>SCALE:</b> 1:125000</p>		



# Historical Topographic Map




<p>N ↑</p>	<p><b>TARGET QUAD</b>                  NAME: DANIELSON                  MAP YEAR: 1947</p>	<p><b>SITE NAME:</b> Nabozny Solar Site  <b>ADDRESS:</b> 101 Woods Hill Road                  Pomfret, CT 06259  <b>LAT/LONG:</b> 41.8309 / -71.9209</p>	<p><b>CLIENT:</b> Tighe &amp; Bond  <b>CONTACT:</b> Samantha Avis  <b>INQUIRY#:</b> 4441785.4  <b>RESEARCH DATE:</b> 10/19/2015</p>
	<p><b>SERIES:</b> 7.5  <b>SCALE:</b> 1:25000</p>		



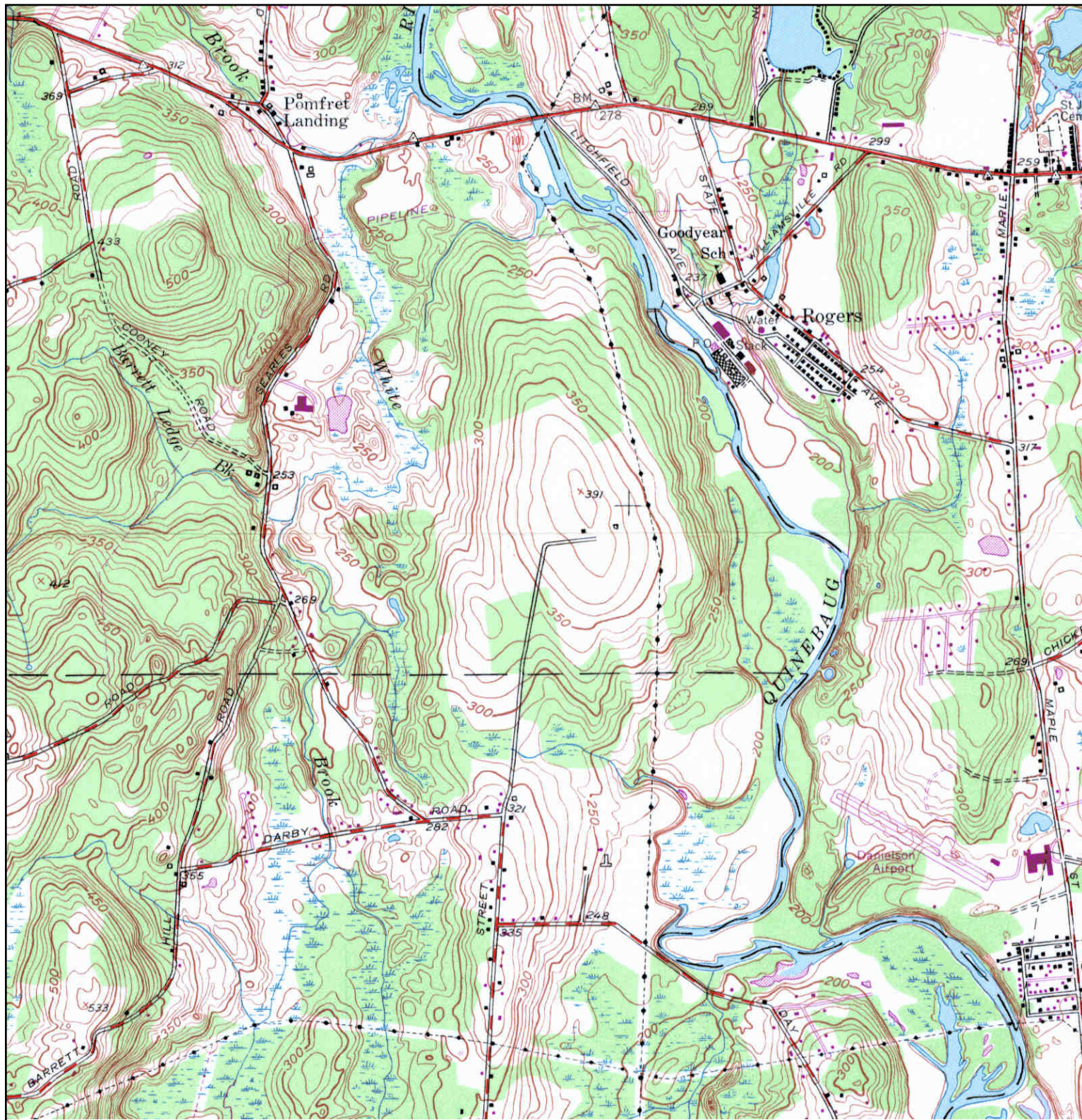
# Historical Topographic Map



	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Nabozny Solar Site	<b>CLIENT:</b> Tighe & Bond
	<b>NAME:</b> DANIELSON	<b>ADDRESS:</b> 101 Woods Hill Road	<b>CONTACT:</b> Samantha Avis
	<b>MAP YEAR:</b> 1955	<b>POMFRET, CT 06259</b>	<b>INQUIRY#:</b> 4441785.4
	<b>SERIES:</b> 7.5	<b>LAT/LONG:</b> 41.8309 / -71.9209	<b>RESEARCH DATE:</b> 10/19/2015
	<b>SCALE:</b> 1:24000		



# Historical Topographic Map



<p>N ↑</p>	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Nabozny Solar Site	<b>CLIENT:</b> Tighe & Bond
	NAME: DANIELSON	<b>ADDRESS:</b> 101 Woods Hill Road	<b>CONTACT:</b> Samantha Avis
	MAP YEAR: 1970	Pomfret, CT 06259	<b>INQUIRY#:</b> 4441785.4
	PHOTOREVISED FROM :1955	<b>LAT/LONG:</b> 41.8309 / -71.9209	<b>RESEARCH DATE:</b> 10/19/2015
	SERIES: 7.5		
	SCALE: 1:24000		





**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.3

October 19, 2015

# Certified Sanborn® Map Report



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# Certified Sanborn® Map Report

10/19/15

**Site Name:**

Nabozny Solar Site  
101 Woods Hill Road  
Pomfret, CT 06259

**Client Name:**

Tighe & Bond  
213 Court Street  
Middletown, CT 06457



EDR Inquiry # 4441785.3

Contact: Samantha Avis

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Tighe & Bond were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Site Name:** Nabozny Solar Site  
**Address:** 101 Woods Hill Road  
**City, State, Zip:** Pomfret, CT 06259  
**Cross Street:**  
**P.O. #** S1992  
**Project:** Nabozny Solar Site  
**Certification #** D6E4-4E66-A5F1



Sanborn® Library search results  
Certification # D6E4-4E66-A5F1

## UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

## Limited Permission To Make Copies

Tighe & Bond (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

### Disclaimer - Copyright and Trademark notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



R-02184-04  
January 26, 2016

Daniel Boyd  
Sr. Director, Development  
RES America Developments, Inc.  
11101 W. 120<sup>th</sup> Avenue, Suite 400  
Broomfield, CO 80021

Tom Swank, Chairman  
SunEast Power, LLC  
142 Ferry Road, Suite 12  
Old Saybrook, CT 06475

Re: **Phase I Environmental Site Assessment  
Woods Hill Road Solar Project  
101 Woods Hill Road  
Pomfret, Connecticut**

Dear Mr. Boyd and Mr. Swank:

Please find enclosed the Phase I Environmental Site Assessment (ESA) report for the property located at 101 Woods Hill Road in Pomfret, Connecticut.

We appreciate the opportunity to provide our services. If you have any questions or comments, please call Jim Olsen at (860) 704-4761.

Very truly yours,

**TIGHE & BOND, INC.**

Nicholas A. Granata, LEP  
Senior Environmental Scientist

James T Olsen, LEP  
Vice President





**Tighe&Bond**

**101 Woods Hill Road  
Pomfret, Connecticut**

## **Phase I Environmental Site Assessment**

Prepared For:

RES America Developments, Inc.  
SunEast Power, LLC

January 2016

**Cover Letter**

**Section 1 Introduction**

1.1 Purpose ..... 1-1  
1.2 Scope of Work ..... 1-1

**Section 2 Site Description**

2.1 Location and Legal Description ..... 2-1  
2.2 Site and Vicinity Characteristics ..... 2-1  
2.3 Current Use ..... 2-1  
2.4 Site Improvements ..... 2-1  
2.5 Surrounding Area Uses ..... 2-1

**Section 3 User Provided Information**

3.1 Land Records ..... 3-1  
3.2 Specialized Knowledge ..... 3-1  
3.3 Common Information ..... 3-1  
3.4 Value Reduction of Environmental Issues ..... 3-1  
3.5 Owner and Occupant Information ..... 3-1

**Section 4 Previous Environmental Reports**

**Section 5 Records Review**

5.1 Standard Environmental Records Search ..... 5-1  
5.1.1 Subject Site ..... 5-2  
5.1.2 Surrounding Properties ..... 5-2  
5.1.3 Orphan Site Summary ..... 5-3  
5.2 Additional Environmental Records Sources ..... 5-3  
5.3 Physical Setting ..... 5-3  
5.3.1 Soil Information ..... 5-3  
5.3.2 Geology ..... 5-4  
5.3.3 Flood Plain, Wetlands, and Aquifer Protection Area Information .. 5-5  
5.3.4 Groundwater Classification and Flow ..... 5-5  
5.4 Historic Use Information ..... 5-5  
5.4.1 Directories ..... 5-5  
5.4.2 Aerial Photographs ..... 5-5  
5.4.3 Topographic Maps ..... 5-6  
5.4.4 Sanborn Fire Insurance Maps ..... 5-7  
5.5 Historic Adjoining Property Use ..... 5-7

**Section 6 Site Reconnaissance**

6.1 Methodology ..... 6-1



6.2 Site Setting ..... 6-1  
6.3 Observations ..... 6-1  
6.4 PCB and Petroleum Containing Equipment ..... 6-2  
6.5 Hazardous Substances and Waste ..... 6-2  
6.6 Adjoining Property Observations ..... 6-2

**Section 7 Interviews**

7.1 Owner ..... 7-1  
7.2 Occupants ..... 7-1  
7.3 Local Government ..... 7-1  
    7.3.1 Tax Assessor ..... 7-1  
    7.3.2 Building/Planning/Zoning, and Health Departments ..... 7-1  
    7.3.3 Fire Department ..... 7-1

**Section 8 Additional Services**

8.1 Hazardous Building Materials ..... 8-1  
8.2 Radon ..... 8-1  
8.3 Regulatory Compliance ..... 8-1  
8.4 Cultural and Historic Resources ..... 8-1  
8.5 Industrial Hygiene, Indoor Air, and Mold ..... 8-1  
8.6 Health and Safety ..... 8-1  
8.7 Ecological Resources and Endangered Species ..... 8-1

**Section 9 Summary and Recommendations**

9.1 Summary ..... 9-1  
9.2 Recommendations ..... 9-2

**Section 10 Environmental Certification**

10.1 Deviations ..... 10-1  
10.2 Limitations ..... 10-1  
10.3 Reliance ..... 10-2  
10.4 Environmental Professional Signature ..... 10-3

**Appendices**

Appendix A

- Figure 1 Site Location Map
- Figure 2 Aerial Photograph
- Figure 3 Soils Map
- Figure 4 Surficial Materials Map
- Figure 5 Bedrock Geology Map
- Figure 6 Environmental Resources Map
- Figure 7 Water Classification Map

Appendix B Property Cards, Survey, and User Questionnaire

Appendix C Site Photographs

Appendix D EDR Report

Appendix E Historic Topographic Maps and Historic Aerial Photographs

**List of Acronyms and Definitions**

AAI	All Appropriate Inquiries
AOC	Area of Concern
MSL	Mean Sea Level
APA	Aquifer Protection Area
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
Bgs	Below Ground Surface
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CERC-NFRAP	Comprehensive Environmental Response Compensation and Liability Information System Archived sites
CFR	Code of Federal Regulations
CGS	Connecticut General Statute
COC	Contaminant of Concern
COR	Corrective Action sites
CPCS	Contaminated or Potentially Contaminated sites
CTDEEP	CT Department of Energy and Environmental Protection
DECD	CT Department of Economic and Community Development
DOT	Department of Transportation
Federal EC/IC	Federal Engineering and Institutional Controls
State EC/IC	State Engineering and Institutional Controls
EDR	Environmental Data Resources Inc.
ERNS	Emergency Response Notification System
ESA	Environmental site Assessment
ETPH	Extractable Total Petroleum Hydrocarbons
FEMA	Federal Emergency Management Agency
GA PMC	Groundwater Area Pollutant Mobility Criteria
HBMA	Hazardous Building Materials Assessment
LEP	Licensed Environmental Professional
LUST	Leaking Underground Storage Tank
LWDS	CT Leachate and Waste Water Discharge Inventory Data Layer
NDDH	Northeast District Department of Health
NPL	National Priorities List

---

NRCS	Natural Resource Conservation Survey
Pci/L	Picocuries per liter
RCRA	Resource Conservation and Recovery Act
RCRA COR ACT	Recovery Act Corrective Actions
RCRA GEN	RECRIS Generator sites
RCRA TSD	RECRIS Treatment, Storage, and Disposal Facilities
REC	Recognized Environmental Condition
RECRIS	Resource Conservation and Recovery Information System
SDADB	Site Discovery and Assessment Database
SPLP	Synthetic Precipitation Leaching Procedure
SVOCs	Semi-Volatile Organic Compounds
SWL	Solid Waste Landfill
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VCP	Voluntary Remediation Program sites
VOCs	Volatile Organic Compounds
WQS	Water Quality Standards
WSS	Web Soil Survey



# Section 1

## Introduction

### 1.1 Purpose

Tighe & Bond, Inc. (Tighe & Bond) has completed a Phase I Environmental Site Assessment (ESA) on behalf of RES America Developments, Inc. (RES, Client) for the property located at 101 Woods Hill Road, in Pomfret, Connecticut. The site includes an approximately 111-acre parcel of land located to the south and east of the terminus of Woods Hill Road.

The purpose of the Phase I ESA was to assess the site for evidence of recent or historical Recognized Environmental Conditions (RECs) / Areas of Concern (AOCs) in general accordance with guidelines described in ASTM E1527-13 and CTDEEP Site Characterization Guidance Document. It is our understanding that this Phase I ESA was conducted in order to facilitate the possible development of the site as a commercial scale solar PV project.

The site location is shown on Figure 1 (Appendix A).

### 1.2 Scope of Work

The Phase I ESA was conducted in accordance with our proposal dated May 20, 2015. This Phase I ESA was conducted to identify Recognized Environmental Conditions (RECs), also identified as Areas of Concern (AOCs), as applicable resulting from past or present activities on the site and to determine if any of the surrounding properties have the potential to impact the environmental integrity of the site. The assessment consisted of a reconnaissance of accessible areas at the site, a review of State and Federal environmental databases as they pertain to the site and surrounding properties, a review of historical aerial photographs, topographic maps, Sanborn maps, and city directories for the site and surrounding properties, a review of available state and local records, and interviews with individuals knowledgeable about the site.

This Phase I ESA was conducted in a manner consistent with industry standard and practice and in general accordance with the Standards of the American Society for Testing and Materials (ASTM) E1527-13 Standard Practice for Environmental site Assessments, EPA's All Appropriate Inquiry, and the Connecticut Department of Energy and Environmental Protection (CTDEEP) *site Characterization Guidance Document, dated September 2007* (revised December 2010).

## **Section 2**

### **Site Description**

#### **2.1 Location and Legal Description**

The site consists of a parcel designated with Property Identification Number CT-112-43-A-005.00 by the Town of Pomfret's Tax Assessor's office. According to the Town of Pomfret's Tax Assessor's Parcel Maps, the site is comprised of approximately 111 acres of land and is currently owned by Juanita R Cristina & Sheila S Nabozny.

Refer to Figure 1 and Figure 2 for a Site Location Map and an Aerial Photograph, respectively. A copy of the Property Card and a legal description of the site is included in Appendix B.

#### **2.2 Site and Vicinity Characteristics**

The site is located to the south and east of the terminus of Woods Hill Road. The site is bounded to the west and east by undeveloped land; to the north by a residential property and agricultural land; and to the south by undeveloped land and sparse residences.

The site and the areas north and east of the site are zoned by the Town of Pomfret Zoning Map as Commercial Business. The areas west and south of the site are zoned as rural residential.

#### **2.3 Current Use**

The site is currently unoccupied and is used as an agricultural farm for harvesting hay and corn.

#### **2.4 Site Improvements**

The majority of the site is cleared agricultural land, with the exception of wooded areas in the south and eastern portion. A large Connecticut Light & Power transmission line and right of way traverse the site to the east of the cleared portion. Access to the site is provided by Woods Hill Road.

A site aerial is provided as Figure 2 (Appendix A). Photographs taken at the time of the site visit are provided in Appendix C.

#### **2.5 Surrounding Area Uses**

The following uses were noted for properties abutting the site:

- North: A residential property, agricultural land, forested land a large Connecticut Light & Power transmission line and right of way.
- South: Undeveloped forested land, a large Connecticut Light & Power transmission line, and residential properties along Woods Hill Road.
- East: Undeveloped forested land and the Quinebaug River.
- West: Residential properties along Woods Hill Road and agricultural land.

## **Section 3**

### **User Provided Information**

#### **3.1 Land Records**

Tighe & Bond did review deeds for the site as part of this Phase I ESA for the purpose of identifying general ownership history. A legal title and lien search was not part of this scope of work.

Any environmental liens or activity and use limitations information in the possession of the User is required to be reported to the Environmental Professional conducting the Phase I ESA per ASTM E1527-13. According to the User, no environmental liens or activity and use limitations exist for the site. The User indicated that the Town of Pomfret rezoned the land as commercial.

#### **3.2 Specialized Knowledge**

Specialized knowledge is defined by ASTM E1527-13 as “any specialized knowledge or experience that is material to RECs or AOCs in connection with the property.”

No information related to “specialized knowledge” for environmental issues was provided by the User as part of this Phase I ESA. The User was not aware of other former activities at the site except for agricultural use.

#### **3.3 Common Information**

If the User is aware of any commonly known or reasonably ascertainable information within the local community about the property that is material to RECs or AOCs in connection with the property, it is the User’s responsibility to communicate such information. This information may include past uses of the property, specific chemicals that were used on a site, spills or releases, or environmental cleanups that have taken place.

No information related to “common information” for environmental issues was provided by the User as part of this Phase I ESA. The User was unaware of spills, releases, or environmental cleanups having taken place at the site.

#### **3.4 Value Reduction of Environmental Issues**

In a transaction involving the purchase of a parcel of commercial real estate, the User shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. The User should try to identify an explanation for a lower price which does not reasonably reflect fair market value if the property were not contaminated. The User is not aware of any value reduction for environmental issues.

#### **3.5 Owner and Occupant Information**

The site is currently owned by Juanita R Christina & Sheila S Nabozny. Refer to Section 7 for a more detailed discussion.

## **Section 4**

# **Previous Environmental Reports**

Previous environmental assessments for the site were not identified or provided during this ESA.



## Section 5

### Records Review

#### 5.1 Standard Environmental Records Search

A database search report that identifies sites listed on state and federal databases within the ASTM-required radii was obtained for the property from Environmental Data Resources Inc. (EDR) on October 19, 2015. A copy of the complete EDR report is provided as Appendix D.

The report includes the following databases specified by the ASTM Phase I protocol:

<u>Database</u>	<u>Search Radius</u>	<u>Total sites Identified</u>
National Priority List (NPL)	1 mile	0
NPL Delisted	0.5 mile	0
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)	0.5 mile	1
No Further Remedial Action Planned (CERC-NFRAP) Comprehensive Environmental Response Compensation and Liability Information System Archived sites	0.5 mile	1
Resource Conservation and Recovery Information System (RECRIS), Resource Conservation and Recovery Act Corrective Actions (RCRA CORRACT)	1 mile	1
RECRIS Treatment, Storage, and Disposal Facilities (RCRA TSD)	0.5 mile	1
RECRIS Generator sites (RCRA GEN)	0.25 mile	0
Federal Engineering and Institutional Controls (Federal IC/EC)	0.50 mile	0
Emergency Response Notification System (ERNS)	0.12 mile	0
State- and tribal-equivalent CERCLIS	1 mile	2
CT Leachate and Waste Water Discharge Inventory Data Layer (LWDS)	0.25 mile	0
State/Tribal Leaking Underground Storage Tank (LUST)	0.5 mile	1
Regulated State Underground Storage Tank (UST) and Aboveground Storage Tank database (AST)	0.25 mile	0
State Engineering or Institutional Controls (State IC/EC)	0.25 mile	0
Voluntary Remediation Program sites (VCP)	0.5 mile	0
US Brownfields sites	0.5 mile	0
CTDEEP Contaminated and Potentially Contaminated sites (State sites)	0.5 mile	0
CT Significant Environmental Hazard	0.25 mile	0

A description of the databases, additional sources searched, and a complete listing of sites identified on the databases is provided in the EDR report.

Tighe & Bond evaluated the following to determine whether additional environmental records with respect to these facilities, including the orphan (non-geocoded) sites, should be reviewed.

- Case status (i.e., whether a No Further Action letter has been issued or a case has been closed)
- Type of database and whether the presence of soil or groundwater contamination is known
- Distance of the property from the site
- Whether the property is hydrogeologically up gradient or down gradient of the site based on local topography and an inferred southwesterly and easterly groundwater flow direction

Tighe & Bond reviewed the information provided using the above criteria and the findings are discussed in the following sections.

### **5.1.1 Subject Site**

The site was not identified in any of the environmental databases queried in the EDR report.

### **5.1.2 Surrounding Properties**

Three properties were identified in the EDR, their information is summarized below. The three properties are located hydrogeologically down-gradient to the site; as such, it is unlikely that releases at these properties would impact the site.

#### **5.1.2.1 Maiorino Residence, 426 Church Street – 0.2 Miles South**

This property was listed in the Leaking UST (LUST), and CPCS databases. On March 17, 1997 a LUST was reported noting that 500 gallons of #2 Fuel Oil leaked out of fuel lines into a tank grave. A former UST was previously removed from the ground; however, the lines were left in place and the contents leaked into the soil. The soil and septic system were removed from the ground. The LUST status is listed as "Pending". The property was cross listed in the CPCS database with the same description, with the status listed as "Investigation".

#### **5.1.2.2 Rogers Corporation, 1 Technology Drive – 0.4 Miles Northeast**

This property was listed in several databases including the Manifest, RCRA-LOG, ENF, CERC-NFRAP, RCRA-TSDF, CORRACTS, Financial Assurance, 2020 Corrective Action, and US AIRS databases. The Manifest database listing indicates that the Rogers Corporation generates several different hazardous wastes including Petroleum Oil, Mercury, non-listed corrosive wastes, and non-listed ignitable wastes. The CERC-NFRAP database indicates that the property has been archived and a preliminary assessment and site inspection have been conducted. The property is listed as low priority for further assessment. The listing on the RCRA-TSDF database indicates that Rogers Corporation is a Large Quantity Generator and engaged in the treatment, storage, or disposal of hazardous waste. The database lists details about each type of hazardous waste generated by the facility. The listing on the CORRACTS database indicates that the facility was assigned a high corrective action priority for unlaminated plastics film and

sheet manufacturing. Actions indicate that the current human exposures are under control and the migration of contaminated groundwater is under control.

The RCRA-LQG, ENR, Financial Assurance, 2020 Cor Action, and US AIRS databases have no additional details for the property.

#### 5.1.2.3 CT DOT Searles Rd Disposal Facility, Pomfret Rd – 0.5 Miles Southwest

This property was listed on the SDADB, CPCS, SHWS, and CERCLIS databases. The SDADB database listing indicates that the property disposed of Chlorinated Volatile Organic Compound Solvent wastes into a landfill. The property is listed under the Superfund remediation program. The CPCS database listing indicates that the property is under study by the DOT and the site type definition is listed as "Inventory of Hazardous Waste Disposal Sites". No additional information was provided on the SHWS database. The CERCLIS database indicates that the property cleanup is State-Lead and EPA Fund-Financed. The property is also listed as a low priority for further assessment.

#### 5.1.3 Orphan Site Summary

Due to poor or inadequate address information, six orphan properties were not mapped as part of the EDR report. As such, distance, topographical, and presumed hydrogeological measurements relative to the site are unknown. Based on our review of information provided for these properties, three of the properties are already mapped and include Rogers Corporation (which was listed two times) and the CT DOT Searles Rd Disposal Facility. Three additional properties do not appear to be within the one mile search radius of the site.

## 5.2 Additional Environmental Records Sources

Tighe & Bond visited the CTDEEP Public File Room on October 20, 2015 and conducted a municipal file review on November, 4, 2015 to request available files for the site. Environmentally pertinent information was not identified on file for the site.

## 5.3 Physical Setting

### 5.3.1 Soil Information

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey (WSS) for the State of Connecticut (NRCS Webpage, 2009), the soils at the site are identified within the table below.

Soil Type	Approx. Area	Description
Woodbridge fine sandy loam	38%	Moderately well drained fine sandy loam found on drumlins, ground moraines, and hills
Charlton-Chatfield complex, very rocky	20%	Well drained fine sandy loam found on hills
Woodbridge fine sandy loam	17%	Moderately well drained fine sandy loam found on drumlins, ground moraines, and hills
Woodbridge fine sandy loam, extremely stony	7%	Moderately well drained fine sandy loam, found on drumlins, ground moraines, and hills
Charlton-Chatfield complex	6%	Well drained fine sandy loam found on hills

Hinckley loamy sand	<5%	Excessively drained loamy sand found on eskers, kame terraces, outwash plains, kames, moraines, outwash terraces, and outwash deltas
Ridgebury, Leicester, and Whitman soils, extremely stony	<5%	Poorly drained sandy loam found in depressions, drainage ways, ground moraines, and hills
Canton and Charlton soils, extremely stony	<5%	Well drained gravelly loam found on hills
Paxton and Montauk fine sandy loams	<2%	Well drained fine sandy loam found on drumlins, ground moraines, and hills
Woodbridge fine sandy loam, very stony	<2%	Moderately well drained fine sandy loam found on drumlins, ground moraines, and hills
Canton and Charlton soils, extremely stony	<2%	Well drained gravelly loam found on hills
Rippowam fine sandy loam	<2%	Poorly drained fine sandy loam found in flood plains
Pootatuck fine sandy loam	<2%	Moderately well drained fine sandy loam found on flood plains
Paxton and Montauk fine sandy loams	<2%	Well drained fine sandy loam found on drumlins, ground moraines, and hills

Surficial materials underlying the site consist of thick till, thin till, and natural postglacial deposits. A description of these surficial materials is as follows:

**Thick Till:** Areas where till is greater than 10 to 15 feet thick and includes drumlins. Predominately lower till; moderately to very compact, and is commonly finer-grained and less stony than upper till.

**Thin Till:** Areas where till is generally less than 10 to 15 feet thick and includes bedrock outcrops. Predominately upper till; loose to moderately compact, generally sandy, commonly stony.

**Natural Postglacial:** Primarily floodplain alluvium and swamp deposits. Less widely distributed and typically thinner than the glacial deposits they overlie. Floodplain alluvium consists of sand, gravel, silt, and some organic material, on the floodplain of modern streams. Swamp deposits consist of muck and peat that contain minor amounts of sand, silt, and clay, accumulated in poorly drained areas.

A soils map of the site is provided as Figure 3. A surficial materials map of the site is provided as Figure 4.

### 5.3.2 Geology

According to the *Bedrock Geologic Map of Connecticut* (U.S. Geological Survey, 1985), approximately 90% of the site is located within the Felsic Gneiss Member of the Quinebaug Formation. The USGS Mineral resources spatial data for Connecticut on-line describes this unit as light to medium-gray, fine to medium-grained gneiss.

Approximately 5% of the western part of the site is located within the Quinebaug Formation. The USGS Mineral resources spatial data for Connecticut on-line describes this unit as gray to dark-gray, medium-grained, well-layered gneiss.

Approximately 5% of the southern and eastern part of the site is located within the Black Hill Member of the Quinebaug Formation. The USGS Mineral resources spatial data for Connecticut on-line describes this unit as gray, medium to fine-grained, well-layered schist and granofels.

A bedrock geology map of the site is provided as Figure 5.



### 5.3.3 Flood Plain, Wetlands, and Aquifer Protection Area Information

A review of the Federal Emergency Management Agency (FEMA) Flood Insurance Maps indicates that the site is not located within a flood zone for the Quinebaug River and White Brook. According to the National Wetlands Inventory and CTDEEP Wetlands GIS databases, wetlands are present on the site. Several wetland areas are present across the site.

According to information provided by the Town of Pomfret's Inland Wetlands & Watercourse Department there are three main areas of wetlands. The town of Pomfret, CT is not included in the current CTDEEP GIS data for Aquifer Protection Areas (APAs).

Flood Plains, Wetlands, Aquifer Protection areas are provided as Figure 6 (Environmental Resources Map).

### 5.3.4 Groundwater Classification and Flow

According to the CTDEEP Bureau of Water Protection & Land Reuse, groundwater at the site is classified as GA. CTDEEP Water Quality Standards (WQS; effective April 12, 1996) indicate that GA groundwater is designated for use with existing private and potential public or private supplies of water suitable for drinking without treatment. Discharge in GA groundwater areas is restricted to treated domestic sewage, certain agricultural wastes, certain water treatment wastewaters and discharge from septage treatment facilities subject to stringent treatment and discharge requirements, and other wastes of natural origin that easily biodegrade and present no threat to groundwater.

Based on topography of the site, shallow overburden groundwater on the site is inferred to flow generally southeast towards the Quinebaug River.

According to CTDEEP, the Quinebaug River is classified as B. CTDEEP indicates that Class B surface water is designated uses are habitat for fish and aquatic life and wildlife; recreation; navigation; and industrial and agricultural waters supply. Discharges are restricted to discharges from public or private drinking water systems, dredging and dewatering, emergency and clean water discharges, cooling waters, and discharges from industrial and municipal wastewater treatment facilities.

Figure 7 shows the water classification areas and surface water bodies for the site.

## 5.4 Historic Use Information

Historical street directories, aerial photographs, topographic maps, and Sanborn fire insurance maps were reviewed for the site and surrounding areas.

### 5.4.1 Directories

Historical street directories from 1936 to 2015 were researched at the Connecticut State Library in Hartford, Connecticut on October 27, 2015. The site was not listed in any of the directories. Woods Hill Road was not listed until the 1997 directory. From 1997 through 2012, Nabozny is listed as the occupant of 13 Woods Hill Road. From 1999 through 2002, Tyler W. F. Jr. is listed as the occupant for 90 Woods Hill Road. Woods Hill Road is not listed in the 2014/2015 directory.

Additionally, street directories from 1993 to 2013 were requested as part of the EDR report. The site was not listed in any of the directories researched. Copies of these documents are provided with the EDR report in Appendix D.

**5.4.2 Aerial Photographs**

Historical aerial photographs of the site and surrounding area dated 1941, 1951, 1963, 1969, 1980, 1986, 1990, 1991, 1996, 2005, 2006, 2008, 2010, and 2012 were reviewed through the EDR report. Below is a summary of the site and surrounding properties. Aerial photographs are included in Appendix E.

Aerial Photographs		
Year	The Site	Surrounding Properties
1941	The majority of the site is cleared agricultural except the southern and eastern areas are forested. Quinebaug River is also depicted in this aerial. The large Connecticut Light & Power transmission line appears to run through the eastern side of the site.	The site is surrounded by undeveloped wooded land. Several buildings appear across Quinebaug River to the northeast of the site. A structure is depicted at the terminus of Woods Hill Road.
1951	The site appears similar to the 1941 aerial.	The surrounding area appears similar to the 1941 aerial. A portion of the forested land south of the site is cleared agricultural land. Four structures are depicted at the terminus of Woods Hill Road.
1963	The site appears similar to the 1951 aerial photograph.	The surrounding area appears similar to the 1951 aerial. The four structures are still depicted at the terminus of Woods Hill Road.
1969	The site appears similar to the 1963 aerial.	The surrounding area appears similar to the 1963 aerial.
1980	No changes are apparent; however, the photograph is of poor quality.	The surrounding area appears similar to the 1969 aerial.
1986	The site appears similar to 1980 photograph.	The surrounding area appears similar to the 1980 aerial. Only one structure is depicted at the terminus of Woods Hill Road.
1990 to 1996	The site appears similar to the 1986 photograph.	The surrounding area appears similar to the 1986 aerial.
2005 to 2012	The site appears similar to the 1996 photograph.	Surrounding properties appear similar to the 1996 photograph.

**5.4.3 Topographic Maps**

Tighe & Bond reviewed available online historic USGS topographic maps for the years: 1893, 1915, 1943, 1947, 1955, and 1970. A summary of the site and surrounding properties is listed below.

Topographic Maps		
Year	The Site	Surrounding Properties

Topographic Maps		
Year	The Site	Surrounding Properties
1893	The site elevation varies from approximately 240 to 390 feet above mean sea level (MSL). The site slopes to the southeast towards the Quinebaug River. The Quinebaug River is depicted on the map. Woods Hill Road is also depicted on the map.	Topography slopes away from the site towards Quinebaug River to the east, White Brook to the west, and Long Brook to the south. Surrounding properties have sparse buildings. One building is depicted at the terminus of Woods Hill Road to the north of the site.
1915	The site appears similar to the 1893 topographic map. The majority of the site is depicted as forested and undeveloped.	The surrounding area appears similar to the 1893 map.
1943	Woods Hill Road and the aforementioned building are not depicted on the map.	The surrounding area appears similar to the 1915 topographic map. No buildings are depicted on surrounding properties.
1947	The site elevation varies from approximately 200 to 390 feet above mean seal level (MSL). There is one location marked 391 feet above MSL on the northwestern boundary of the site. The site slopes to the southeast towards the Quinebaug River. The Quinebaug River is depicted on the map. The Connecticut Light & Power transmission line is also depicted on the map. In the eastern extent of the site wetlands are depicted along the Quinebaug River.	The surrounding area appears similar to the 1943 topographic map. Topography slopes away from the site towards wetland areas to the west, south, and east of the site. One building is depicted north of the site. The building is located at the terminus of Woods Hill Road.
1955	The site appears similar to the 1947 topographic map.	The surrounding area appears similar to the 1947 topographic map. Three buildings are depicted north of the site.
1970	The site appears similar to the 1955 topographic map.	The surrounding area appears similar to the 1955 topographic map. One of the buildings depicted in the 1955 map is no longer present. Only two buildings are depicted north of the site.

**5.4.4 Sanborn Fire Insurance Maps**

Sanborn fire insurance maps of the site were requested through the EDR report. No Sanborn maps were available for the site.

**5.5 Historic Adjoining Property Use**

Historically, properties surrounding the site have consisted of residential land, agricultural land, undeveloped/forested land, and a large Connecticut Light & Power transmission line and right of way.

## **Section 6**

# **Site Reconnaissance**

### **6.1 Methodology**

Tighe & Bond conducted a Phase I ESA site reconnaissance on November 4, 2015. Reconnaissance at the site included a walk-through for the purpose of identifying RECs and AOCs. Photographs taken during the reconnaissance are included in Appendix C.

A visual assessment of adjoining properties from the subject property line, public rights-of-way or other vantage points (e.g. aerial photography) including a visual assessment where hazardous substances may be or may have been stored, treated, handled or disposed was also conducted.

### **6.2 Site Setting**

The site was comprised of undeveloped agricultural land, forested areas, and a large Connecticut Light & Power transmission line. The site topography sloped gradually east, with a very steep gradient in the forested eastern area of the site. Several stone walls were observed throughout the site. A vehicle access road was observed along the large Connecticut Light & Power transmission line and along the perimeter of the agricultural land. An existing footpath was used to walk through the southern forested areas. Several wetland areas were observed in the forested areas to the south and east.

### **6.3 Observations**

Tighe & Bond personnel viewed visible and accessible parts of the site and made the following observations:

- Several stone walls were observed throughout the site along property boundaries and within the forested area.
- A gravel access road was observed along the large Connecticut Light & Power transmission line. Several electric utility poles were observed with control panels and some with solar panels. Transformers were not identified on the old or new utility poles.
- A plastic tarp was set up as a shelter in the southern forested area of the site. A stone wall, a camp fire set up, and rubber tires were also observed adjacent to the tarp.
- An existing footpath as used to walk through the southern forested areas. The forested areas were observed from the footpath, which was surrounded by trees and brier. The eastern forested area did not have footpath, but was accessible around the brier. The ground was covered in leaves at the time of the site walk.
- Several survey flags and wetland marking flags were observed throughout the forested areas. Areas with perennial streams were observed and were dry at the time of the site walk.
- The eastern portion of the forested area had a very steep gradient sloping to the east towards the Quinebaug River.



- On the northern property line, adjacent to the residential property, two former wooden sheds were observed. One shed was a debris pile of wood and the second shed was collapsing and overgrown.

Photographs taken during the site reconnaissance are included in Appendix C.

## 6.4 PCB and Petroleum Containing Equipment

PCB containing equipment was not observed during the site reconnaissance.

## 6.5 Hazardous Substances and Waste

Hazardous substances or waste were not observe at the site.

## 6.6 Adjoining Property Observations

The purpose of the reconnaissance was to observe general land use in the area of the site and confirm the location of the facilities identified on the environmental database search. In general, the surrounding property uses consist of undeveloped forested land, agricultural land, and residential properties. The following information pertaining to the adjacent properties was compiled from the site reconnaissance and the Town of Pomfret's Tax Assessor GIS database.

- North: A residential property, Woods Hill Road, agricultural land, a continuation of the large Connecticut Light & Power transmission line, and undeveloped forested land.
- South: Undeveloped forested land, a continuation of the large Connecticut Light & Power transmission line, and residential properties.
- East: Undeveloped forested land and the Quinebaug River.
- West: Residential properties, agricultural land, and Woods Hill road.

## **Section 7**

# **Interviews**

### **7.1 Owner**

The site is currently owned by Juanita R Cristina & Sheila S Nabozny. Employees of the Town of Pomfret and Juanita Cristina were interviewed as part of this Phase I ESA. Juanita Cristina completed the User Questionnaire.

Based on responses included in the User Questionnaire the above individuals are not aware of any existing or former USTs or ASTs, current buildings, or spills and/or releases at the site. Additionally, they have no documentation of on-site environmental violations at a local, state, or federal level. The site is currently used as an agricultural farm to harvest hay and corn.

According to Juanita Cristina and the Town of Pomfret there has been no generation or disposal of hazardous materials on or after November 19, 1980. Additionally, no dry cleaning, vehicular body repair, or furniture stripping was conducted on or after May 1, 1967 at the site.

A copy of the user questionnaire is included in Appendix B.

### **7.2 Occupants**

There are no occupants for the site.

### **7.3 Local Government**

Federal, state, and local agencies were contacted or visited by Tighe & Bond on November 4, 2015 regarding records of environmental concerns, violations, and/or permits.

#### **7.3.1 Tax Assessor**

Tighe & Bond reviewed the tax assessor database for the Town of Pomfret, CT. The property field card and parcel map are included in Appendix B.

#### **7.3.2 Building/Planning/Zoning, and Health Departments**

Tighe & Bond met with personnel from the Building and Planning & Zoning Departments to review available files pertaining to the site. Available files pertaining to the site were reviewed; environmentally pertinent information was not identified. Tighe & Bond met with personnel from the Northeast District Department of Health (NDDH) in Brooklyn, Connecticut. Environmental issues were not identified for the site in the files reviewed.

#### **7.3.3 Fire Department**

Tighe & Bond spoke to the Fire Marshal via telephone on November 5, 2015. The Fire Marshall did not have files or information for the site.

## **Section 8**

### **Additional Services**

#### **8.1 Hazardous Building Materials**

A Hazardous Building Materials Assessment (HBMA) was not included as part of this Phase I ESA.

#### **8.2 Radon**

The Connecticut Department of Public Health *Indoor Radon Potential Map of Connecticut* dated 1997 was reviewed to determine radon propensity at the site. The radon potential rating indicates the percentage of tested homes in these areas with basement air radon levels greater than 4.0 picocuries per liter (pCi/L, the USEPA action level). Based on this map, the area in which the site is identified as low-moderate to moderate (16% to 22%).

As per USEPA guidelines, the only way to assess potential radon gas exposure risks is to conduct a radon assessment. In addition, the USEPA recommends that follow-up tests on buildings should be conducted when major modifications are made either to the building structure or HVAC system or the HVAC system's operation settings.

Radon testing was not conducted as part of this Phase I ESA.

#### **8.3 Regulatory Compliance**

An assessment of regulatory compliance was not completed as part of this Phase I ESA.

#### **8.4 Cultural and Historic Resources**

An assessment of historic and archaeological resources on the site was not completed as part of this Phase I ESA.

#### **8.5 Industrial Hygiene, Indoor Air, and Mold**

An assessment of industrial hygiene, indoor air and mold was not completed as part of this Phase I ESA.

#### **8.6 Health and Safety**

An assessment of Occupational Safety and Health Administration compliance was not completed as part of this Phase I ESA.

#### **8.7 Ecological Resources and Endangered Species**

An assessment of potential ecological resources was completed as part of this Phase I ESA. According to CTDEEP mapping for State and Federal Listed Species and Significant Natural Communities for the Town of Pomfret, the site is not located within a listed species natural community. The property north of the site includes rare species habitat mapped pursuant to the natural Diversity Database Program. Figure 6 (Environmental Resources Map) depicts the site relative to this area.

## Section 9

# Summary and Recommendations

### 9.1 Summary

Tighe & Bond, Inc. (Tighe & Bond) has completed a Phase I Environmental site Assessment (ESA) on behalf of RES America Developments, Inc. for the site located at 101 Woods Hill Road, in Pomfret, Connecticut. The site consists of an approximately 111-acre parcel of land located to the south and east of the terminus of Woods Hill Road.

The purpose of the Phase I ESA was to assess the property or evidence of recent or historical RECs/AOCs in general accordance with guidelines described in ASTM E1527-13 and CTDEEP Site Characterization Guidance Document. It is our understanding that this ESA was conducted in order to facilitate the possible development of the site as a commercial scale solar PV project.

The site is located to the south and east of the terminus of Woods Hill Road. The majority of the site is cleared agricultural land, with the exception of wooded areas in the south and eastern portions. Access to the site is provided by Woods Hill Road. Site operations include agricultural farming of corn and harvesting of hay from at least 1941. In addition, a large Connecticut Light & Power transmission line and right of way (ROW) traverse are present along the east side of the cleared portion of the site. The ROW has been present at the site since at least 1941. Previous uses of the site were not identified or reported during this ESA.

The site is bounded to the west and east by undeveloped land; to the north by a residential property, agricultural land, and the Connecticut Light & Power ROW; and to the south by undeveloped land and sparse residences.

Previous environmental assessments for the site were not identified or provided during this ESA.

Published geological mapping indicates the site is underlain by thick till, thin till, and natural postglacial deposits. The bedrock underlying the site is mapped as gneiss. The site is identified in an area classified by the CTDEEP as GA. GA classified groundwater is generally inferred to be suitable for drinking without treatment. Based on topography of the site, shallow overburden groundwater is inferred to flow generally southeast towards the Quinebaug River, which is classified by the CTDEEP as a Class B surface water body. Wetlands and watercourses were observed on the site, particularly within forested areas along the eastern side of the site as well as the southern central portion of the site.

Based on information obtained during this Phase I ESA Tighe & Bond has identified the following RECs and / or AOCs at the site:

#### **REC-1/AOC-1: Pesticide and Herbicide Application at the site**

Based on historical aerial photographs and the site reconnaissance, several areas of agricultural fields are present throughout the site from circa 1941 to present day. Observations from the site walk indicate that row crops were grown at the site (corn stalks). Harvesting of hay was also reported for the site. It is possible that pesticides were applied to the site in order to control pests and vermin and herbicides may have been used as weed control.



Contaminants of concern (COCs) include Pesticides and Herbicides

During the completion of this Phase I ESA Tighe & Bond did not identify historical or controlled RECs in connection with the site.

The following de-minims environmental conditions were identified for site during the completion of this Phase I ESA:

- The presence of minor amounts of miscellaneous solid waste (wood, plastic, tires, and metal) identified at site.
- The potential application of herbicides along the Connecticut Light & Power transmission line and ROW. Based on historical information the ROW has been present since at least the early 1940s and will likely remain an electrical ROW. This condition is generally considered de-minims assuming the existing use remains the same and activities that may disrupt soil are not planned in this area.

The following business environmental risks were identified for the site during the completion of this Phase I ESA:

- The presence of wetlands and watercourses at the site.

Tighe & Bond has performed this Phase I ESA in general accordance with guidelines described in ASTM E1527-13, EPA's All Appropriate Inquire Rule, and CTDEEP Site Characterization Guidance Document to identify RECs and AOCs at the site in a manner consistent with standard practice in the industry. However, as indicated in the ASTM standard, "No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs and AOCs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs and AOCs in connection with a property, and the practice recognizes "reasonable limits of time and cost."

## **9.2 Recommendations**

Tighe & Bond recommends soil testing be conducted determine if the site has been impacted by releases associated with the on-site RECs / AOCs (application of pesticides and / or herbicides).

If soil disturbance or earthwork related activities are planned within the ROW we recommend soil testing be conducted, and as needed, development of a soil management plan.

## **Section 10**

# **Environmental Certification**

### **10.1 Deviations**

This Phase I ESA conforms to ASTM with the following deviations noted:

- An title and lien search was not completed as this information was not provided by the User.

It is the opinion of the reviewing Environmental Professional that the above-deficiencies will not detrimentally affect the identification of RECs/AOCs. This opinion is based on the following factors:

- The lack of title and lien search should not have an effect on the identification of RECs/AOCs since sufficient information for the site was available.

### **10.2 Limitations**

This report is prepared on behalf of and for the exclusive use of RES America Developments, Inc. (Client) and is subject to and issued in accordance with the Agreement and the provisions thereof. This report and any findings contained therein shall not, in whole or in part, be provided to or used by any other person, firm, entity or governmental agency in whole or in part, without the prior written consent of Client and Tighe & Bond. However, Tighe & Bond acknowledges and agrees that, subject to the Limitations set forth herein and prior written approval by Tighe & Bond, this report may be provided to specific financial institutions, attorneys, title insurers, lessees and/or governmental agencies identified by Client at or about the time of issuance of the report in connection with the conveyance, mortgaging, leasing, or similar transaction involving the real property which is the subject matter of a report and any work product. Use of this report for any purpose by any persons, firm, entity, or governmental agency shall be deemed acceptance of the restrictions and conditions contained therein, these Limitations and the provisions of Tighe & Bond's Agreement with Client. No warranty, express or implied, is made by way of Tighe & Bond's performance of services or providing an environmental site assessment, including but not limited to any warranty with the contents of a report or with any and all work product.

In preparing a report, Tighe & Bond, Inc. may rely on certain information provided by governmental agencies or personnel as well as information and/or representations provided by other persons, firms, or entities, and on information in the files of governmental agencies made available to Tighe & Bond at the time of the site assessment. To the extent that such information, representations, or files may be inaccurate, missing, incomplete or not provided to Tighe & Bond, Tighe & Bond is not responsible. Although there may be some degree of overlap in the information provided by these various sources, Tighe & Bond does not assume responsibility for independently verifying the accuracy, authenticity, or completeness of any and all information reviewed by or received from others during the course of the site assessment.

Unless otherwise noted, a survey (which includes observations, sampling and analysis) for the presence of polychlorinated biphenyls (PCBs) and asbestos contained in building materials, mold and/or lead-based paint is not conducted as part of an assessment.

Unless otherwise noted, an evaluation (which includes observation, sampling and analysis) for Vapor Intrusion Conditions (VIC) is not conducted as part of an assessment. No attempt is made to assess the compliance status of any past or present Owner or Operator of a site with any Federal, state, or local laws or regulations, unless specifically indicated otherwise in writing.

Findings, observations, and conclusions presented in this report, including but not limited to the extent of any subsurface explorations or other tests performed by Tighe & Bond, are limited by the scope of services outlined in the Agreement, which may establish schedule and/or budgetary constraints for an environmental assessment or phase thereof. Furthermore, while it is anticipated that each assessment will be performed in accordance with generally accepted professional practices and applicable standards (such as ASTM, etc.) and then applicable state and Federal regulations, as may be further described in the report and/or the Agreement, Tighe & Bond does not assume responsibility for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of its services.

The assessment presented in each report is based solely upon information obtained or received prior to issuance of the report. If additional environmental or other relevant information is developed at a later date, Client agrees to bring such information to the attention of Tighe & Bond promptly. Upon evaluation of such information, Tighe & Bond reserves the right to recommend modification of this report and its conclusions. In addition, dense forested areas on the site created some visual and access limitations during the site reconnaissance.

If included, any database search is conducted under the Notice of Disclaimer/Waiver of Liability included in the database search report.

### **10.3 Reliance**

The Environmental Professional Hereby certifies that this Phase I ESA has been conducted in accordance with EPA's AAI Final Rule and ASTM E1527-13. This Phase I ESA has been prepared for the sole use of RES America Developments, Inc. This Phase I ESA should not be relied upon by other parties without the express written consent of Tighe & Bond and RES America Developments, Inc.

In accordance with Section 4.6 of ASTM E1527-13 and 40 CFR §312.20, a Phase I ESA conducted within one year prior to the date of property acquisition is considered to be valid. However, the following components must be conducted or updated within 180 days prior to the date of property acquisition/real estate transaction:

- Interviews with past and present owners, operators and occupants;
- Searches for recorded environmental cleanup liens;
- Review of governmental records;
- site Reconnaissance of the property and adjoining properties; and
- The declaration by the Environmental Professional

**10.4 Environmental Professional Signature**

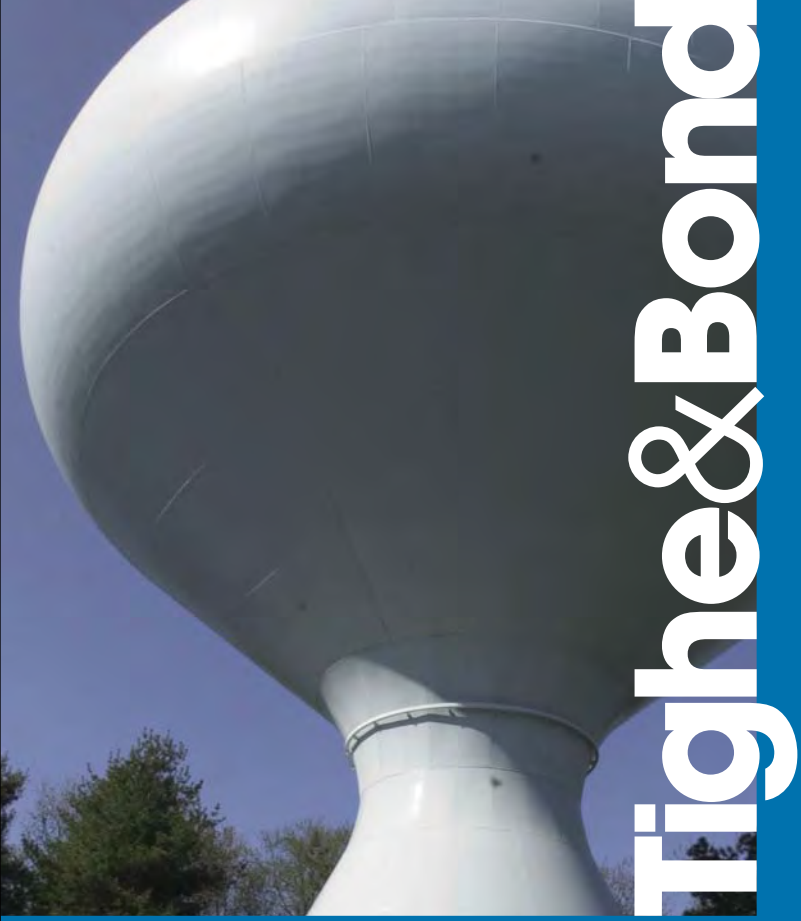
The author of this report declares that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312. The author of this report has the specific qualification based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. The author has developed and performed the all appropriate inquiries in the conformance with the standards and practices set for the in 40 CFR 312.



---

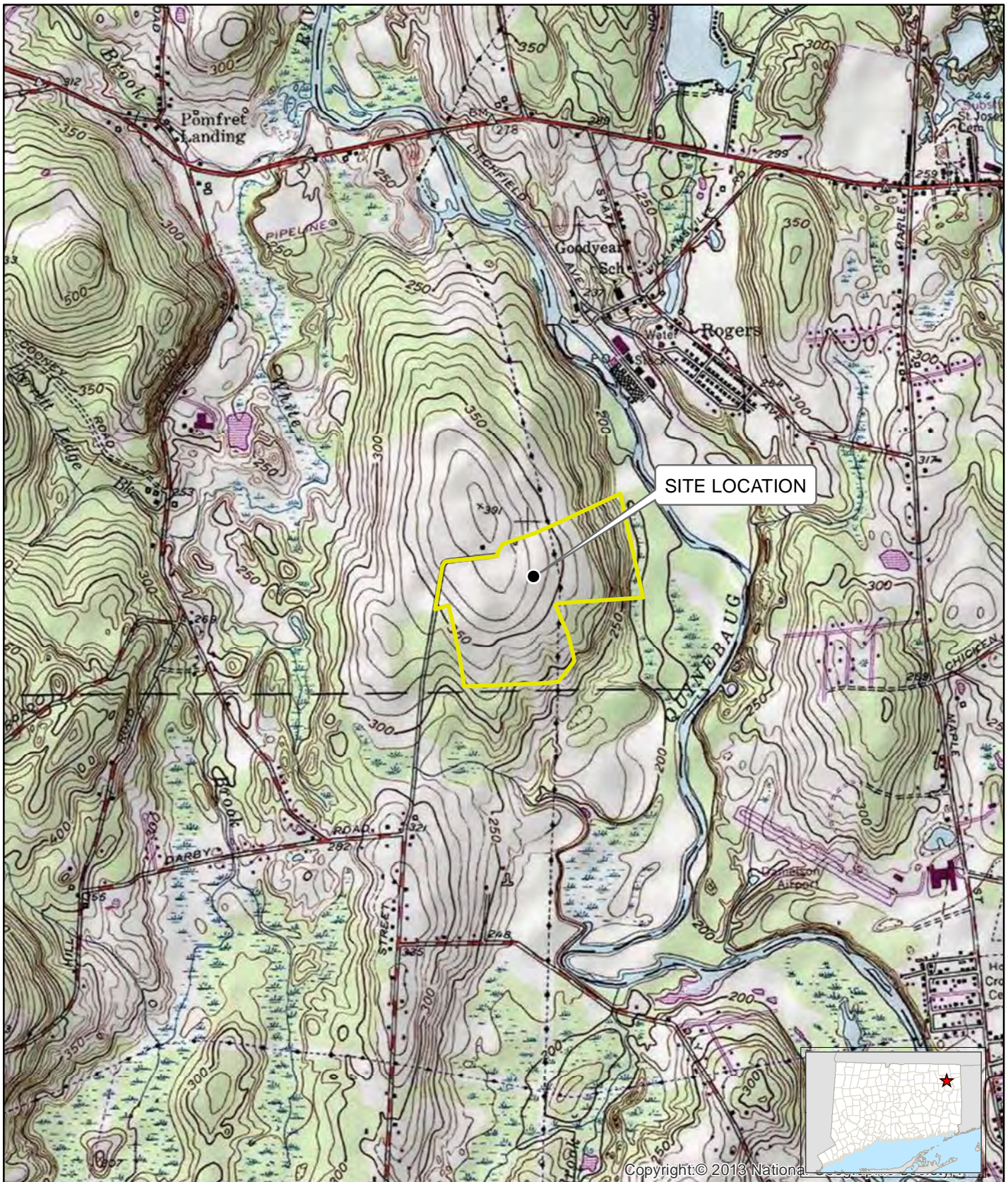
Nicholas A. Granata, LEP  
Senior Environmental Scientist





# Tighe & Bond





Copyright © 2013 National Geographic

**LEGEND**

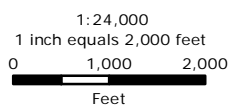
- Approximate Site Boundary
- Site Location

**FIGURE 1**  
**SITE LOCATION MAP**

101 Woods Hill Road  
Pomfret, CT

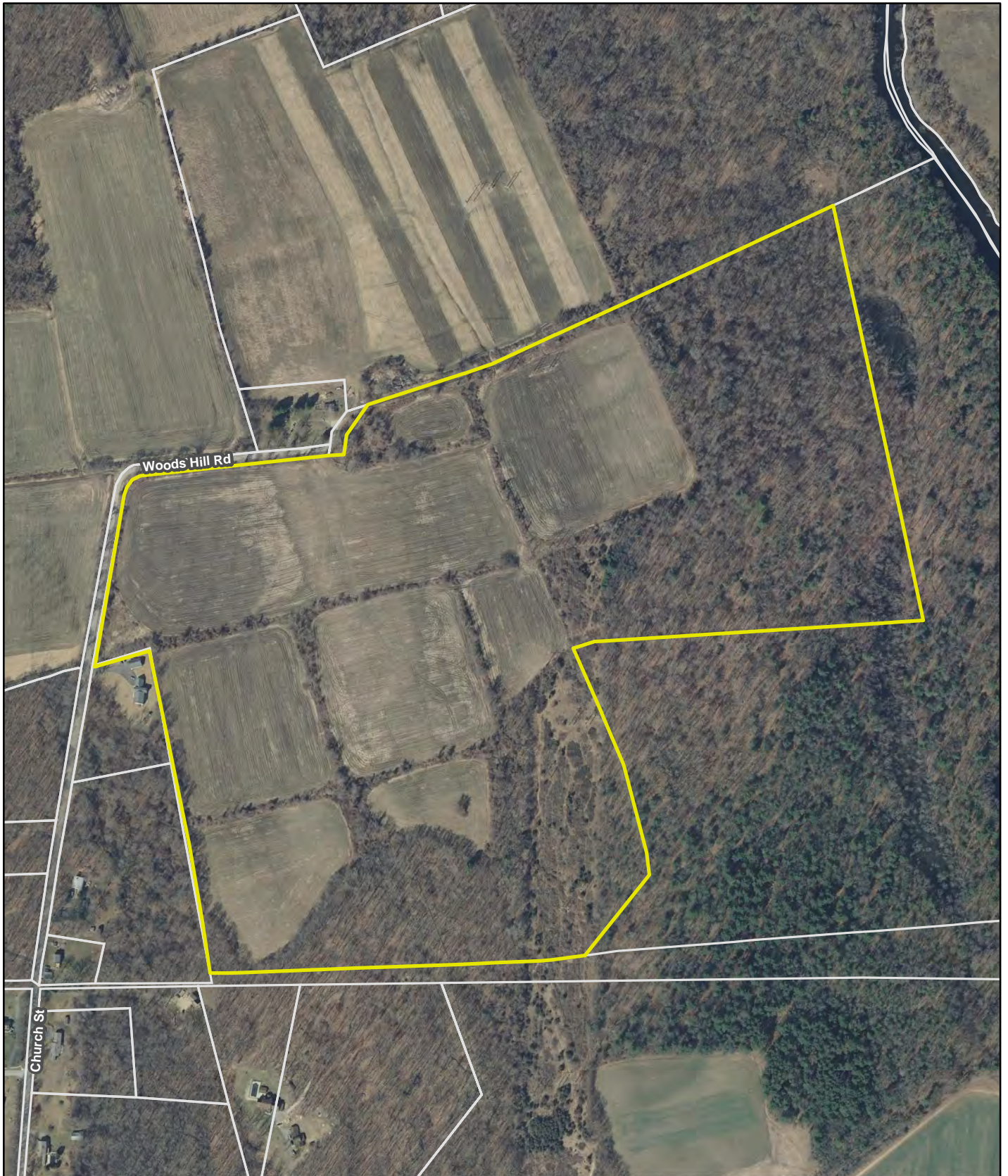


Source: U.S. Geological Survey, in cooperation with CTDEEP, Office of Information Management  
Based on USGS Topographic Map for Danielson, CT, Rev. 1970, 1:24,000  
Map Date: January 2016





January 2016





**LEGEND**

-  Approximate Site Boundary
-  Approximate Parcel Boundary

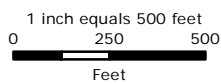
**FIGURE 2  
AERIAL PHOTOGRAPH**

101 Woods Hill Road  
Pomfret, CT

January 2016

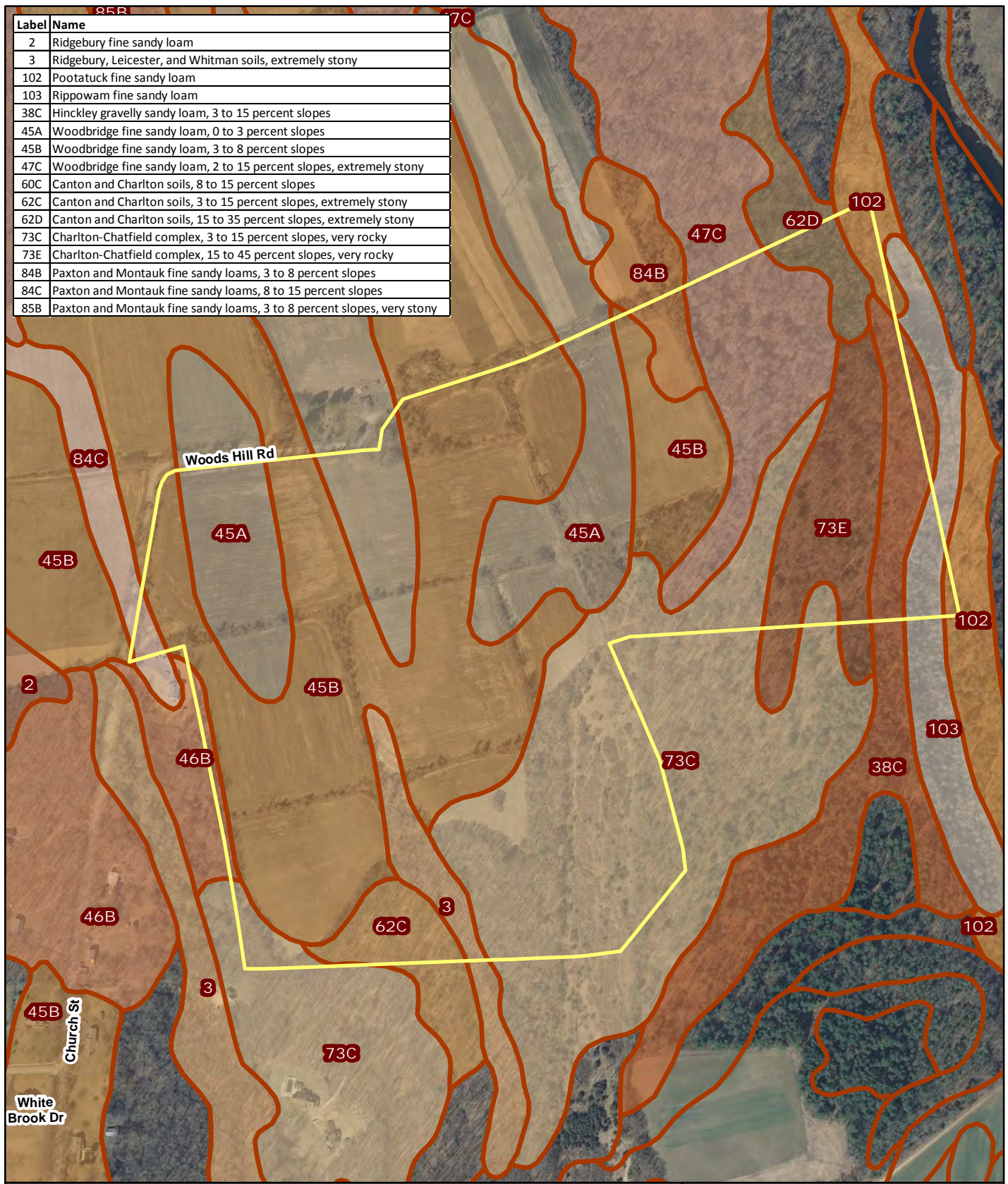


Source:  
Connecticut DEEP, Office of Information  
Management GIS Data and State of Connecticut 2012 aerial  
imagery with 1-foot ground resolution provided by CTECO





Label	Name
2	Ridgebury fine sandy loam
3	Ridgebury, Leicester, and Whitman soils, extremely stony
102	Pootatuck fine sandy loam
103	Rippowam fine sandy loam
38C	Hinckley gravelly sandy loam, 3 to 15 percent slopes
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes
47C	Woodbridge fine sandy loam, 2 to 15 percent slopes, extremely stony
60C	Canton and Charlton soils, 8 to 15 percent slopes
62C	Canton and Charlton soils, 3 to 15 percent slopes, extremely stony
62D	Canton and Charlton soils, 15 to 35 percent slopes, extremely stony
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony

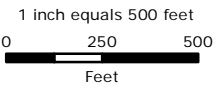


**LEGEND**

- Approximate Site Boundary
- Soil Boundary



Source:  
Soil Boundary data obtained from the United States Department of Agriculture Natural Resources Conservation Service (NRCS: <http://soildatamart.nrcs.usda.gov/>).  
Other GIS data layers displayed on this map were obtained from CTDEEP's (<http://www.ct.gov/deep>) data library.  
Ortho Base Map: State of Connecticut 2012 aerial imagery with 1-foot ground resolution provided by CTECO

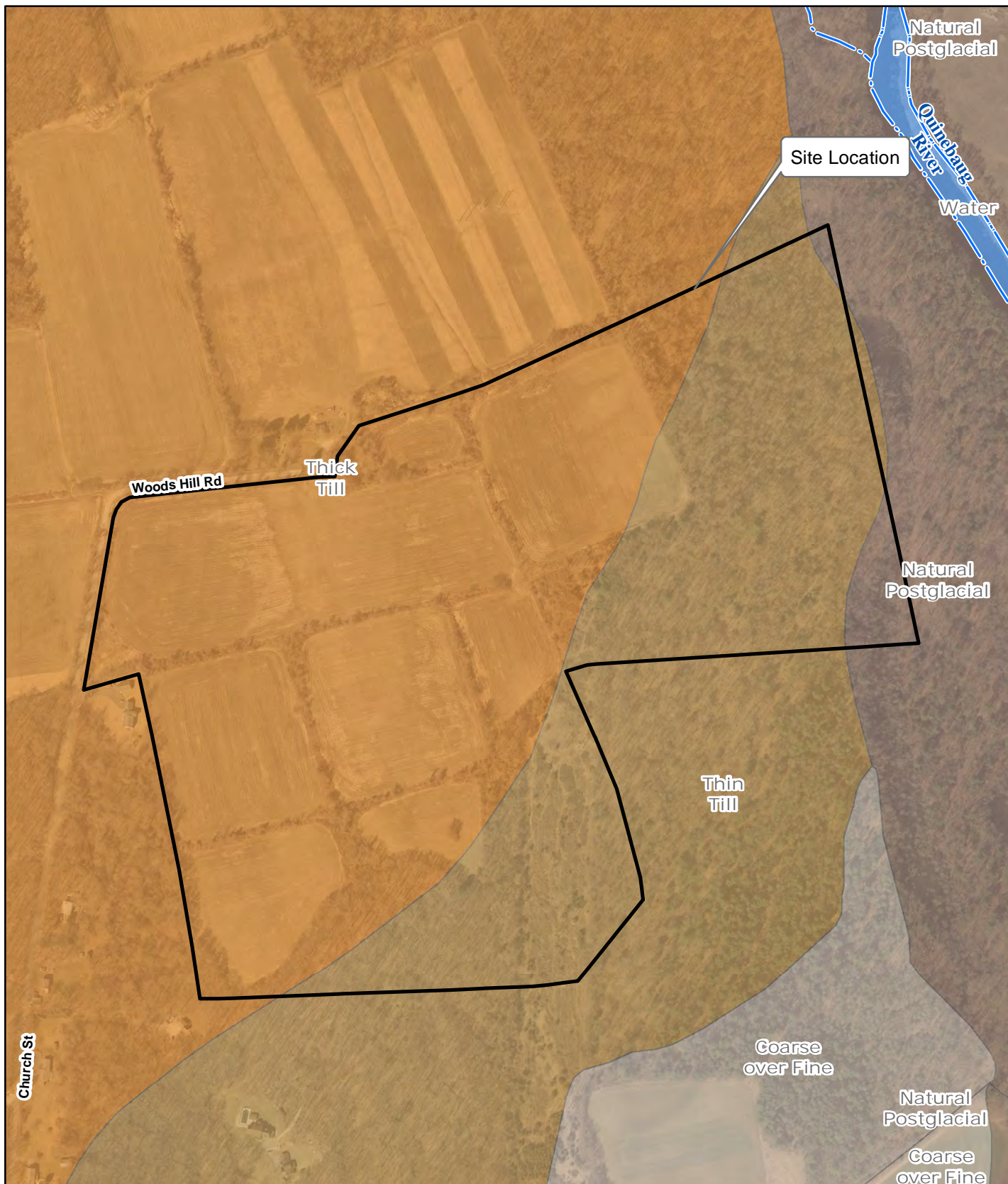


**FIGURE 3  
SOILS MAP**

101 Woods Hill Road  
Pomfret, CT

January 2016





**LEGEND**

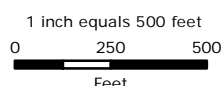
- Approximate Site Boundary
  - Watercourse
- |  |  |
|--|--|
| <p><b>Surficial Materials</b></p> <ul style="list-style-type: none"> <li> Coarse</li> <li> Coarse over Fine</li> <li> Natural Postglacial</li> </ul> | <ul style="list-style-type: none"> <li> Stacked Coarse</li> <li> Thick Till</li> <li> Thin Till</li> </ul> |
|--|--|

**FIGURE 4**  
**SUFICIAL MATERIALS MAP**

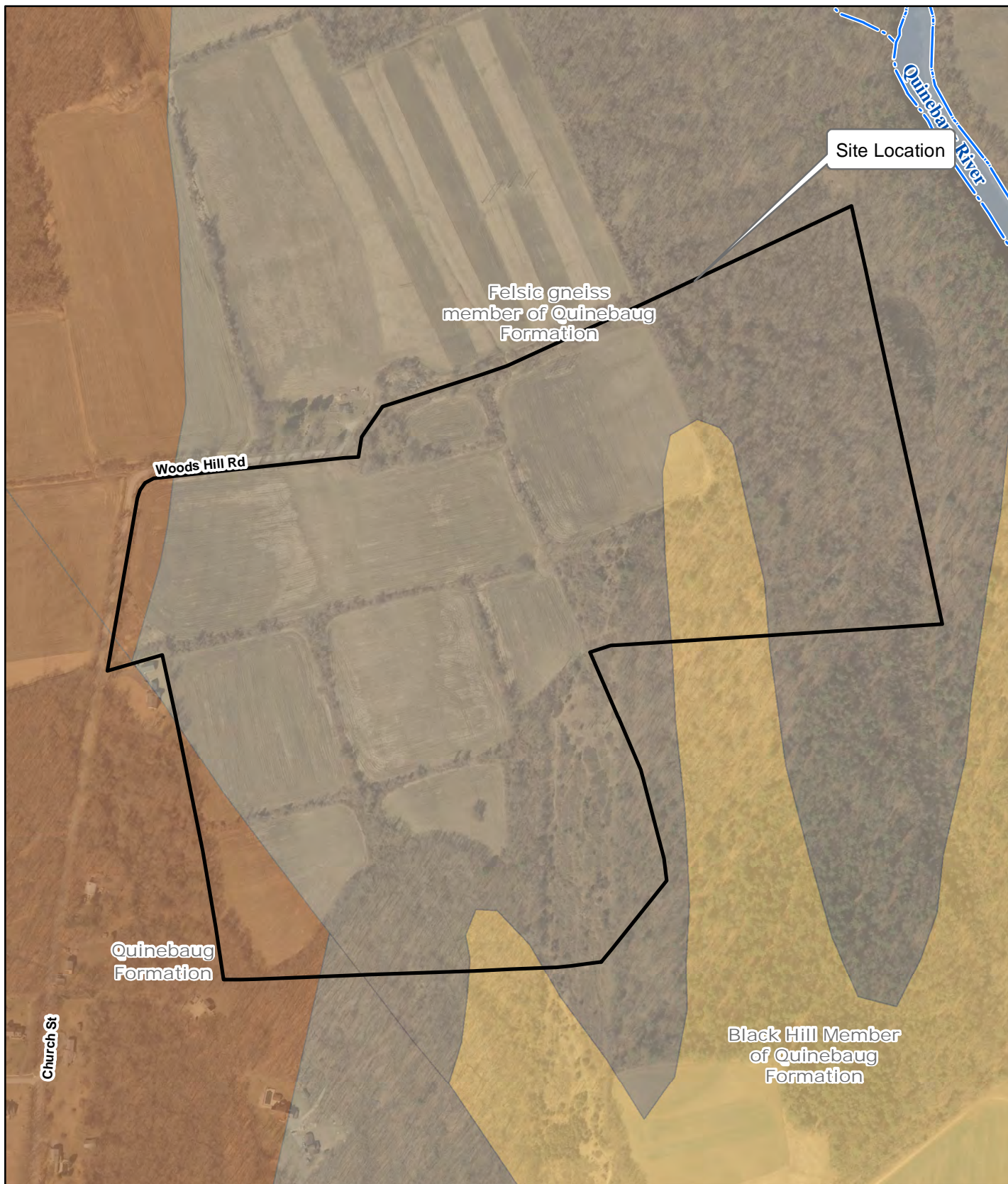
101 Woods Hill Road  
Pomfret, CT

January 2016

Source:  
GIS data layers displayed on this map were obtained from CTDEEP's data library (<http://www.ct.gov/deep>).  
Surficial Materials data was derived from the U.S Geological Survey Surficial Materials Map of Connecticut (Stone and others: 1992) and the Quaternary Geologic Map of Connecticut and Long Island Sound Basin (Stone and others: 2005). Bedrock Geology data was derived from the Bedrock Geological Map of Connecticut (Rodgers: 1985). Ortho Base Map: State of Connecticut 2012 aerial imagery with 1-ft ground resolution provided by CTECO





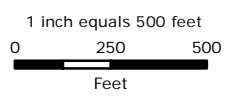


**LEGEND**

- Approximate Site Boundary
- Watercourse

- Bedrock Geology**
- Black Hill Member of Quinebaug Formation
  - Felsic gneiss member of Quinebaug Formation
  - Quinebaug Formation

Source:  
 GIS data layers displayed on this map were obtained from CTDEEP's data library (<http://www.ct.gov/deep>).  
 Surficial Materials data was derived from the U.S Geological Survey Surficial Materials Map of Connecticut (Stone and others: 1992) and the Quaternary Geologic Map of Connecticut and Long Island Sound Basin (Stone and others: 2005). Bedrock Geology data was derived from the Bedrock Geological Map of Connecticut (Rogers: 1985). Or the Base Map: State of Connecticut 2012 aerial imagery with 1-ft ground resolution provided by CTECO



**FIGURE 5  
 BEDROCK GEOLOGY MAP**

101 Woods Hill Road  
 Pomfret, CT

January 2016





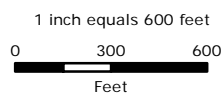


**LEGEND**

- |                                       |  |                     |
|---------------------------------------|--|---------------------|
| Approximate Site Boundary             | Watercourse                                | 100-Year Flood Zone |
| Final Adopted Aquifer Protection Area | Waterbody                                  | 500-Year Flood Zone |
| Final Aquifer Protection Area         | Natural Diversity Database Area (Dec 2014) | Floodway            |
| Preliminary Aquifer Protection Area   | Critical Habitat (Dec 2014)                | Municipal Boundary  |
| National Wetlands Inventory           |  |                     |
| CTDEEP Wetlands                       |  |                     |

**FIGURE 6  
ENVIRONMENTAL  
RESOURCES MAP**

101 Woods Hill Road  
Pomfret, CT

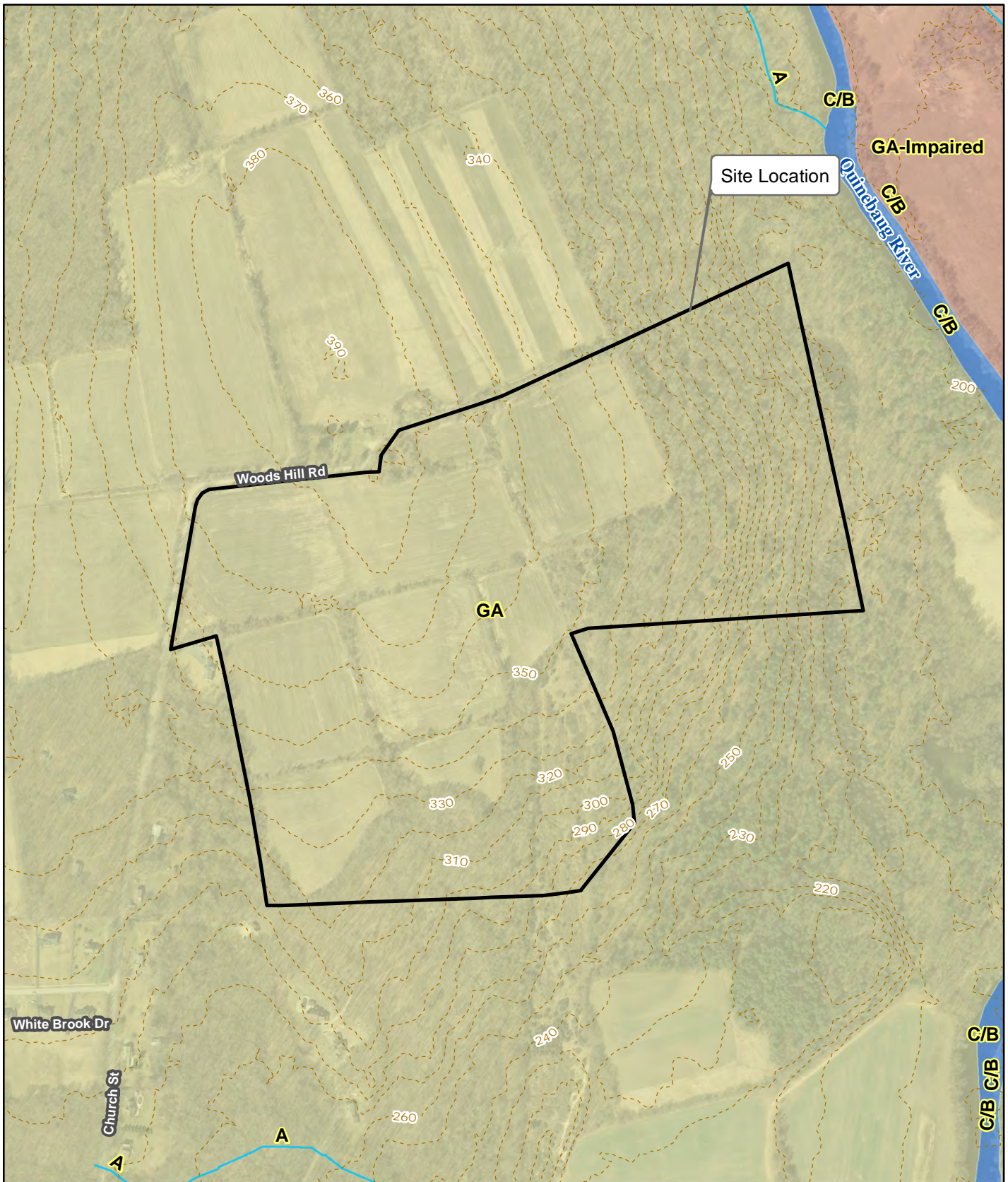


January 2016



Source:  
GIS data layers displayed on this map were obtained from CTDEEP's data library (<http://www.ct.gov/deep>).  
FEMA Flood Zones are maintained by FEMA. The data layers shown are the most recent publications.  
Ortho Base Map: State of Connecticut 2012 aerial imagery with 1-ft ground resolution provided by CTECO





**LEGEND**

- Approximate Site Boundary
- Area of Contribution to Public Supply Well
- Contour Line (10-foot)

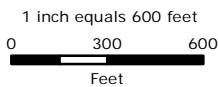
**Ground Water Quality**

- GA
- GAA, GAAs
- GB
- GC
- GA, GAA May be impaired

**Surface Water Quality**

- A
- AA
- B, B\*
- SA
- SB
- A
- AA
- B, B\*
- SA
- SB

Source:  
 GIS data layers displayed on this map were obtained from CTDEEP's data library (<http://www.ct.gov/deep>). Water Classifications are maintained and updated by CTDEEP. The data layers shown are the most recent publications.  
 Ortho Base Map: State of Connecticut 2012 aerial imagery with 1-foot ground resolution provided by CTECO



**FIGURE 7  
 WATER CLASSIFICATIONS  
 MAP**

101 Woods Hill Road  
 Pomfret, CT

January 2016







# Tighe & Bond

CURRENT OWNER		TOPO.	UTILITIES	STRT./ROAD	LOCATION	CURRENT ASSESSMENT	
CRISTINA JUANITA R & SHEILA S NAFI	Level	1 Paved	3 Rural			Description	Code
253 KILLINGLY AVE						FARM LAND	6-1
PUTNAM, CT 06260						OPN SPACE	6-3
Additional Owners:							
Other ID:		SUPPLEMENTAL DATA		ASSOC PID#		Assessed Value	
CENSUS 9025		490 PENALTY EXPIRED				12,680	
EASEMENTS		DEV RIGHTS				7,080	
ADD'L EASEME		COM/IND US					
10 MILL EXP		SURVEY #					
GIS ID: 00190500		DEV LOT #					

RECORD OF OWNERSHIP		BK-VOL/PAGE	SALE DATE	q/u	w/i	V	SALE PRICE	V.C.
CRISTINA JUANITA R & SHEILA S NABOZNY		0165/0210	11/30/2000	U			0	
KIMBALL HARVEY C ESTATE OF		0052/0299	05/27/1982	U				
Total:								

EXEMPTIONS		Amount	Code	Description	Number	Amount	Comm. Int.
Total:							

ASSESSING NEIGHBORHOOD		Street Index Name	Tracing	Batch
Total:				

2-10 ACRES SOLD TO 23 WOODS HILL RD FOR \$23,000

Appraised Bldg. Value (Card) 0  
 Appraised XF (B) Value (Bldg) 0  
 Appraised OB (L) Value (Bldg) 0  
 Appraised Land Value (Bldg) 0  
 Special Land Value 565,500  
 Total Appraised Parcel Value 565,500  
 Valuation Method: C  
 Adjustment: 0  
**Net Total Appraised Parcel Value 565,500**

BUILDING PERMIT RECORD		Permit ID	Issue Date	Type	Description	Amount	% Comp.	Date Comp.	Comments
VISIT/CHANGE HISTORY									
Date		09/06/2014	11/30/2009	03					
Cd.		BD	PH						
Change		12	11						
Review by Ass		EG	KT						
Measur+Listed									
Mapping									

LAND LINE VALUATION SECTION		Zone	D	Front	Depth	Units	Unit Price	I. Factor	S.A.	C. Factor	ST. Idx	Notes- Adj	S Adj Fact	Adj. Unit Price	Land Value
Total Card Land Units:				110.69 AC											565,500
Parcel Total Land Area:				110.69 AC											565,500

**VISION**

6/12  
POMFRET, CT

*This signature acknowledges a visit by a Data Collector or Assessor*

**APPRAISED VALUE SUMMARY**

**APPRAISED VALUE SUMMARY**

**LAND LINE VALUATION SECTION**

**BUILDING PERMIT RECORD**

CONSTRUCTION DETAIL		CONSTRUCTION DETAIL (CONTINUED)														
Element	Cd.	Ch.	Description													
Model	00		Vacant													
<b>MIXED USE</b>																
Code	7130	490 - Till D	Percentage 100													
<b>COST/MARKET VALUATION</b>																
Adj. Base Rate: 0.00																
AYB			0													
EYB			0													
Dep Code			0													
Remodel Rating			1													
Year Remodeled																
Dep %																
Functional Obslnc																
External Obslnc																
Cost Trend Factor																
Status																
% Complete																
Overall % Cond																
Apprais Val																
Dep % Ovr																
Dep Ovr Comment																
Misc Imp Ovr																
Misc Imp Ovr Comment																
Cost to Cure Ovr																
Cost to Cure Ovr Comment																
<b>OB-OUTBUILDING &amp; YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)</b>																
Code	Description	Sub	Sub Description	L/B	Units	Unit Price	Yr	Gde	Dp	Rt	Cnd	%Cnd	Apr. Value			
<b>BUILDING SUB-AREA SUMMARY SECTION</b>																
Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprec. Value										
<b>Ttl. Gross Liv/Lease Area:</b>													0	0	0	0

No Photo On Record



**Parcel Information:**

Report Generated: 10/19/2015 12:05:08 PM

**GIS ID:** CT-112-43-A-005.00

**Assessment:** \$19,760.00

**Owner Name:** CRISTINA JUANITA R & SHEILA S NABOZNY

**Appraisal:** \$565,500.00

**Street Address:** 101 WOODS HILL RD

**Mailing Address:** 253 KILLINGLY AVE

PUTNAM CT 06260

**Land:** 110.69

**Buildings:**

**Land Value:**

**Improvement Value:**

**Total Value:**

**Appraised**

\$565,500.00

\$0.00

\$565,500.00

**Assessed**

\$0.00

\$19,760.00

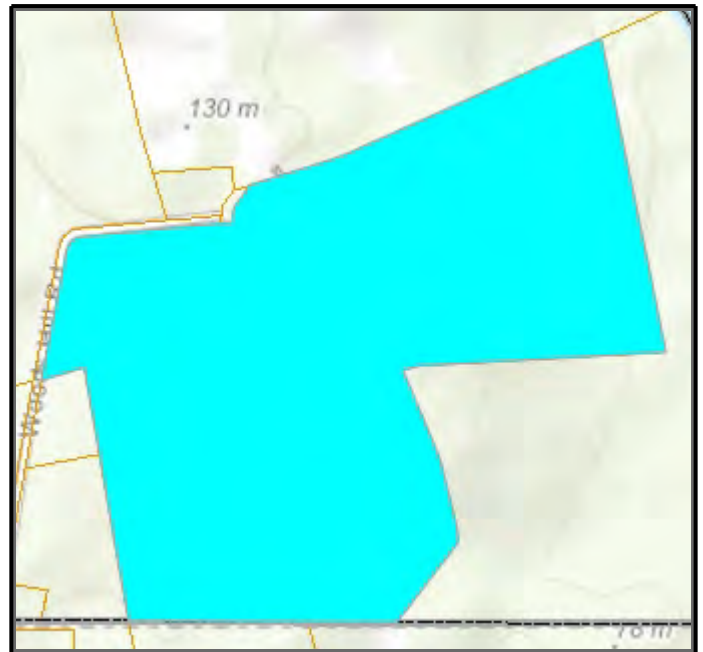
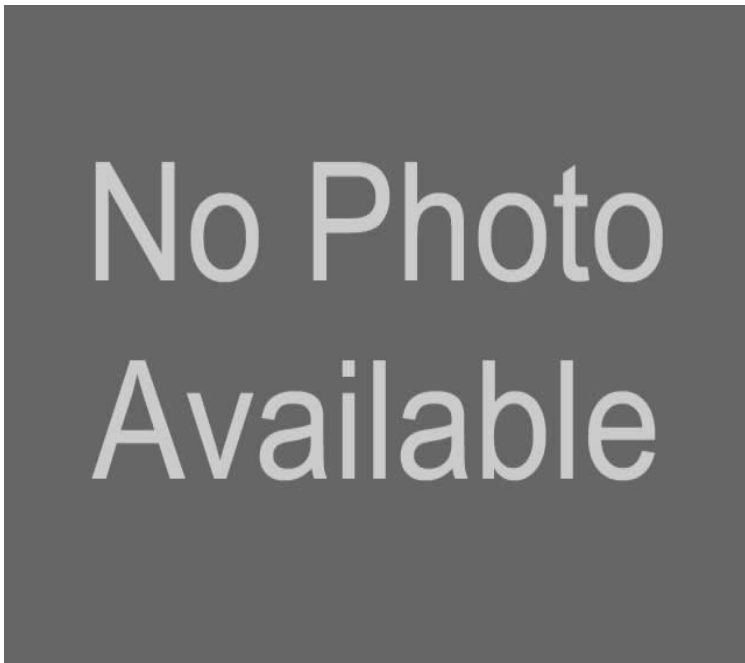
**Sale Date:**

**Sale Price:**

**Year Built:**

**Primary Structure Area:**

sq. ft.



Taxlot highlighted in blue



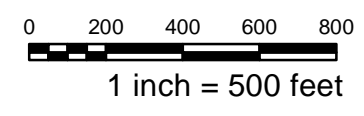
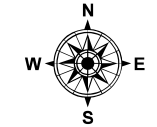


**LEGEND**

- Parcel Lines
- Parcel ROW Boundaries
- Electric Easement
- Gas Easement
- Telephone Easement
- Historic Parcel Lines
- Streams
- LAKE
- SWAMP
- Parcels

NOTE: The areas, boundaries, and dimensions shown on this tax map are derived from planimetric mapping, plans, and deeds of record, and are to be used for tax assessment purposes only and NOT FOR CONVEYANCE.

**TOWN OF POMFRET, CONNECTICUT**  
**March 26, 2013**  
**MAPS ARE FOR TAX PURPOSES ONLY**



Site: 101 Wood Hill Rd

Date Provided: 12-1-15

## Phase I Questionnaire

Per the ASTM E1527-13 Standard for Phase I Environmental Site Assessments, the following questionnaire is being provided to you because you are the Owner, are the User, or may have specialized knowledge about the site listed above. Please answer the questions to the best of your knowledge. If needed, please attach additional pages or information.

### Please fill out the following information about yourself:

Name: Sheila Nabozny + Juanita Cristina  
Company: n/a  
Years employed with the company: n/a  
Job title: Property Owner

### General Information

Site Name: Nabozny/Cristina Parcel - Pomfret

Address: 101 Woods Hill Rd, Pomfret, CT

General use of property: Agricultural

Site Contact: Juanita Cristina

Title: Property Owner

Phone No: 860-963-0628

Duration of time that site contact has been in this position:

Please provide additional site contacts knowledgeable on site activities

Name	Title	Phone	E-mail

### Site Information

Are you the current owner or tenant of this site? **Owner**

Are you aware of any previous environmental site assessments or remediation conducted at the site? If yes, please list activities conducted and dates. **None Known**

What is the age of the building(s) on the site? **N/A**

Please list all of the business(s) operated on the site. **Agricultural Use Only**

Please provide specifics about site utilities. Provide specifics about the type of utility and how long the service has been active. If there was a septic tank and leach field, please describe location. **None Known**

Are you aware of the current or historic use of underground storage tanks (USTs) on the site? If so, please describe. **None Known**

Size of UST (gallons)	Contents of UST	Year Installed	Year Removed

Are you aware of the current or historic use of aboveground storage tanks (ASTs) on the site? If so, please describe. **None Known**

Size of AST (gallons)	Contents of AST	Year Installed	Year Removed

Are you aware of the current or historic use of 55-gallon drums or any other storage media on the site? If so, please describe. **None Known**

Location of Drums	Contents of Drums	Location Stored	Number at location

Are you aware of any chemical or oil spills on the site? This includes, but is not limited to, gasoline, heating oil, diesel, and paint. If so please provide specifics in the table below. **None Known**

Date of Spill	Contents of Spill	Spill Location

**Regulatory Information**

What Regulatory Permits pertain to the site? **None Known**

Frequency of inspections by regulators (if any)? **N/A**

Is the key site contact aware of any environmental violations recorded at local, state or federal agencies? If yes, describe. Post & Pre-Construction? **None Known**

Is documentation of violations available for site from key site contact? **N/A**

**Process Information**

Has any of the following occurred at the property? (Circle Yes or No)-

- 1) On or after November 19, 1980, there was generated, except as the result of remediation of polluted soil, groundwater or sediment, more than one hundred kilograms of hazardous waste in any one month. **Yes** **No**
- 2) Hazardous waste generated at a different location was recycled, reclaimed, reused, stored, handled, treated, transported or disposed of. **Yes** **No**
- 3) The process of dry cleaning was conducted on or after May 1, 1967. **Yes** **No**
- 4) Furniture stripping was conducted on or after May 1, 1967. **Yes** **No**
- 5) A vehicle body repair facility was located on or after May 1, 1967. **Yes** **No**

**Hazardous Waste Generation**

Are there any manufacturing processes or activities involving hazardous materials conducted at the site? During Construction or Post-Construction? If so describe. **None Known**

Are there any incoming raw materials delivered to the site that may be classified as hazardous? During Construction or Post-Construction? If so describe. (Name, use, approximate quantity used yearly and provide applicable documentation with questionnaire) **None Known**

Are MSDS sheets available for review at the site? Y/N. If so where are they located and please provide copies with questionnaire) **N/A**



Are there any hazardous wastes generated and approximate quantity generated yearly. During Construction or Post-Construction? (Name, Approximate Quantity Generated Annually, Disposal Contractor and please provide applicable documentation with questionnaire) **None Known**

Is there anyone else at the site that would have relevant information pertaining to any generation of hazardous wastes at the site? Who? Where located? **No**

**Additional Questions**

Are there any environmental liens that are filed or recorded against the site?

**None Known**

Are there any activity and/or use limitations that are placed on the site or that have been filed or recorded against the site?

**None Known**

Town of Pomfret rezoned  
land commercial

Do you have any specialized knowledge or experience related to the property?

**Property used exclusively for agricultural purposes (hay/corn field)**

Does the purchase price being paid for this site reasonably reflect the fair market value of the site? If you conclude that there is a difference, have you considered whether the lower purchase/offer prices is because contamination is known or believed to be present at the site?

**Price Reflects Fair Market Value**

Are you aware of commonly known or reasonable ascertainable information about the site that would help Tighe & Bond identify conditions indicative of releases or threatened releases? **None Known**

Do you know specific chemicals that are present or once were present at the site?  
**None Known**

Do you know of spills or other chemical releases that have taken place at the site?  
**None Known**

Do you know of any environmental cleanups that have taken place at the site?  
**None Known**

Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the site?  
**None Known**

**(Please note: Any supporting documents such as MSDS, waste manifests, or site maps will be needed for completion of Phase I report)**

Juanita Cristina	
Site Contact: Print / Signature	Date 12-4-15

*Juanita Cristina*

RECORDED:

STATE OF CONNECTICUT  
COURT OF PROBATECERTIFICATE OF  
DEVISE, DESCENT  
OR DISTRIBUTIONPC-250 REV. 1/92  
(PRC-58)

#00906

*[File certificate with town clerk  
where real property is situated.]*

COURT OF PROBATE, DISTRICT OF	PUTNAM	DISTRICT NO.	116	DATE OF DEATH
ESTATE OF				December 27, 1999

HARVEY C. KIMBALL

, deceased.

Pursuant to C.G.S. Sec. 45a-450, this certifies that as appears from the records of this court, said deceased died on above written, and the following real property of the decedent is devised or distributed or set out or divided or descends to: *[Give name, place of residence, and share of distributee; give street address or lot number of real property, or if none, a brief description of the location. C.G.S. Sec. 45a-450.]*

TO: JUANITA R. CRISTINA of 253 Killingly Avenue, Putnam, Connecticut 06260, and

TO: SHEILA S. NABOZNY of 13 Wood Hill Road, Brooklyn, Connecticut 06260, the property described in Schedule A attached hereto.

SCHEDULE A - REAL ESTATE

101 Woods Hill Road, Pomfret: A certain tract or parcel of land located on Woods Hill Road in the Town of Pomfret, County of Windham and State of Connecticut, containing 114.40 acres, more or less, being those premises conveyed to Harvey C. Kimball by Warranty Deed of Charles L. Kimball dated October 31, 1936, and recorded in Pomfret Land Records, Vol. 31, Page 314.

23 Woods Hill Road, Pomfret: A certain tract or parcel of land located on Woods Hill Road in the Town of Pomfret, County of Windham and State of Connecticut, containing 9.50 acres, more or less, being those premises conveyed to Harvey C. Kimball by Warranty Deed of Michael Harrington and Vera Harrington dated February 24, 1940, and recorded in Pomfret Land Records, Vol. 33, Page 82.



For a more particular description, reference should be made to the records of said probate court.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seal of the court on this

30th day of October

2000.

FOR TOWN CLERK'S USE ONLY

FOR COURT USE ONLY  
Judge, Asst. Clerk

Original to:

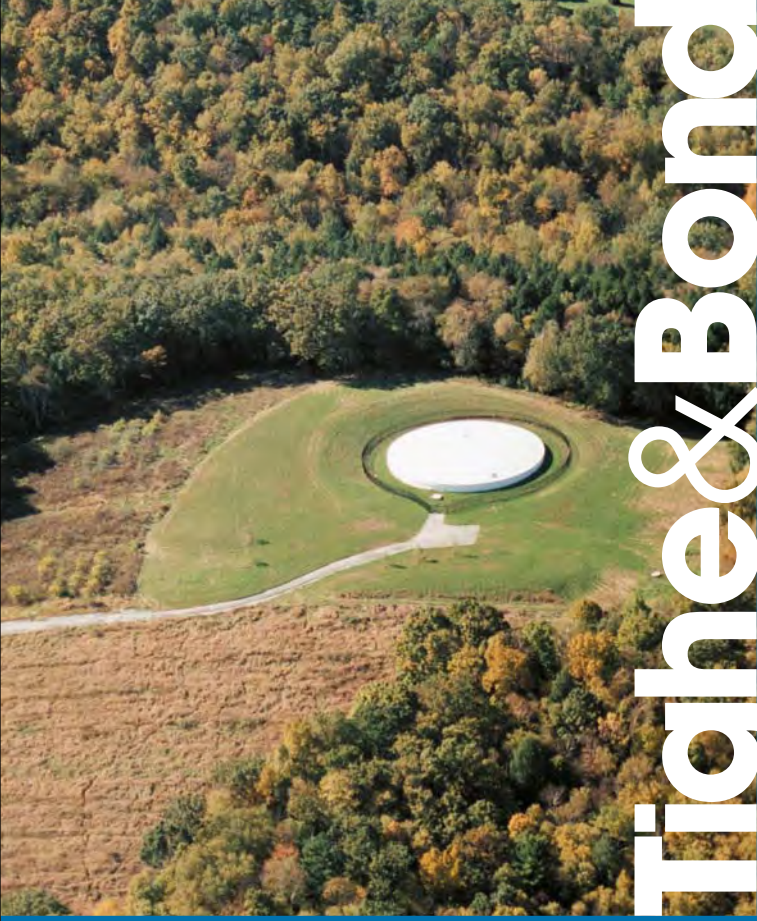
Date Sent:

CERTIFICATE OF DEVISE, DESCENT OR DISTRIBUTION  
PC-250

RECEIVED: 11/30/00 11:00 P.M. A.M.

  
TOWN CLERK OF POMFRET, CT





# Tighe & Bond



Client: RES America Developments, Inc.

Job Number: R-0298

Site: 101 Woods Hill Road, Pomfret, CT

<b>Photograph No.:</b> 1	<b>Date:</b> 11/4/2015
<b>Description:</b> Cleared agricultural land, view west	
	


<b>Photograph No.:</b> 2	<b>Date:</b> 11/4/2015
<b>Description:</b> Cleared agricultural land, view north	
	

Client: RES America Developments, Inc.

Job Number: R-0298

Site: 101 Woods Hill Road, Pomfret, CT

<b>Photograph No.:</b> 3	<b>Date:</b> 11/4/2015
<b>Description:</b> Connecticut Light & Power transmission line access road, view south	
	

<b>Photograph No.:</b> 4	<b>Date:</b> 11/4/2015
<b>Description:</b> Connecticut Light & Power transmission line utility poles, view north	
	



Client: RES America Developments, Inc.

Job Number: R-0298

Site: 101 Woods Hill Road, Pomfret, CT

Photograph No.: 5 Date: 11/4/2015

Description: Agricultural land, corn stalks, Connecticut Light & Power transmission line, view south-east



Photograph No.: 6 Date: 11/4/2015

Description: Agricultural land, corn stalks, Connecticut Light & Power transmission line, view north-west



Client: RES America Developments, Inc.

Job Number: R-0298

Site: 101 Woods Hill Road, Pomfret, CT

Photograph No.: 7 Date: 11/4/2015

Description: Tarp shelter, stone wall, tires, fire pit, in forested land, south end of site, view northeast



Photograph No.: 8 Date: 11/4/2015

Description: Fire pit in forested land, south end of site, view northeast





Client: RES America Developments, Inc.

Job Number: R-0298

Site: 101 Woods Hill Road, Pomfret, CT

<b>Photograph No.:</b> 9	<b>Date:</b> 11/4/2015
<b>Description:</b> Eroded gully along the southern tree line on the eastern agricultural land, view west	
	

<b>Photograph No.:</b> 10	<b>Date:</b> 11/4/2015
<b>Description:</b> Forested area, northeast side of the site, view south	
	



Client: RES America Developments, Inc.

Job Number: R-0298

Site: 101 Woods Hill Road, Pomfret, CT

<b>Photograph No.:</b> 11	<b>Date:</b> 11/4/2015
<b>Description:</b> Northern adjacent property, residential property, view north	
	

<b>Photograph No.:</b> 12	<b>Date:</b> 11/4/2015
<b>Description:</b> Northern adjacent property, former wooden sheds, view north	
	



# Tighe & Bond

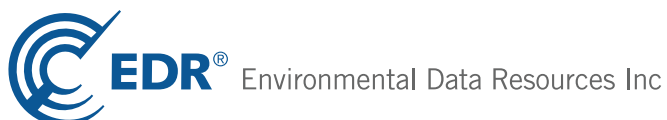
**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.2s

October 19, 2015

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	64
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting SSURGO Soil Map .....	A-5
Physical Setting Source Map .....	A-18
Physical Setting Source Map Findings .....	A-20
Physical Setting Source Records Searched .....	PSGR-1

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

### Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

101 WOODS HILL ROAD  
POMFRET, CT 06259

#### COORDINATES

Latitude (North): 41.8309000 - 41° 49' 51.24"  
Longitude (West): 71.9209000 - 71° 55' 15.24"  
Universal Transverse Mercator: Zone 19  
UTM X (Meters): 257440.2  
UTM Y (Meters): 4634913.5  
Elevation: 364 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5642109 DANIELSON, CT  
Version Date: 2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120721  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
101 WOODS HILL ROAD  
POMFRET, CT 06259

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	MAIORINO RESIDENCE	426 CHURCH	CT LUST, CT CPCS	Lower	868, 0.164, South
<a href="#">A2</a>	MAIORINO RESIDENCE	426 CHURCH STREET	CT CPCS	Lower	868, 0.164, South
<a href="#">3</a>	ROGERS CORP	ONE TECHNOLOGY DR	CERC-NFRAP, CORRACTS, RCRA-TSDF, RCRA-LQG, US FIN	Lower	2162, 0.409, NNE
<a href="#">4</a>	CT DOT SEARLES ROAD	POMFRET ROAD	CERCLIS, CT SHWS, CT SDADB, CT CPCS	Lower	2489, 0.471, SW

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Federal RCRA generators list***

RCRA-SQG..... RCRA - Small Quantity Generators  
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State and tribal landfill and/or solid waste disposal site lists***

CT SWF/LF..... List of Landfills/Transfer Stations

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing



## EXECUTIVE SUMMARY

CT UST..... Underground Storage Tank Data  
CT AST..... Marine Terminals and Tank Information  
INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

CT ENG CONTROLS..... Engineering Controls Listing  
CT AUL..... ELUR Sites

### ***State and tribal voluntary cleanup sites***

CT VCP..... Voluntary Remediation Sites  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

CT BROWNFIELDS..... Brownfields Inventory

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

CT SWRCY..... Recycling Facilities  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
ODI..... Open Dump Inventory

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... National Clandestine Laboratory Register  
CT CDL..... Clandestine Drug Lab Listing  
US CDL..... Clandestine Drug Labs

#### ***Local Land Records***

CT PROPERTY..... Property Transfer Filings  
CT LIENS..... Environmental Liens Listing  
LIENS 2..... CERCLA Lien Information

#### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System  
CT SPILLS..... Oil & Chemical Spill Database  
CT SPILLS 90..... SPILLS 90 data from FirstSearch

#### ***Other Ascertainable Records***

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated  
FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites

## EXECUTIVE SUMMARY

SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
EPA WATCH LIST.....	EPA WATCH LIST
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US MINES.....	Mines Master Index File
FINDS.....	Facility Index System/Facility Registry System
CT AIRS.....	Permitted Air Sources Listing
CT DRYCLEANERS.....	Drycleaner Facilities
CT LEAD.....	Lead Inspection Database
CT LWDS.....	Connecticut Leachate and Wastewater Discharge Sites
CT MANIFEST.....	Hazardous Waste Manifest Data
CT NPDES.....	Wastewater Permit Listing
CT SEH.....	List of Significant Environmental Hazards Report to DEEP

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat.....	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners.....	EDR Exclusive Historic Dry Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

CT RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
CT RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

## EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### **STANDARD ENVIRONMENTAL RECORDS**

#### ***Federal CERCLIS list***

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>CT DOT SEARLES ROAD</i></b>	<b><i>POMFRET ROAD</i></b>	<b><i>SW 1/4 - 1/2 (0.471 mi.)</i></b>	<b><i>4</i></b>	<b><i>59</i></b>

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>ROGERS CORP</i></b>	<b><i>ONE TECHNOLOGY DR</i></b>	<b><i>NNE 1/4 - 1/2 (0.409 mi.)</i></b>	<b><i>3</i></b>	<b><i>14</i></b>

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 06/09/2015 has revealed that there is 1

## EXECUTIVE SUMMARY

CORRACTS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ROGERS CORP</b>	<b>ONE TECHNOLOGY DR</b>	<b>NNE 1/4 - 1/2 (0.409 mi.)</b>	<b>3</b>	<b>14</b>

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 06/09/2015 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ROGERS CORP</b>	<b>ONE TECHNOLOGY DR</b>	<b>NNE 1/4 - 1/2 (0.409 mi.)</b>	<b>3</b>	<b>14</b>

### ***State- and tribal - equivalent CERCLIS***

CT SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's Inventory of Hazardous Disposal Sites.

A review of the CT SHWS list, as provided by EDR, and dated 04/23/2010 has revealed that there is 1 CT SHWS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CT DOT SEARLES ROAD</b> State ID: 348 EPA ID: CTD982199150	<b>POMFRET ROAD</b>	<b>SW 1/4 - 1/2 (0.471 mi.)</b>	<b>4</b>	<b>59</b>

CT SDADB: Site Discovery and Assessment Database.

A review of the CT SDADB list, as provided by EDR, and dated 04/23/2010 has revealed that there is 1 CT SDADB site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CT DOT SEARLES ROAD</b> Facility Id: 348	<b>POMFRET ROAD</b>	<b>SW 1/4 - 1/2 (0.471 mi.)</b>	<b>4</b>	<b>59</b>



## EXECUTIVE SUMMARY

### ***State and tribal leaking storage tank lists***

CT LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's Leaking Underground Storage Tank List.

A review of the CT LUST list, as provided by EDR, and dated 07/24/2015 has revealed that there is 1 CT LUST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MAIORINO RESIDENCE</b> Lust Status: 1 Lust Status: 2 LUST Id: 45210 LUST Id: 29958	<b>426 CHURCH</b>	<b>S 1/8 - 1/4 (0.164 mi.)</b>	<b>A1</b>	<b>8</b>

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Other Ascertainable Records***

CT CPCS: A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

A review of the CT CPCS list, as provided by EDR, and dated 06/15/2015 has revealed that there are 3 CT CPCS sites within approximately 0.5 miles of the target property.

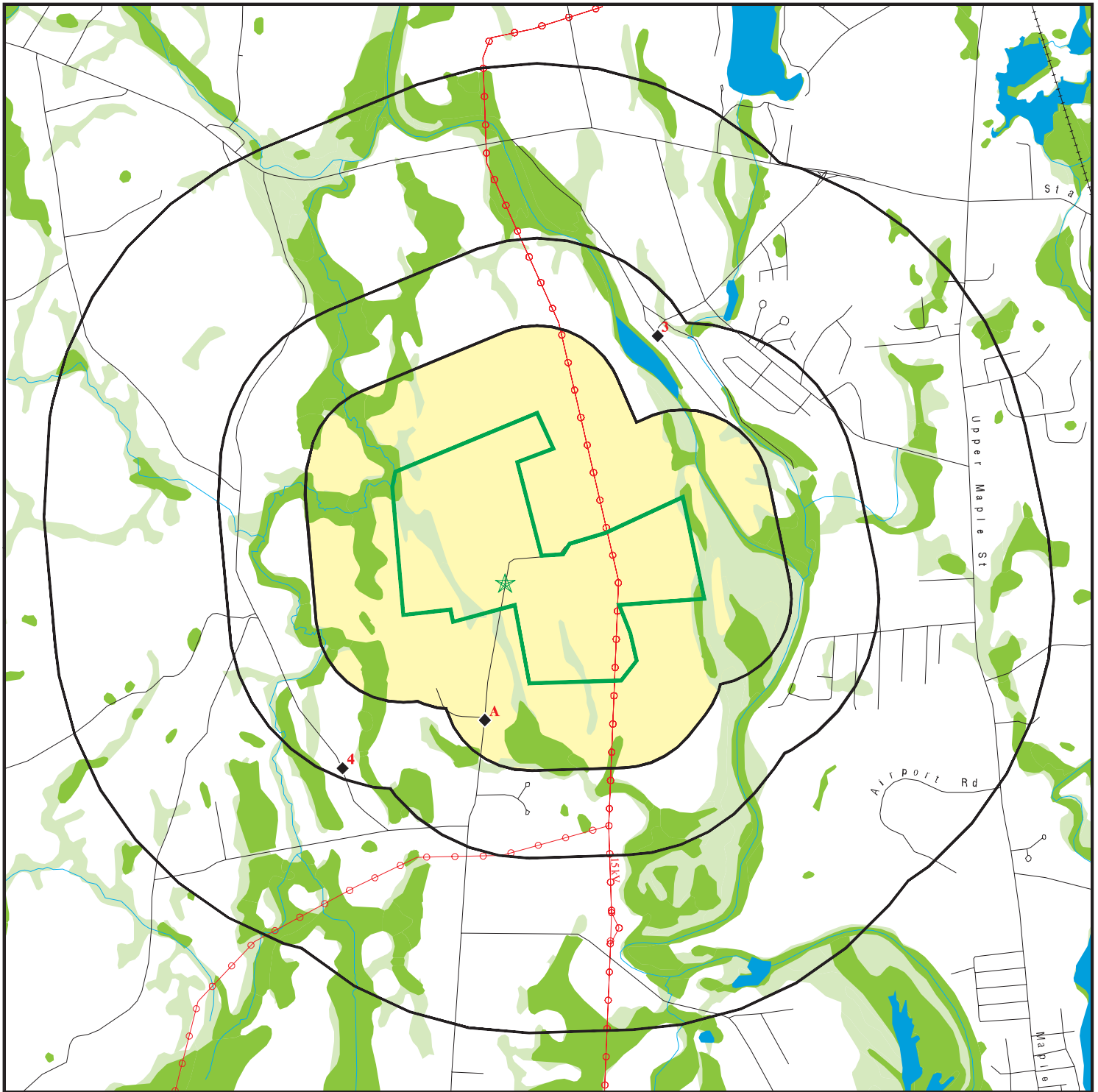
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MAIORINO RESIDENCE</b> Lust Status: Investigation	<b>426 CHURCH</b>	<b>S 1/8 - 1/4 (0.164 mi.)</b>	<b>A1</b>	<b>8</b>
<b>MAIORINO RESIDENCE</b> Lust Status: Pending	<b>426 CHURCH STREET</b>	<b>S 1/8 - 1/4 (0.164 mi.)</b>	<b>A2</b>	<b>13</b>
<b>CT DOT SEARLES ROAD</b>	<b>POMFRET ROAD</b>	<b>SW 1/4 - 1/2 (0.471 mi.)</b>	<b>4</b>	<b>59</b>











## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

<u>Site Name</u>	<u>Database(s)</u>
BOUDREAU WELDING	CT LUST, CT CPCS
WILLIAM PRYM CO. INC.	CT SHWS, CT SDADB, CT CPCS
DAYVILLE SHELL 136299	CT LUST, CT CPCS
ROGERS CORP	CT VCP, CT CPCS
ROGERS CORP	CT LUST, CT SPILLS
CT DOT POMFRET (HART # 33)	CT VCP

# OVERVIEW MAP - 4441785.2S



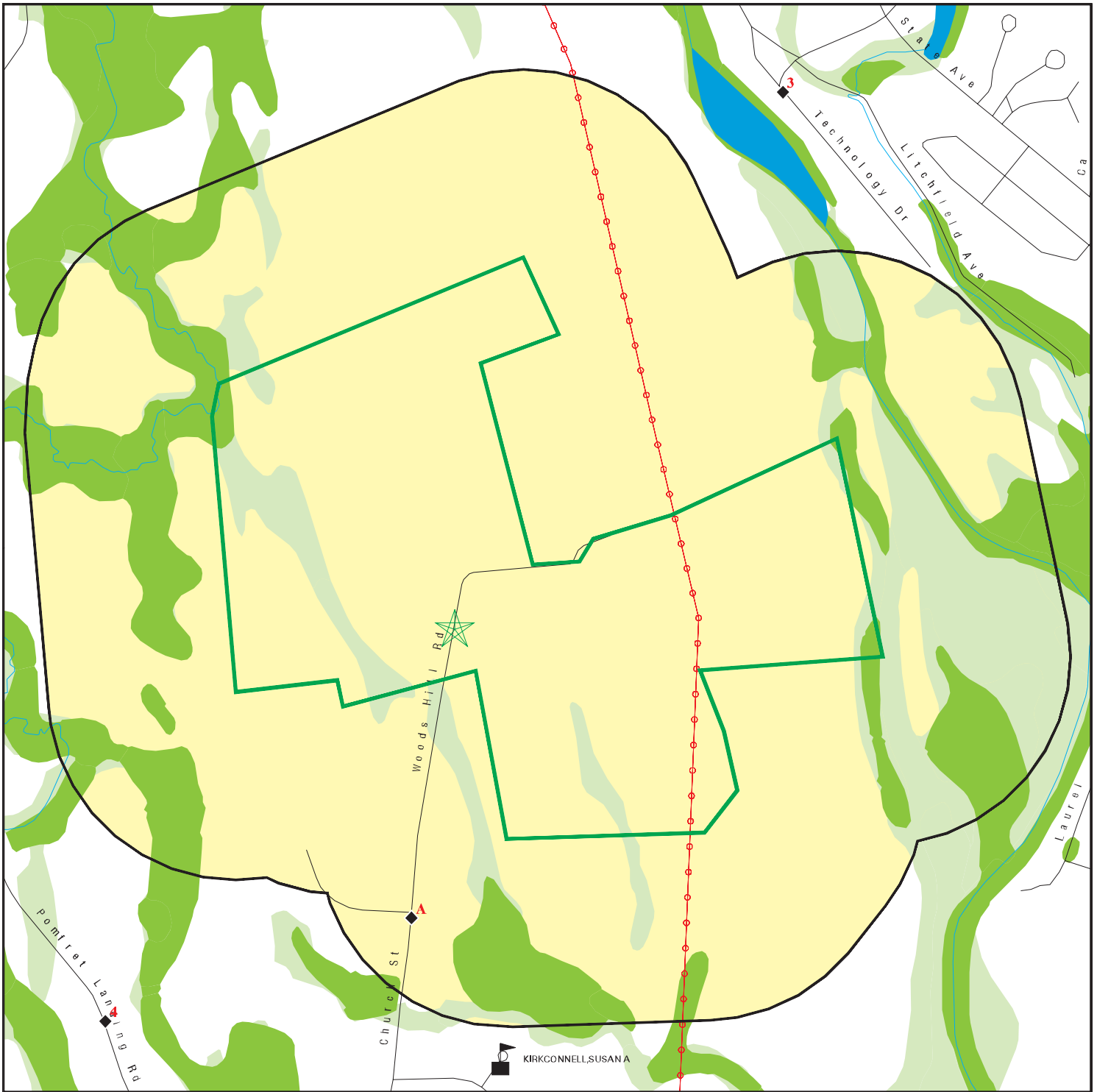
-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  National Wetland Inventory
-  State Wetlands








This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Nabozny Solar Site  
 ADDRESS: 101 Woods Hill Road  
 Pomfret CT 06259  
 LAT/LONG: 41.8309 / 71.9209

CLIENT: Tighe & Bond  
 CONTACT: Samantha Avis  
 INQUIRY #: 4441785.2s  
 DATE: October 19, 2015 7:15 pm

# DETAIL MAP - 4441785.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  National Wetland Inventory
-  State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Nabozny Solar Site  
 ADDRESS: 101 Woods Hill Road  
 Pomfret CT 06259  
 LAT/LONG: 41.8309 / 71.9209

CLIENT: Tighe & Bond  
 CONTACT: Samantha Avis  
 INQUIRY #: 4441785.2s  
 DATE: October 19, 2015 7:16 pm



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		0	0	1	NR	NR	1
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	0	1	NR	NR	1
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	1	0	NR	1
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
CT SHWS	1.000		0	0	1	0	NR	1
CT SDADB	0.500		0	0	1	NR	NR	1
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
CT SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
CT LUST	0.500		0	1	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CT UST	0.250		0	0	NR	NR	NR	0
CT AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
CT ENG CONTROLS	0.500		0	0	0	NR	NR	0
CT AUL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
CT VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
CT BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
CT SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CT CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
CT PROPERTY	TP		NR	NR	NR	NR	NR	0
CT LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
CT SPILLS	TP		NR	NR	NR	NR	NR	0
CT SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
CT AIRS	TP		NR	NR	NR	NR	NR	0
CT CPCS	0.500		0	2	1	NR	NR	3
CT DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CT ENF	TP		NR	NR	NR	NR	NR	0
CT Financial Assurance	TP		NR	NR	NR	NR	NR	0
CT LEAD	TP		NR	NR	NR	NR	NR	0
CT LWDS	0.250		0	0	NR	NR	NR	0
CT MANIFEST	0.250		0	0	NR	NR	NR	0
NJ MANIFEST	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
RI MANIFEST	0.250		0	0	NR	NR	NR	0
CT NPDES	TP		NR	NR	NR	NR	NR	0
CT SEH	0.500		0	0	0	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

CT RGA HWS	TP		NR	NR	NR	NR	NR	0
------------	----	--	----	----	----	----	----	---

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
CT RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	3	7	0	0	10

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**A1 MAIORINO RESIDENCE**  
**South 426 CHURCH**  
**1/8-1/4 BROOKLYN, CT 06234**  
**0.164 mi.**  
**868 ft. Site 1 of 2 in cluster A**

**CT LUST S102571269**  
**CT CPCS N/A**

**Relative:**  
**Lower**

**LUST:**  
LUST Id: 0  
UST Facility Id: 0  
LUST Case Id: 45210  
Lust Status: Pending  
Processing Status: continuing excavation by Shire  
EPA Reportable: False  
Motor Fuel: False  
Diesel: False  
Gasoline: False  
Other: False  
Other Release: Not reported  
No Release: False  
Leak: False  
Tank: False  
Piping: False  
Overfill: False  
Removal: False  
Incident Date: 03/17/1997  
Entry Date: Not reported  
Site Case Id: Not reported  
UST Site Id: 0  
Cost Recovery Spill Case #: 0  
Old SITS Number: 0  
Case Log Id: 388  
Monthly Report Id: 0  
UST Owner Id: 0  
LUST Owner Id: AG  
UST Event Id: 0  
Contact Info: Aaron Green LUST Program  
Contact EMail: Not reported  
Site Contact City,St,Zip: UNKNOWN  
2nd Contact: Not reported  
2nd Contact EMail: Not reported  
2nd Contact Address: Not reported  
2nd Contact City,St,Zip: UNKNOWN  
2nd Contact Address 2: Not reported  
2nd Contact City 2: Not reported  
2nd Contact Phone Number: Not reported  
2nd Contact Fax Number: Not reported  
2nd Contact Type: Not reported  
Facility City Num: 19  
Site Contact: Not reported  
Site Contact Address: Not reported  
Site Contact Add 2: Not reported  
Site Contact City 2: Not reported  
Site Contact Phone: Not reported  
Site Contact Fax: Not reported  
Site Contact Type: Not reported  
Department Contact 1: Not reported  
Department Contact 2: Not reported  
Referral Source: OCSR 3/27/97  
Offsite Source: False

**Actual:**  
**295 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Date Referred: 1997-03-27 00:00:00  
Emergency: False  
Private Heating Fuel: True  
Commercial Heating Fuel: False  
Commercial HF < 2100 Gal.: False  
Commercial HF > 2100 Gal.: False  
Commercial HF - Size Unk: False  
No LUST Site: False  
Cost Recvry Prgm Candidate: False  
OCSR Complete: False  
Follow Up Flag: False  
Alternate Water Supply: False  
Relocation: False  
Responsible Party: False  
Responsible EMail: Not reported  
Resp Party Name: Not reported  
Resp Party Address: Not reported  
Resp Party City,St,Zip: Not reported  
Resp Party Town Number: UNKNOWN  
Resp Party Phone: Not reported  
Resp Party Fax: Not reported  
Resp Party Name 2: Not reported  
Resp Party Address 2: Not reported  
Resp Party Phone 2: Not reported  
Investigator Id: 20  
Follow Update: Not reported  
Area Lextent: Not reported  
Annual Precipitation: Not reported  
Affected Population: Not reported  
Population Setting: Not reported  
Ground Water Direction: Not reported  
Ground Water Gradient: Not reported  
Hydro Basin: Not reported  
Drastic: Not reported  
Geo Setting: Not reported  
Ground Water Classification: Not reported  
Receptor: Not reported  
Ground Water Flow Direction: Not reported  
Ground Water Depth: Not reported  
Areas Of Concern: Not reported  
Free Product Inches: Not reported  
Fund Date: Not reported  
Fund Planned: No  
Fund Obligated: No  
Fund Outlaid: No  
Fund Judgment: No  
Fund Recovered: No  
Cellar Borings: False  
Install Micro Wells: False  
Ground Water Sample: False  
Soil Sample: True  
Soil Gas: False  
Site Inspect: False  
Soil Excavate: True  
Geo Probe: False  
Survey: False  
Potable Well Sample: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	+ - 500 gal. #2 lost to soil
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	+ - 500 gal. #2 lost to soil
Running Comments:	tank removed previously, lines not removed, leak via lines to grave, soil & septic system removed
Work Performed:	excavate soil
LUST Id:	1849
UST Facility Id:	Not reported
LUST Case Id:	29958
Lust Status:	Investigation
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Overfill: False  
Removal: False  
Incident Date: 03/17/1997  
Entry Date: Not reported  
Site Case Id: Not reported  
UST Site Id: Not reported  
Cost Recovery Spill Case #: Not reported  
Old SITS Number: Not reported  
Case Log Id: Not reported  
Monthly Report Id: 0  
UST Owner Id: Not reported  
LUST Owner Id: Not reported  
UST Event Id: 1848  
Contact Info: Not reported  
Contact EMail: Not reported  
Site Contact City,St,Zip: UNKNOWN  
2nd Contact: Not reported  
2nd Contact EMail: Not reported  
2nd Contact Address: Not reported  
2nd Contact City,St,Zip: UNKNOWN  
2nd Contact Address 2: Not reported  
2nd Contact City 2: Not reported  
2nd Contact Phone Number: Not reported  
2nd Contact Fax Number: Not reported  
2nd Contact Type: Not reported  
Facility City Num: 19  
Site Contact: Not reported  
Site Contact Address: Not reported  
Site Contact Add 2: Not reported  
Site Contact City 2: Not reported  
Site Contact Phone: Not reported  
Site Contact Fax: Not reported  
Site Contact Type: Not reported  
Department Contact 1: Not reported  
Department Contact 2: Not reported  
Referral Source: Not reported  
Offsite Source: False  
Date Referred: Not reported  
Emergency: False  
Private Heating Fuel: True  
Commercial Heating Fuel: False  
Commercial HF < 2100 Gal.: False  
Commercial HF > 2100 Gal.: False  
Commercial HF - Size Unk: False  
No LUST Site: False  
Cost Recvry Prgm Candidate: False  
OCSR Complete: False  
Follow Up Flag: False  
Alternate Water Supply: False  
Relocation: False  
Responsible Party: False  
Responsible EMail: Not reported  
Resp Party Name: Not reported  
Resp Party Address: Not reported  
Resp Party City,St,Zip: Not reported  
Resp Party Town Number: UNKNOWN  
Resp Party Phone: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	20
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAIORINO RESIDENCE (Continued)**

**S102571269**

Rem Sys Install Date: Not reported  
Closure Date: Not reported  
Rem Sys Monitoring Rpt: False  
Qrtly Gwater Mon Rpts: False  
Closure Req Rpt: False  
DEP Closure Letter: False  
Referred To: Not reported  
No Wells: Not reported  
Lph Wells: Not reported  
User Stamp: Not reported  
Date Stamp: Not reported  
Correspondence: Action: Issued: Received:2/17/1999status date is date of data cleanup  
Environmental Impact: Not reported  
FollowUp: Not reported  
GW Comments: Not reported  
Location Desc: Not reported  
NOV Comments: Not reported  
Release Desc: Not reported  
Running Comments: tank removed previously, lines not removed, leak via lines to grave,  
soil & septic system removed  
Work Performed: Not reported

**CPCS:**

Site Type: LUST  
Lust Status code: 2  
Lust Status: Investigation  
PTP Form: Not reported  
Program: Not reported  
Comments: Tank Removed Previously, Lines Not Removed, Leak Via Lines To Grave,  
Soil & Septic System Removed  
Site Type Definition: Leaking Underground Storage Tanks Investigation

**A2**  
**South**  
**1/8-1/4**  
**0.164 mi.**  
**868 ft.**

**MAIORINO RESIDENCE**  
**426 CHURCH STREET**  
**BROOKLYN, CT 06234**  
**Site 2 of 2 in cluster A**

**CT CPCS S105738870**  
**N/A**

**Relative:**  
**Lower**

**CPCS:**

Site Type: LUST  
Lust Status code: 1  
Lust Status: Pending  
PTP Form: Not reported  
Program: Not reported  
Comments: Not reported  
Site Type Definition: Leaking Underground Storage Tanks Pending

**Actual:**  
**295 ft.**

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**3**  
**NNE**  
**1/4-1/2**  
**0.409 mi.**  
**2162 ft.**

**ROGERS CORP**  
**ONE TECHNOLOGY DR**  
**ROGERS, CT 06263**

**CERC-NFRAP** 1000217500  
**CORRACTS** CTD001141167  
**RCRA-TSDF**  
**RCRA-LQG**  
**US FIN ASSUR**  
**2020 COR ACTION**  
**US AIRS**  
**CT ENF**  
**CT Financial Assurance**  
**RI MANIFEST**  
**NY MANIFEST**  
**NJ MANIFEST**

**Relative:**  
**Lower**

**Actual:**  
**230 ft.**

**CERC-NFRAP:**

Site ID: 0102017  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: Deferred to RCRA

**CERCLIS-NFRAP Site Contact Details:**

Contact Sequence ID: 13326151.00000  
Person ID: 13004278.00000

**CERCLIS-NFRAP Site Alias Name(s):**

Alias Name: ROGERS CORP  
Alias Address: Not reported  
WINDHAM, CT

**Program Priority:**

Description: Environmental Justice Indicator

**CERCLIS-NFRAP Assessment History:**

Action: DISCOVERY  
Date Started: / /  
Date Completed: 07/12/85  
Priority Level: Not reported

Action: SITE INSPECTION  
Date Started: / /  
Date Completed: 01/19/90  
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 01/25/96  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 03/25/86  
Priority Level: Low priority for further assessment

**CORRACTS:**

EPA ID: CTD001141167  
EPA Region: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Area Name: ENTIRE FACILITY  
Actual Date: 19940503  
Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 19970805  
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 19970805  
Action: CA750IN - Migration of Contaminated Groundwater under Control, More information is needed to make a determination  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 19940411  
Action: CA050RF - RFA Completed, Assessment was an RFA  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 19980515  
Action: CA100 - RFI Imposition  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing Research and Development in the Physical, Engineering, and Life



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Sciences  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 20040421  
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing  
Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: 20040930  
Schedule end date: Not reported

EPA ID: CTD001141167  
EPA Region: 1  
Area Name: ENTIRE FACILITY  
Actual Date: 20040421  
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified  
NAICS Code(s): 326113 54171  
Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing  
Research and Development in the Physical, Engineering, and Life Sciences  
Original schedule date: 20040930  
Schedule end date: Not reported

**RCRA-TSDF:**

Date form received by agency: 02/19/2014  
Facility name: ROGERS CORP  
Facility address: ONE TECHNOLOGY DR  
ROGERS, CT 06263  
EPA ID: CTD001141167  
Contact: MICHAL J WERBECKI  
Contact address: ONE TECHNOLOGY DR  
ROGERS, CT 06263  
Contact country: US  
Contact telephone: (860) 779-4765  
Contact email: MICHAL.WERBECKI@ROGERSCORPORATION.COM  
EPA Region: 01  
Land type: Private  
Classification: TSDF  
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: ROGERS CORP  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 05/15/1935  
Owner/Op end date: Not reported

Owner/operator name: ROGERS CORP  
Owner/operator address: TECHNOLOGY DR  
ROGERS, CT 06263  
Owner/operator country: US  
Owner/operator telephone: (860) 774-9605  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 05/15/1935  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: Yes  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D003  
. Waste name: REACTIVE WASTE

. Waste code: D008  
. Waste name: LEAD

. Waste code: D009  
. Waste name: MERCURY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste code: D011
- . Waste name: SILVER
  
- . Waste code: D022
- . Waste name: CHLOROFORM
  
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: LABP
- . Waste name: LAB PACK
  
- . Waste code: U044
- . Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-
  
- . Waste code: U159
- . Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)
  
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE
  
- . Waste code: U223
- . Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)
  
- . Waste code: U228
- . Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE
  
- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Historical Generators:

Date form received by agency: 02/23/2012

Site name: ROGERS CORP ROGERS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D003  
. Waste name: REACTIVE WASTE

. Waste code: D008  
. Waste name: LEAD

. Waste code: D009  
. Waste name: MERCURY

. Waste code: D011  
. Waste name: SILVER

. Waste code: D018  
. Waste name: BENZENE

. Waste code: D035  
. Waste name: METHYL ETHYL KETONE

. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040  
. Waste name: TRICHLORETHYLENE

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: LABP  
. Waste name: LAB PACK

. Waste code: U080



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
- . Waste code: U159
- . Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE
- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 05/06/2010

Site name: ROGERS CORP

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
- . Waste code: D003
- . Waste name: REACTIVE WASTE
- . Waste code: D008
- . Waste name: LEAD
- . Waste code: D009
- . Waste name: MERCURY
- . Waste code: D011
- . Waste name: SILVER
- . Waste code: D018
- . Waste name: BENZENE
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE
- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: LABP
- . Waste name: LAB PACK
  
- . Waste code: P098
- . Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
  
- . Waste code: U159
- . Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)
  
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE
  
- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)
  
- Date form received by agency: 02/25/2008
- Site name: ROGERS CORP
- Classification: Large Quantity Generator
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: LABP  
. Waste name: LAB PACK

Date form received by agency: 02/23/2006  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D003  
. Waste name: REACTIVE WASTE

. Waste code: D005  
. Waste name: BARIUM

. Waste code: D009  
. Waste name: MERCURY

. Waste code: D035  
. Waste name: METHYL ETHYL KETONE

. Waste code: F002  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: LABP
- . Waste name: LAB PACK
  
- . Waste code: P098
- . Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
  
- . Waste code: U002
- . Waste name: 2-PROPANONE (I) (OR) ACETONE (I)
  
- . Waste code: U154
- . Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

Date form received by agency: 03/03/2004

Site name: ROGERS CORP

Classification: Large Quantity Generator

- . Waste code: CR01
- . Waste name: WASTE PCBs
  
- . Waste code: CR02
- . Waste name: WASTE OIL
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003
- . Waste name: REACTIVE WASTE
  
- . Waste code: D006
- . Waste name: CADMIUM
  
- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: P022
- . Waste name: CARBON DISULFIDE
  
- . Waste code: P098
- . Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
  
- . Waste code: U044
- . Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-
  
- . Waste code: U057
- . Waste name: CYCLOHEXANONE (I)
  
- . Waste code: U080
- . Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
  
- . Waste code: U122
- . Waste name: FORMALDEHYDE
  
- . Waste code: U188
- . Waste name: PHENOL
  
- . Waste code: U201
- . Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL
  
- . Waste code: U211
- . Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-
  
- . Waste code: U213
- . Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)
  
- . Waste code: U225
- . Waste name: BROMOFORM (OR) METHANE, TRIBROMO-
  
- . Waste code: U228
- . Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE

Date form received by agency: 02/25/2004  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste name: REACTIVE WASTE
- . Waste code: D009
- . Waste name: MERCURY
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- . Waste code: P098
- . Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

Date form received by agency: 02/25/2000  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 02/27/1998  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 02/29/1996  
Site name: ROGERS CORP.  
Classification: Large Quantity Generator

Date form received by agency: 03/01/1994  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 02/20/1990  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

Date form received by agency: 11/18/1980  
Site name: ROGERS CORP  
Classification: Not a generator, verified

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste code: D000
- . Waste name: Not Defined
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003
- . Waste name: REACTIVE WASTE
  
- . Waste code: D004
- . Waste name: ARSENIC
  
- . Waste code: D005
- . Waste name: BARIUM
  
- . Waste code: D006
- . Waste name: CADMIUM
  
- . Waste code: D007
- . Waste name: CHROMIUM
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHTHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHTHLORETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHTHLORETHYLENE, 1,1,1-TRICHTHLORETHANE, CHLOROENZENE, 1,1,2-TRICHTHLORE-1,2,2-TRIFLUOROETHANE, ORTHO-DICHTHLOREENZENE, TRICHTHLOREFLUOROMETHANE, AND 1,1,2, TRICHTHLORETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F004
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
  
- . Waste code: F007
- . Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.
  
- . Waste code: F009
- . Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.
  
- . Waste code: P005
- . Waste name: 2-PROPEN-1-OL (OR) ALLYL ALCOHOL
  
- . Waste code: P012
- . Waste name: ARSENIC OXIDE AS<sub>2</sub>O<sub>3</sub> (OR) ARSENIC TRIOXIDE
  
- . Waste code: P014
- . Waste name: BENZENETHIOL (OR) THIOPHENOL
  
- . Waste code: P030
- . Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
  
- . Waste code: P054
- . Waste name: AZIRIDINE (OR) ETHYLENEIMINE
  
- . Waste code: P065
- . Waste name: FULMINIC ACID, MERCURY(2+) SALT (R,T) (OR) MERCURY FULMINATE (R,T)
  
- . Waste code: P105
- . Waste name: SODIUM AZIDE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste code:	P106
. Waste name:	SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)
. Waste code:	U002
. Waste name:	2-PROPANONE (I) (OR) ACETONE (I)
. Waste code:	U007
. Waste name:	2-PROPENAMIDE (OR) ACRYLAMIDE
. Waste code:	U008
. Waste name:	2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)
. Waste code:	U009
. Waste name:	2-PROPENITRILE (OR) ACRYLONITRILE
. Waste code:	U012
. Waste name:	ANILINE (I,T) (OR) BENZENAMINE (I,T)
. Waste code:	U019
. Waste name:	BENZENE (I,T)
. Waste code:	U030
. Waste name:	4-BROMOPHENYL PHENYL ETHER (OR) BENZENE, 1-BROMO-4-PHENOXY-
. Waste code:	U031
. Waste name:	1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)
. Waste code:	U037
. Waste name:	BENZENE, CHLORO- (OR) CHLOROBENZENE
. Waste code:	U044
. Waste name:	CHLOROFORM (OR) METHANE, TRICHLORO-
. Waste code:	U052
. Waste name:	CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-
. Waste code:	U056
. Waste name:	BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)
. Waste code:	U057
. Waste name:	CYCLOHEXANONE (I)
. Waste code:	U069
. Waste name:	1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE
. Waste code:	U080
. Waste name:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
. Waste code:	U088
. Waste name:	1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER (OR) DIETHYL PHTHALATE
. Waste code:	U102
. Waste name:	1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE
. Waste code:	U107
. Waste name:	1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste code: U112  
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U113  
. Waste name: 2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)

. Waste code: U117  
. Waste name: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

. Waste code: U122  
. Waste name: FORMALDEHYDE

. Waste code: U123  
. Waste name: FORMIC ACID (C,T)

. Waste code: U124  
. Waste name: FURAN (I) (OR) FURFURAN (I)

. Waste code: U125  
. Waste name: 2-FURANCARBOXALDEHYDE (I) (OR) FURFURAL (I)

. Waste code: U134  
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

. Waste code: U140  
. Waste name: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)

. Waste code: U144  
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U151  
. Waste name: MERCURY

. Waste code: U154  
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U156  
. Waste name: CARBOCHLORIDIC ACID, METHYL ESTER, (I,T) (OR) METHYL CHLOROCARBONATE (I,T)

. Waste code: U159  
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U160  
. Waste name: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

. Waste code: U161  
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

. Waste code: U162  
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)

. Waste code: U169  
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste code:	U188
. Waste name:	PHENOL
. Waste code:	U190
. Waste name:	1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE
. Waste code:	U196
. Waste name:	PYRIDINE
. Waste code:	U197
. Waste name:	2,5-CYCLOHEXADIENE-1,4-DIONE (OR) P-BENZOQUINONE
. Waste code:	U201
. Waste name:	1,3-BENZENEDIOL (OR) RESORCINOL
. Waste code:	U204
. Waste name:	SELENIOS ACID (OR) SELENIUM DIOXIDE
. Waste code:	U205
. Waste name:	SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)
. Waste code:	U210
. Waste name:	ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE
. Waste code:	U213
. Waste name:	FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)
. Waste code:	U219
. Waste name:	THIOUREA
. Waste code:	U220
. Waste name:	BENZENE, METHYL- (OR) TOLUENE
. Waste code:	U221
. Waste name:	BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE
. Waste code:	U222
. Waste name:	BENZENAMINE, 2-METHYL-, HYDROCHLORIDE (OR) O-TOLUIDINE HYDROCHLORIDE
. Waste code:	U223
. Waste name:	BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)
. Waste code:	U225
. Waste name:	BROMOFORM (OR) METHANE, TRIBROMO-
. Waste code:	U226
. Waste name:	ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM
. Waste code:	U228
. Waste name:	ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE
. Waste code:	U235
. Waste name:	1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1) (OR) TRIS(2,3,-DIBROMOPROPYL) PHOSPHATE
. Waste code:	U238
. Waste name:	CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 08/18/1980  
Site name: ROGERS CORP  
Classification: Large Quantity Generator

- . Waste code: D000
- . Waste name: Not Defined
- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D005
- . Waste name: BARIUM

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL



MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F004
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
  
- . Waste code: F007
- . Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.
  
- . Waste code: F009
- . Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.
  
- . Waste code: P005
- . Waste name: 2-PROPEN-1-OL (OR) ALLYL ALCOHOL
  
- . Waste code: P012
- . Waste name: ARSENIC OXIDE AS<sub>2</sub>O<sub>3</sub> (OR) ARSENIC TRIOXIDE
  
- . Waste code: P014
- . Waste name: BENZENETHIOL (OR) THIOPHENOL
  
- . Waste code: P019
- . Waste name: Not Defined
  
- . Waste code: P030

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P053  
. Waste name: Not Defined

. Waste code: P054  
. Waste name: AZIRIDINE (OR) ETHYLENEIMINE

. Waste code: P065  
. Waste name: FULMINIC ACID, MERCURY(2+) SALT (R,T) (OR) MERCURY FULMINATE (R,T)

. Waste code: P080  
. Waste name: Not Defined

. Waste code: P090  
. Waste name: Not Defined

. Waste code: P100  
. Waste name: Not Defined

. Waste code: P105  
. Waste name: SODIUM AZIDE

. Waste code: P106  
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

. Waste code: U002  
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U007  
. Waste name: 2-PROPENAMIDE (OR) ACRYLAMIDE

. Waste code: U008  
. Waste name: 2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)

. Waste code: U009  
. Waste name: 2-PROPENITRILE (OR) ACRYLONITRILE

. Waste code: U012  
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)

. Waste code: U013  
. Waste name: Not Defined

. Waste code: U019  
. Waste name: BENZENE (I,T)

. Waste code: U030  
. Waste name: 4-BROMOPHENYL PHENYL ETHER (OR) BENZENE, 1-BROMO-4-PHENOXY-

. Waste code: U031  
. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

. Waste code: U037  
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U044

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-
- . Waste code: U052
- . Waste name: CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-
- . Waste code: U054
- . Waste name: Not Defined
- . Waste code: U056
- . Waste name: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)
- . Waste code: U057
- . Waste name: CYCLOHEXANONE (I)
- . Waste code: U069
- . Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE
- . Waste code: U080
- . Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
- . Waste code: U088
- . Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER (OR) DIETHYL PHTHALATE
- . Waste code: U102
- . Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE
- . Waste code: U107
- . Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE
- . Waste code: U112
- . Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)
- . Waste code: U113
- . Waste name: 2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)
- . Waste code: U117
- . Waste name: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)
- . Waste code: U122
- . Waste name: FORMALDEHYDE
- . Waste code: U123
- . Waste name: FORMIC ACID (C,T)
- . Waste code: U124
- . Waste name: FURAN (I) (OR) FURFURAN (I)
- . Waste code: U125
- . Waste name: 2-FURANCARBOXALDEHYDE (I) (OR) FURFURAL (I)
- . Waste code: U134
- . Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)
- . Waste code: U140
- . Waste name: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)
- . Waste code: U144

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE  
. Waste code: U151  
. Waste name: MERCURY  
. Waste code: U154  
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)  
. Waste code: U156  
. Waste name: CARBOCHLORIDIC ACID, METHYL ESTER, (I,T) (OR) METHYL CHLOROCARBONATE (I,T)  
. Waste code: U159  
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)  
. Waste code: U160  
. Waste name: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)  
. Waste code: U161  
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-  
. Waste code: U162  
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)  
. Waste code: U169  
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)  
. Waste code: U188  
. Waste name: PHENOL  
. Waste code: U190  
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE  
. Waste code: U196  
. Waste name: PYRIDINE  
. Waste code: U197  
. Waste name: 2,5-CYCLOHEXADIENE-1,4-DIONE (OR) P-BENZOQUINONE  
. Waste code: U201  
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL  
. Waste code: U204  
. Waste name: SELENIOS ACID (OR) SELENIUM DIOXIDE  
. Waste code: U205  
. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)  
. Waste code: U210  
. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE  
. Waste code: U213  
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)  
. Waste code: U219



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

- . Waste name: THIOUREA
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE
- . Waste code: U221
- . Waste name: BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE
- . Waste code: U222
- . Waste name: BENZENAMINE, 2-METHYL-, HYDROCHLORIDE (OR) O-TOLUIDINE HYDROCHLORIDE
- . Waste code: U223
- . Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)
- . Waste code: U225
- . Waste name: BROMOFORM (OR) METHANE, TRIBROMO-
- . Waste code: U226
- . Waste name: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM
- . Waste code: U228
- . Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE
- . Waste code: U229
- . Waste name: Not Defined
- . Waste code: U235
- . Waste name: 1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1) (OR) TRIS(2,3,-DIBROMOPROPYL) PHOSPHATE
- . Waste code: U238
- . Waste name: CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)
- . Waste code: U239
- . Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 22713

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 2961

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Amount (Lbs): 579

Waste code: D005  
Waste name: BARIUM  
Amount (Lbs): 485

Waste code: D008  
Waste name: LEAD  
Amount (Lbs): 785

Waste code: D009  
Waste name: MERCURY  
Amount (Lbs): 781

Waste code: D011  
Waste name: SILVER  
Amount (Lbs): 120

Waste code: D018  
Waste name: BENZENE  
Amount (Lbs): 985

Waste code: D035  
Waste name: METHYL ETHYL KETONE  
Amount (Lbs): 4250

Waste code: D039  
Waste name: TETRACHLOROETHYLENE  
Amount (Lbs): 500

Waste code: D040  
Waste name: TRICHLOROETHYLENE  
Amount (Lbs): 500

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 20025

Waste code: F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 4250

Waste code: LABP  
Waste name: LAB PACK  
Amount (Lbs): 485

Waste code: U080  
Waste name: METHANE, DICHLORO-  
Amount (Lbs): 485

Waste code: U159  
Waste name: 2-BUTANONE (I,T)  
Amount (Lbs): 1723

Waste code: U220  
Waste name: BENZENE, METHYL-  
Amount (Lbs): 1685

Waste code: U239  
Waste name: BENZENE, DIMETHYL- (I,T)  
Amount (Lbs): 1685

**Corrective Action Summary:**

Event date: 04/11/1994  
Event: RFA Completed, Assessment was an RFA.

Event date: 05/03/1994  
Event: CA Prioritization, Facility or area was assigned a high corrective action priority.

Event date: 08/05/1997  
Event: Current Human Exposures under Control, More information is needed to make a determination.

Event date: 08/05/1997  
Event: Igration of Contaminated Groundwater under Control, More information is needed to make a determination.

Event date: 05/15/1998  
Event: RFI Imposition

Event date: 04/21/2004  
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Event date: 04/21/2004  
Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: State Statute or Regulation  
Date violation determined: 01/23/2008  
Date achieved compliance: 02/28/2008  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/30/2008  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 02/28/2008  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD IS-Financial Requirements  
Date violation determined: 12/20/2006  
Date achieved compliance: 12/06/2007  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 03/16/2007  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 12/06/2007  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD IS-Financial Requirements  
Date violation determined: 09/05/2006  
Date achieved compliance: 12/06/2007  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 03/16/2007  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 12/06/2007  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c0-102(a))  
Area of violation: Generators - Pre-transport



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Date violation determined: 02/19/1997  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-102(a)(2)(E)  
Area of violation: Generators - Pre-transport  
Date violation determined: 02/19/1997  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-102(a)  
Area of violation: Generators - Pre-transport  
Date violation determined: 02/19/1997  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-102(a)  
Area of violation: Generators - General  
Date violation determined: 02/19/1997  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 105(a)(1)(D)  
Area of violation: TSD IS-General Facility Standards  
Date violation determined: 08/11/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Date achieved compliance: 02/26/1997  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 105(a) 102(a)  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date violation determined: 08/11/1993  
Date achieved compliance: 01/19/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-105(a)  
Area of violation: Generators - Pre-transport  
Date violation determined: 08/11/1993  
Date achieved compliance: 02/19/1997  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22(a)-449(c) - 102(a)  
Area of violation: Generators - General  
Date violation determined: 08/11/1993  
Date achieved compliance: 02/19/1997  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 22a-449(c)-102(a)  
Area of violation: Generators - General  
Date violation determined: 08/11/1993  
Date achieved compliance: 02/19/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 05/23/1990  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 05/23/1990  
Date achieved compliance: 01/08/1999  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/07/1998  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Financial Requirements  
Date violation determined: 05/23/1990  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 11/09/1988  
Date achieved compliance: 09/25/1991  
Violation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 08/12/1987  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Formal Enforcement Agreement or Order  
Date violation determined: 08/12/1987  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 05/05/1986  
Date achieved compliance: 03/31/1989  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/07/1986  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Financial Requirements  
Date violation determined: 11/08/1985  
Date achieved compliance: 02/19/1986  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Enforcement action date: 02/11/1986  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 04/24/1985  
Date achieved compliance: 03/31/1989  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/12/1985  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

**Evaluation Action Summary:**

Evaluation date: 01/29/2014  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/30/2012  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 01/23/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: State Statute or Regulation  
Date achieved compliance: 02/28/2008  
Evaluation lead agency: State

Evaluation date: 12/20/2006  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: TSD IS-Financial Requirements  
Date achieved compliance: 12/06/2007  
Evaluation lead agency: State

Evaluation date: 09/05/2006  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: TSD IS-Financial Requirements  
Date achieved compliance: 12/06/2007  
Evaluation lead agency: State

Evaluation date: 09/22/1999  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 01/19/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Evaluation lead agency: State

Evaluation date: 09/22/1999  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 01/08/1999  
Evaluation lead agency: State

Evaluation date: 09/22/1999  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Generators - General  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 09/22/1999  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 02/19/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 01/08/1999  
Evaluation lead agency: State

Evaluation date: 02/19/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 02/19/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 02/19/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 08/11/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 01/19/1999  
Evaluation lead agency: State

Evaluation date: 08/11/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD IS-General Facility Standards  
Date achieved compliance: 02/26/1997  
Evaluation lead agency: State

Evaluation date: 08/11/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 02/19/1997  
Evaluation lead agency: State

Evaluation date: 08/11/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 02/19/1997  
Evaluation lead agency: State

Evaluation date: 08/11/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 01/08/1999  
Evaluation lead agency: State

Evaluation date: 09/25/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/23/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 01/08/1999  
Evaluation lead agency: State

Evaluation date: 05/23/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 05/23/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Financial Requirements  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 11/09/1988  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 08/12/1987  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 08/12/1987  
Evaluation: GROUNDWATER MONITORING EVALUATION  
Area of violation: TSD - General  
Date achieved compliance: 09/25/1991

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Evaluation lead agency: State

Evaluation date: 08/12/1987  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Formal Enforcement Agreement or Order  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 05/05/1986  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/05/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 03/31/1989  
Evaluation lead agency: State

Evaluation date: 11/08/1985  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: TSD - Financial Requirements  
Date achieved compliance: 02/19/1986  
Evaluation lead agency: State

Evaluation date: 04/24/1985  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 03/31/1989  
Evaluation lead agency: State

**US FIN ASSUR:**

EPA ID: CTD001141167  
Provider: ROGERS CORPORATION  
EPA region: 1  
County: WINDHAM  
Mechanism type: FINANCIAL TEST  
Mechanism ID: FINANCIAL TEST  
Cost estimate: 126560  
Face value: 123957  
Effective date: 3/23/2012

**2020 COR ACTION:**

EPA ID: CTD001141167  
Region: 1  
Action: Not reported

**ENFORCEMENT:**

Enforcement Action ID: NOVWSWDH07028  
Enforcement Type Code: NOV  
Program Id: HWENF  
Enforcement Action Date: 03/16/2007  
Penalty Amount: Not reported  
Sep Amt: Not reported  
Bureau Name: BUREAU OF WASTE MANAGEMENT  
Program: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Status: Not reported  
Date of Discovery: Not reported  
Resolution Date: Not reported  
Resolution Type: Not reported  
Staff: Not reported  
ENF Action Comment: Not reported  
Number Violations: Not reported  
Civil Penalty: Not reported  
SEP Description: Not reported  
Associated Els: Not reported  
Client Affiliation Type: Not reported  
Affiliation Name: Not reported  
Affiliation Address Line1: Not reported  
Affiliation Address Line2: Not reported  
Affiliation City/State/Zip: Not reported  
Contact Title: Not reported  
Contact Name: Not reported  
Contact EMail: Not reported

CT Financial Assurance 1:

Region: 1  
I.D. NUMBER: CTD001141167  
Owner Name: Rogers Corporation  
Closure Costs: 128712  
Post Closure Costs: 0  
Correction Action Costs: 0  
Corporate Guarantee: Not reported  
Financial Test: Yes  
Certificate of Insurance: Not reported  
Letter of Credit: Not reported  
Trust Fund: Not reported  
Surety Bond: Not reported  
Other: Not reported

RI MANIFEST:

EPA Id: CTD001141167  
Manifest Document Number: CTF0920702  
GEN Cert Date: 2/1/2001  
TSDf Id: RID040098352  
TSDf Name: NORTHLAND ENVIRONMENTAL INC.  
TSDf Date: Not reported  
Transporter 2 Id: Not reported  
Transporter 2 Name: Not reported  
Transporter Receipt Date: Not reported  
Number Of Containers: 0  
Container Type: Not reported  
Waste Code1: CR04  
Waste Code2: Not reported  
Waste Code3: Not reported  
Fee Exempt Code: Not reported  
Comment: Not reported

Details:

EPA ID: CTD001141167  
Manifest Docket Number: CTF0920702  
Waste Description: RAIN WATER  
Quantity: 170

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

WT/Vol Units: G  
Item Number: 14120  
Transporter Name: FLEET ENVIRONMENTAL SERVICES  
Transporter EPA ID: MA5000004531  
GEN Cert Date: 2/1/2001  
Transporter Receipt Date: Not reported  
Transporter 2 Receipt Date: Not reported  
TSDF Receipt Date: Not reported  
Transporter 2 ID: Not reported

**NY MANIFEST:**

EPA ID: CTD001141167  
Country: USA  
Location Address 1: MAIN STREET  
Location Address 2: Not reported  
Location City: ROGERS  
Location State: CT  
Location Zip Code: 06263  
Location Zip Code 4: Not reported

**Mailing Info:**

Name: ROGERS CORPORATION  
Contact: LEE ROBERT F MGR ENVIR EN  
Address: MAIN STREET  
City/State/Zip: ROGERS, CT 06263  
Country: USA  
Phone: 203-774-1312

**Manifest:**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: MAD985286988  
Trans2 State ID: NYD982792814  
Generator Ship Date: 11/05/2009  
Trans1 Recv Date: 11/05/2009  
Trans2 Recv Date: 11/17/2009  
TSD Site Recv Date: 11/18/2009  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID: NYD049836679  
Waste Code: Not reported  
Quantity: 4950.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 1.0  
Container Type: TP - Tanks, portable  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 002877453FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: MAD985286988  
Trans2 State ID: NYD982792814  
Generator Ship Date: 11/05/2009  
Trans1 Recv Date: 11/05/2009  
Trans2 Recv Date: 11/17/2009  
TSD Site Recv Date: 11/18/2009  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD049836679  
Waste Code: Not reported  
Quantity: 4950.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 1.0  
Container Type: TP - Tanks, portable  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 002877453FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD046765574  
Trans2 State ID: Not reported  
Generator Ship Date: 05/02/2007  
Trans1 Recv Date: 05/02/2007  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 05/03/2007  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID: NYD049836679  
Waste Code: Not reported  
Quantity: 18180  
Units: P - Pounds  
Number of Containers: 1  
Container Type: CM - Metal boxes, cases, roll-offs  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2007  
Manifest Tracking Num: 002546320JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H132

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: MAC300008059  
Trans2 State ID: Not reported  
Generator Ship Date: 08/15/2007  
Trans1 Recv Date: 08/15/2007  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 08/16/2007  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID: NYD049836679  
Waste Code: Not reported  
Quantity: 3180  
Units: P - Pounds  
Number of Containers: 1  
Container Type: CM - Metal boxes, cases, roll-offs  
Handling Method: L Landfill.  
Specific Gravity: 1  
Year: 2007  
Manifest Tracking Num: 000164944JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H132

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD046765574  
Trans2 State ID: Not reported  
Generator Ship Date: 05/04/2007  
Trans1 Recv Date: 05/04/2007  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 05/07/2007  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD049836679  
Waste Code: Not reported  
Quantity: 23180  
Units: P - Pounds  
Number of Containers: 1  
Container Type: CM - Metal boxes, cases, roll-offs  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2007  
Manifest Tracking Num: 002546316JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H132

Document ID: NYG0649152  
Manifest Status: Not reported  
Trans1 State ID: 246928TN  
Trans2 State ID: Not reported  
Generator Ship Date: 11/03/1998  
Trans1 Recv Date: 11/03/1998  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 11/04/1998  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: MAD084814136  
Trans2 EPA ID: Not reported  
TSD ID: NYD049836679  
Waste Code: B003 - PETROLEUM OIL WITH 500 PPM OR > PCB  
Quantity: 00200  
Units: K - Kilograms (2.2 pounds)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Number of Containers: 002  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 01.00  
Year: 1998

Document ID: NYO2909079  
Manifest Status: Completed copy  
Trans1 State ID: CT019  
Trans2 State ID: Not reported  
Generator Ship Date: 03/24/1983  
Trans1 Recv Date: 03/24/1983  
Trans2 Recv Date: / /  
TSD Site Recv Date: 03/31/1983  
Part A Recv Date: 04/07/2003  
Part B Recv Date: 04/07/2003  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: CTD000636498  
Trans2 EPA ID: Not reported  
TSD ID: NYD080336241  
Waste Code: B005 - PCB ARTICLES WITH 500 PPM OR > PCB  
Quantity: 00518  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: L Landfill.  
Specific Gravity: 100  
Year: 1983

Document ID: NYB7449282  
Manifest Status: Completed copy  
Trans1 State ID: 4905BXOK  
Trans2 State ID: 4903BXOK  
Generator Ship Date: 05/01/1996  
Trans1 Recv Date: 05/01/1996  
Trans2 Recv Date: 05/13/1996  
TSD Site Recv Date: 05/13/1996  
Part A Recv Date: 05/09/1996  
Part B Recv Date: 05/22/1996  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: ARD981908551  
Trans2 EPA ID: ARD981908551  
TSD ID: NYD000632372  
Waste Code: D003 - NON-LISTED REACTIVE WASTES  
Quantity: 00010  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Year: 1996

Document ID: NYB7660152  
Manifest Status: Completed after the designated time period for a TSD to get a copy to the DEC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Trans1 State ID: TN78923  
Trans2 State ID: Not reported  
Generator Ship Date: 06/26/1996  
Trans1 Recv Date: 06/26/1996  
Trans2 Recv Date: / /  
TSD Site Recv Date: 07/15/1996  
Part A Recv Date: 08/23/1996  
Part B Recv Date: 07/29/1996  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: CT5000000570  
Trans2 EPA ID: Not reported  
TSDF ID: NY0000343889  
Waste Code: D009 - MERCURY 0.2 MG/L TCLP  
Quantity: 00150  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: D009 - MERCURY 0.2 MG/L TCLP  
Quantity: 00040  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 1996

Document ID: NYB4164246  
Manifest Status: Completed copy  
Trans1 State ID: PD9796NY  
Trans2 State ID: Not reported  
Generator Ship Date: 06/17/1994  
Trans1 Recv Date: 06/17/1994  
Trans2 Recv Date: / /  
TSD Site Recv Date: 06/21/1994  
Part A Recv Date: 07/11/1994  
Part B Recv Date: 06/30/1994  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: NYD980769947  
Trans2 EPA ID: Not reported  
TSDF ID: NYD000632372  
Waste Code: D003 - NON-LISTED REACTIVE WASTES  
Quantity: 00015  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Year: 1994

Document ID: NYA6089247  
Manifest Status: Completed copy  
Trans1 State ID: S62738NY  
Trans2 State ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Generator Ship Date: 02/27/1987  
Trans1 Recv Date: 02/27/1987  
Trans2 Recv Date: / /  
TSD Site Recv Date: 03/03/1987  
Part A Recv Date: 03/17/1987  
Part B Recv Date: 03/06/1987  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: NYD097644801  
Trans2 EPA ID: Not reported  
TSDF ID: NYD000632372  
Waste Code: D004 - ARSENIC 5.0 MG/L TCLP  
Quantity: 00025  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Year: 1987

Document ID: NYA5462964  
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC  
Trans1 State ID: S62738NY  
Trans2 State ID: Not reported  
Generator Ship Date: 09/15/1987  
Trans1 Recv Date: 09/15/1987  
Trans2 Recv Date: / /  
TSD Site Recv Date: 09/22/1987  
Part A Recv Date: 10/22/1987  
Part B Recv Date: 09/24/1987  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: NYD097644801  
Trans2 EPA ID: Not reported  
TSDF ID: NYD000632372  
Waste Code: D002 - NON-LISTED CORROSIVE WASTES  
Quantity: 00025  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Waste Code: D002 - NON-LISTED CORROSIVE WASTES  
Quantity: 00025  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Waste Code: D002 - NON-LISTED CORROSIVE WASTES  
Quantity: 00025  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00025



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 1987

Document ID: NYO2372841  
Manifest Status: Completed copy  
Trans1 State ID: MA005  
Trans2 State ID: Not reported  
Generator Ship Date: 05/09/1984  
Trans1 Recv Date: 05/09/1984  
Trans2 Recv Date: / /  
TSD Site Recv Date: 05/10/1984  
Part A Recv Date: 05/14/1984  
Part B Recv Date: 05/21/1984  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: MAD062179890  
Trans2 EPA ID: Not reported  
TSDF ID: NYD080469935  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00150  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 001  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 1984

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: MAD985286988  
Trans2 State ID: NYD982792814  
Generator Ship Date: 06/07/2010  
Trans1 Recv Date: 06/07/2010  
Trans2 Recv Date: 06/21/2010  
TSD Site Recv Date: 06/22/2010  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CTD001141167  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID: NYD049836679  
Waste Code: Not reported  
Quantity: 1129.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 1.0  
Container Type: TP - Tanks, portable  
Handling Method: L Landfill.  
Specific Gravity: 1.0  
Year: 2010  
Manifest Tracking Num: 003185924FLE  
Import Ind: N  
Export Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

**NJ MANIFEST:**

EPA Id: CTD001141167  
Mail Address: Not reported  
Mail City/State/Zip: Not reported  
Facility Phone: Not reported  
Emergency Phone: Not reported  
Contact: Not reported  
Comments: Not reported  
SIC Code: Not reported  
County: 00  
Municipal: 00  
Previous EPA Id: Not reported  
Gen Flag: X  
Trans Flag: Not reported  
TSDf Flag: X  
Name Change: Not reported  
Date Change: Not reported

**Manifest:**

Manifest Number: 000141295VES  
EPA ID: CTD001141167  
Date Shipped: 09/25/2007  
TSDf EPA ID: NJD980536593  
Transporter EPA ID: NJD080631369  
Transporter 2 EPA ID: NJD054126164  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 09/25/2007  
Date Trans2 Transported Waste: 09/28/2007  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 09/28/2007  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROGERS CORP (Continued)**

**1000217500**

Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: No  
Reason Load Was Rejected: Not reported

Waste:

Manifest Year: Not reported  
Waste Code: D003  
Hand Code: H14  
Quantity: 1 P

Manifest Number: NJA5123435  
EPA ID: CTD001141167  
Date Shipped: 05/11/2004  
TSDf EPA ID: NJD980536593  
Transporter EPA ID: NJD080631369  
Transporter 2 EPA ID: NJD054126164  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 05/12/2004  
Date Trans2 Transported Waste: 05/17/2004  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 05/18/2004  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06070422  
Was Load Rejected: No  
Reason Load Was Rejected: Not reported

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**4**  
**SW**  
**1/4-1/2**  
**0.471 mi.**  
**2489 ft.**

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE**  
**POMFRET ROAD**  
**POMFRET, CT 06258**

**CERCLIS 1000230561**  
**CT SHWS CTD982199150**  
**CT SDADB**  
**CT CPCS**

**Relative:**  
**Lower**

CERCLIS:  
 Site ID: 0101604  
 EPA ID: CTD982199150  
 Facility County: WINDHAM  
 Short Name: CT DOT SEARLES ROAD DISPO  
 Congressional District: 02  
 IFMS ID: Not reported  
 SMSA Number: Not reported  
 USGC Hydro Unit: 01100001  
 Federal Facility: Not a Federal Facility  
 DMNSN Number: 0.00000  
 Site Orphan Flag: N  
 RCRA ID: Not reported  
 USGS Quadrangle: Not reported  
 Site Init By Prog: Not reported  
 NFRAP Flag: Not reported  
 Parent ID: Not reported  
 RST Code: Not reported  
 EPA Region: 01  
 Classification: Not reported  
 Site Settings Code: Not reported  
 NPL Status: Not on the NPL  
 DMNSN Unit Code: Not reported  
 RBRAC Code: Not reported  
 RResp Fed Agency Code: Not reported  
 Non NPL Status: Other Cleanup Activity: State-Lead Cleanup  
 Non NPL Status Date: 12/27/02  
 Site Fips Code: 09015  
 CC Concurrence Date: / /  
 CC Concurrence FY: Not reported  
 Alias EPA ID: Not reported  
 Site FUDS Flag: Not reported

**Actual:**  
**286 ft.**

CERCLIS Site Contact Name(s):

Contact ID: 13004278.00000  
 Contact Name: Margaret Morris  
 Contact Tel: Not reported  
 Contact Title: Site Assessment Manager (SAM)  
 Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 101  
 Alias Name: POMFRET DOT GARAGE  
 Alias Address: POMFRET LANDING ROAD  
 BROOKLYN, CT 06234  
 Alias Comments: Not reported  
 Site Description: Based upon state letter of 05-17-02

CERCLIS Assessment History:

Action Code: 001  
 Action: DISCOVERY  
 Date Started: / /



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE (Continued)**

**1000230561**

Date Completed: 09/11/87  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 01/29/88  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: SITE INSPECTION  
Date Started: / /  
Date Completed: 07/07/93  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: SITE REASSESSMENT  
Date Started: / /  
Date Completed: 08/02/01  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

**SHWS:**

State ID: 348  
PTP Id Number: Not reported  
WPC Number: Not reported  
EPA ID: CTD982199150  
PO Office: Not reported  
Lat/Long: /  
Location Method: Not reported  
Groundwater Class: GA  
Surface Water Qualification: A  
Waste Category: CHLR VOC, SOLVENTS  
Disposal Method: LANDFILL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE (Continued)**

**1000230561**

Sample: False  
Other Dept of Env. Protection: DOT  
Updated By: BOBOWICZ, H. A.  
Update Program: FPRE  
Date Updated: 4/28/1993  
Duplicate: False  
Program: SUPERFUND  
Inventory Date: 7/6/1987  
On Inventory: True  
Assessed: True  
87 Group: EN  
87 Origin: INVENTORY  
On 87: True  
Comments: UNDER STUDY BY DOT. (7/87) CERCLIS AND INVENTORY SHOW SITE ON SEARLES ROAD IN POMFRET. CERCLIS TO BE CORRECTED (6/93)

Site Discovery and Assessment:

Facility ID: 348  
Rem Master ID: 443  
PTP Id: Not reported  
WPC Number: Not reported  
Postal District: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Lat/Long Determined By: Not reported  
Ground Water Quality Classification: GA  
Surface Water Quality Classification: A  
Waste Type: CHLR VOC, SOLVENTS  
Disposal: LANDFILL  
Sample Data Available: False  
Updated By: BOBOWICZ, H. A.  
Update Program: FPRE  
Updated: 4/28/1993  
Date Created: Not reported  
Duplicate: False

SDA Federal:

EPA CERCLIS Id: Not reported  
Number EPA RCRIS Id: Not reported  
Site on EPA's CERCLIS: True  
Site Archived from CERCLIS: False  
Archive Date: Not reported  
EPA's Removal at Site: False  
Deferred to another EPA Program: False  
EPA Env Priority Initiative Site: False  
Federal Facility: False  
Site on EPA's National Priority List: False  
Part of an NPL site: False  
RCRA Generator Status: Not reported  
RCRA Permit Status: Not reported

SDA Referral:

Referral Id: 341  
Source of referral: SUPERFUND  
Date Received: 7/6/1987  
Staff Assigned: DEP  
Remediation Program: SUPERFUND  
Date dt\_assigned: 7/6/1987

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE (Continued)**

**1000230561**

Remediation Complete Approved DEP/Verified by LEP:	7/6/1987
Outcome:	INVENTORY
SDA Remedial:	
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
SDA Orders:	
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported
SDADB:	
SDA Waste:	
Waste Id:	5
Waste Type:	CHLR VOC
Description:	Chlorinated Volatile Organic Compounds
CPCS:	
Site Type:	Sites
Lust Status code:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CT DOT SEARLES ROAD DISPOSAL FACILITY #33/POMFRET DOT GARAGE (Continued)**

**1000230561**

Lust Status: Not reported  
PTP Form: Not reported  
Program: -1  
Comments: Under Study By Dot. (7/87) Cerclis And Inventory Show Site On Searles Road In Pomfret. Cerclis To Be Corrected (6/93)  
Site Type Definition: Inventory of Hazardous Waste Disposal Sites



Count: 6 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DAYVILLE	S105738637	BOUDREAU WELDING	MAIN ST.	06241	CT LUST, CT CPCS
KILLINGLY	S100996733	WILLIAM PRYM CO. INC.	ROUTE 101	06239	CT SHWS, CT SDADB, CT CPCS
KILLINGLY	S110775258	DAYVILLE SHELL 136299	1095 NORTH MAIN STREET (ROUTE	06239	CT LUST, CT CPCS
KILLINGLY	U002023313	ROGERS CORP	1 TECHNOLOGY DR.	06239	CT VCP, CT CPCS
KILLINGLY	S110280374	ROGERS CORP	1 TECHNOLOGY DR.	06239	CT LUST, CT SPILLS
POMFRET	S110280760	CT DOT POMFRET (HART # 33)	SEARLES ROAD		CT VCP

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 07/10/2015
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal institutional controls / engineering controls registries***

### **LUCIS: Land Use Control Information System**

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 08/12/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/30/2015
	Data Release Frequency: Varies

### **US ENG CONTROLS: Engineering Controls Sites List**

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/26/2015	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 08/31/2015
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/14/2015
	Data Release Frequency: Varies

### **US INST CONTROL: Sites with Institutional Controls**

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/26/2015	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 08/31/2015
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/14/2015
	Data Release Frequency: Varies

## ***Federal ERNS list***

### **ERNS: Emergency Response Notification System**

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-267-2180
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 06/26/2015
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Annually

## ***State- and tribal - equivalent CERCLIS***

### **SHWS: Inventory of Hazardous Disposal Sites**

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/23/2010	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 04/23/2010	Telephone: 860-424-3705
Date Made Active in Reports: 05/25/2010	Last EDR Contact: 07/06/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SDADB: Site Discovery and Assessment Database

All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 04/23/2010	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 04/23/2010	Telephone: 860-424-3705
Date Made Active in Reports: 05/25/2010	Last EDR Contact: 07/06/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: No Update Planned

## **State and tribal landfill and/or solid waste disposal site lists**

### SWF/LF: List of Landfills/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/02/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 07/28/2015	Telephone: 860-424-3366
Date Made Active in Reports: 08/05/2015	Last EDR Contact: 07/28/2015
Number of Days to Update: 8	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Annually

## **State and tribal leaking storage tank lists**

### LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/24/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 07/29/2015	Telephone: 860-424-3376
Date Made Active in Reports: 08/05/2015	Last EDR Contact: 07/06/2015
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Semi-Annually

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015	Source: EPA Region 7
Date Data Arrived at EDR: 04/28/2015	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

### INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015	Source: EPA Region 8
Date Data Arrived at EDR: 05/05/2015	Telephone: 303-312-6271
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 48	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/08/2015	Telephone: 415-972-3372
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 07/31/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/03/2015	Source: EPA Region 1
Date Data Arrived at EDR: 04/30/2015	Telephone: 617-918-1313
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/31/2015
Number of Days to Update: 53	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 07/21/2015	Source: EPA Region 10
Date Data Arrived at EDR: 07/29/2015	Telephone: 206-553-2857
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 07/28/2015	Source: EPA, Region 5
Date Data Arrived at EDR: 08/07/2015	Telephone: 312-886-7439
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

## INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2015	Source: EPA Region 4
Date Data Arrived at EDR: 08/07/2015	Telephone: 404-562-8677
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Semi-Annually

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/13/2015	Source: EPA Region 6
Date Data Arrived at EDR: 08/03/2015	Telephone: 214-665-6597
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 71	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

### **State and tribal registered storage tank lists**

#### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/10/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Varies

#### UST: Underground Storage Tank Data

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/25/2015  
Date Data Arrived at EDR: 09/01/2015  
Date Made Active in Reports: 09/22/2015  
Number of Days to Update: 21

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3376  
Last EDR Contact: 08/31/2015  
Next Scheduled EDR Contact: 12/14/2015  
Data Release Frequency: Semi-Annually

## AST: Marine Terminals and Tank Information

A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 07/01/2015  
Date Data Arrived at EDR: 08/04/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 28

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3233  
Last EDR Contact: 08/03/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Varies

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/28/2015  
Date Data Arrived at EDR: 08/07/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 67

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Varies

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 07/21/2015  
Date Data Arrived at EDR: 07/29/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 76

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Quarterly

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/03/2015  
Date Data Arrived at EDR: 04/30/2015  
Date Made Active in Reports: 06/22/2015  
Number of Days to Update: 53

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 07/31/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014  
Date Data Arrived at EDR: 11/25/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 65

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Varies

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/14/2014  
Date Data Arrived at EDR: 02/13/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 28

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 07/31/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Quarterly

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/13/2015  
Date Data Arrived at EDR: 08/03/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 71

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Semi-Annually

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2015  
Date Data Arrived at EDR: 08/07/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 67

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Semi-Annually

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/28/2015  
Date Data Arrived at EDR: 08/14/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 60

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Quarterly

## ***State and tribal institutional control / engineering control registries***

### ENG CONTROLS: Engineering Controls Listing

An Engineered Control is a permanent physical structure designed to safely isolate pollutants which would otherwise not comply with the self-implementing remedial options allowed in the Connecticut Remediation Standard Regulations (RSRs). The ECGD includes a description of what is eligible to be considered as an Engineered Control under section 22a-133k-2(f)(2) of the RSRs, a description of the information necessary for the preparation of complete and approvable applications, a step-by-step outline of the review and approval process, and supplemental resources provided in the appendices.

Date of Government Version: 03/05/2013  
Date Data Arrived at EDR: 05/07/2013  
Date Made Active in Reports: 06/19/2013  
Number of Days to Update: 43

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3000  
Last EDR Contact: 08/07/2015  
Next Scheduled EDR Contact: 11/16/2015  
Data Release Frequency: Varies

### AUL: ELUR Sites

Environmental Land Use Restriction sites.

Date of Government Version: 08/18/2015  
Date Data Arrived at EDR: 08/21/2015  
Date Made Active in Reports: 09/22/2015  
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3912  
Last EDR Contact: 08/07/2015  
Next Scheduled EDR Contact: 11/23/2015  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal voluntary cleanup sites***

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014	Source: EPA, Region 1
Date Data Arrived at EDR: 10/01/2014	Telephone: 617-918-1102
Date Made Active in Reports: 11/06/2014	Last EDR Contact: 06/26/2015
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Varies

### VCP: Voluntary Remediation Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 08/18/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/21/2015	Telephone: 860-424-3705
Date Made Active in Reports: 09/22/2015	Last EDR Contact: 08/07/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 11/23/2015
	Data Release Frequency: Varies

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

## ***State and tribal Brownfields sites***

### BROWNFIELDS: Brownfields Inventory

CBRA has identified over 200 brownfield sites eligible for redevelopment. In most cases these are prime properties for commercial or industrial use. CBRA's grants, assistance and financing lower the financial risks and eliminate the legal, regulatory and environmental risks of redevelopment.

Date of Government Version: 06/20/2015	Source: Connecticut Brownfields Redevelopment Authority
Date Data Arrived at EDR: 06/24/2015	Telephone: 860-258-7833
Date Made Active in Reports: 07/21/2015	Last EDR Contact: 06/17/2015
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: Varies

### BROWNFIELDS 2: Brownfields Inventory

A brownfield site is generally defined as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant or contaminant?"

Date of Government Version: 11/30/2004	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 06/26/2009	Telephone: 860-424-3705
Date Made Active in Reports: 07/09/2009	Last EDR Contact: 06/25/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/22/2015  
Date Data Arrived at EDR: 06/24/2015  
Date Made Active in Reports: 09/02/2015  
Number of Days to Update: 70

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 06/24/2015  
Next Scheduled EDR Contact: 10/05/2015  
Data Release Frequency: Semi-Annually

## **Local Lists of Landfill / Solid Waste Disposal Sites**

### SWRCY: Recycling Facilities

A listing of recycling facilities.

Date of Government Version: 04/16/2015  
Date Data Arrived at EDR: 04/23/2015  
Date Made Active in Reports: 04/30/2015  
Number of Days to Update: 7

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3223  
Last EDR Contact: 06/10/2015  
Next Scheduled EDR Contact: 09/28/2015  
Data Release Frequency: Varies

### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 05/01/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Varies

### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 07/22/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: No Update Planned

### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## **Local Lists of Hazardous waste / Contaminated Sites**

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/01/2015  
Date Data Arrived at EDR: 06/02/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 106

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/31/2015  
Next Scheduled EDR Contact: 12/14/2015  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations included in the Spills database.

Date of Government Version: 07/28/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 07/31/2015	Telephone: 860-424-3361
Date Made Active in Reports: 09/01/2015	Last EDR Contact: 07/06/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/15/2015	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/02/2015	Telephone: 202-307-1000
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 08/31/2015
Number of Days to Update: 106	Next Scheduled EDR Contact: 12/14/2015
	Data Release Frequency: Quarterly

## **Local Land Records**

### CT PROPERTY: Property Transfer Filings

A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 08/18/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/21/2015	Telephone: 860-424-3705
Date Made Active in Reports: 09/22/2015	Last EDR Contact: 08/07/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 11/23/2015
	Data Release Frequency: Semi-Annually

### LIENS: Environmental Liens Listing

A listing of environmental liens placed by the Cost Recovery Program.

Date of Government Version: 05/20/2014	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 05/23/2014	Telephone: 860-424-3120
Date Made Active in Reports: 06/03/2014	Last EDR Contact: 05/18/2015
Number of Days to Update: 11	Next Scheduled EDR Contact: 08/31/2015
	Data Release Frequency: Varies

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 07/22/2015
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/24/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/02/2015  
Number of Days to Update: 68

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Annually

SPILLS: Oil & Chemical Spill Database  
Oil and Chemical Spill Data.

Date of Government Version: 07/28/2015  
Date Data Arrived at EDR: 07/31/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3024  
Last EDR Contact: 07/06/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/15/2012  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 02/11/2013  
Number of Days to Update: 39

Source: FirstSearch  
Telephone: N/A  
Last EDR Contact: 01/03/2013  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## **Other Ascertainable Records**

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/09/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/26/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015  
Date Data Arrived at EDR: 07/08/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 09/11/2015  
Next Scheduled EDR Contact: 12/21/2015  
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 07/14/2015  
Next Scheduled EDR Contact: 10/28/2015  
Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/14/2015
Number of Days to Update: 339	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 05/21/2015
Number of Days to Update: 54	Next Scheduled EDR Contact: 08/31/2015
	Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/02/2015	Telephone: 202-566-1917
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 08/12/2015
Number of Days to Update: 106	Next Scheduled EDR Contact: 11/30/2015
	Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/04/2015
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/23/2015
	Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 05/14/2015
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/24/2015
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 06/25/2015
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013	Source: EPA
Date Data Arrived at EDR: 02/12/2015	Telephone: 202-566-0250
Date Made Active in Reports: 06/02/2015	Last EDR Contact: 01/29/2015
Number of Days to Update: 110	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Annually

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 07/22/2015
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Annually

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 06/12/2015
Number of Days to Update: 74	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Annually

## RMP: Risk Management Plans

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/13/2015	Telephone: 202-564-8600
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 05/14/2015
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/24/2015
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 07/17/2015
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2015	Telephone: 202-564-5088
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 31	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 05/20/2015  
Next Scheduled EDR Contact: 09/07/2015  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 05/20/2015  
Next Scheduled EDR Contact: 09/07/2015  
Data Release Frequency: Quarterly

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/26/2015  
Date Data Arrived at EDR: 07/10/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 95

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 09/03/2015  
Next Scheduled EDR Contact: 12/21/2015  
Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 07/13/2015  
Next Scheduled EDR Contact: 10/28/2015  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 06/12/2015  
Next Scheduled EDR Contact: 09/21/2015  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 07/31/2015  
Next Scheduled EDR Contact: 11/09/2015  
Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/07/2015  
Date Data Arrived at EDR: 07/09/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 69

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 07/09/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 08/04/2015  
Next Scheduled EDR Contact: 11/16/2015  
Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 04/17/2015  
Date Made Active in Reports: 06/02/2015  
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 06/22/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 08/28/2015  
Next Scheduled EDR Contact: 12/07/2015  
Data Release Frequency: Biennially

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 07/14/2015  
Next Scheduled EDR Contact: 10/28/2015  
Data Release Frequency: Semi-Annually

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 05/26/2015  
Next Scheduled EDR Contact: 09/07/2015  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014  
Date Data Arrived at EDR: 11/26/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 64

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 07/07/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust.

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 07/22/2015  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 09/02/2015  
Number of Days to Update: 40

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 06/22/2015  
Next Scheduled EDR Contact: 10/05/2015  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 07/22/2015  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 09/02/2015  
Number of Days to Update: 40

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 06/22/2015  
Next Scheduled EDR Contact: 10/22/2015  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/14/2015	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/03/2015	Telephone: 303-231-5959
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 09/01/2015
Number of Days to Update: 91	Next Scheduled EDR Contact: 12/14/2015
	Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005	Source: USGS
Date Data Arrived at EDR: 02/29/2008	Telephone: 703-648-7709
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 06/05/2015
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Varies

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 06/05/2015
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Varies

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015	Source: EPA
Date Data Arrived at EDR: 02/27/2015	Telephone: (617) 918-1111
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 06/10/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Quarterly

## AIRS: Permitted Air Sources Listing

A listing of permitted air sources in Connecticut.

Date of Government Version: 01/30/2015	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 01/30/2015	Telephone: 860-424-3026
Date Made Active in Reports: 02/03/2015	Last EDR Contact: 07/24/2015
Number of Days to Update: 4	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

## CPCS: Contaminated or Potentially Contaminated Sites

A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/15/2015  
Date Data Arrived at EDR: 08/17/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 15

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3766  
Last EDR Contact: 08/07/2015  
Next Scheduled EDR Contact: 11/23/2015  
Data Release Frequency: Quarterly

## DRYCLEANERS: Drycleaner Facilities

A listing of drycleaner facility locations.

Date of Government Version: 07/18/2008  
Date Data Arrived at EDR: 08/08/2008  
Date Made Active in Reports: 08/27/2008  
Number of Days to Update: 19

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3026  
Last EDR Contact: 06/10/2015  
Next Scheduled EDR Contact: 09/28/2015  
Data Release Frequency: Varies

## ENFORCEMENT: Enforcement Case Listing

The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 07/24/2015  
Date Data Arrived at EDR: 07/27/2015  
Date Made Active in Reports: 08/05/2015  
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3265  
Last EDR Contact: 07/20/2015  
Next Scheduled EDR Contact: 11/02/2015  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

A listing containing RCRA financial assurance information submitted on behalf of the CT DEP's Program Analysis Group of the Waste Engineering and Enforcement Division.

Date of Government Version: 07/23/2014  
Date Data Arrived at EDR: 07/01/2014  
Date Made Active in Reports: 07/09/2014  
Number of Days to Update: 8

Source: Department of Energy & Environmental Protection  
Telephone: 860-418-5930  
Last EDR Contact: 06/17/2015  
Next Scheduled EDR Contact: 10/05/2015  
Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/17/2015  
Date Data Arrived at EDR: 08/07/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 25

Source: Department of Energy & Environmental Protection  
Telephone: 860-418-5930  
Last EDR Contact: 06/17/2015  
Next Scheduled EDR Contact: 10/05/2015  
Data Release Frequency: Varies

## LEAD: Lead Inspection Database

The Lead Poisoning Prevention and Control Program lead inspection database.

Date of Government Version: 03/26/2014  
Date Data Arrived at EDR: 03/27/2014  
Date Made Active in Reports: 05/08/2014  
Number of Days to Update: 42

Source: Department of Public Health  
Telephone: 860-509-7299  
Last EDR Contact: 06/05/2015  
Next Scheduled EDR Contact: 09/21/2015  
Data Release Frequency: Varies

## LWDS: Connecticut Leachate and Wastewater Discharge Sites

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/17/2009  
Date Data Arrived at EDR: 10/21/2009  
Date Made Active in Reports: 10/30/2009  
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection  
Telephone: N/A  
Last EDR Contact: 10/15/2014  
Next Scheduled EDR Contact: 01/26/2015  
Data Release Frequency: Varies

## CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 05/18/2015  
Next Scheduled EDR Contact: 08/31/2015  
Data Release Frequency: No Update Planned

## NPDES: Wastewater Permit Listing

A listing of permits issued by the DEP.

Date of Government Version: 08/07/2015  
Date Data Arrived at EDR: 08/07/2015  
Date Made Active in Reports: 09/01/2015  
Number of Days to Update: 25

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3832  
Last EDR Contact: 08/07/2015  
Next Scheduled EDR Contact: 10/12/2015  
Data Release Frequency: Varies

## SEH: List of Significant Environmental Hazards Report to DEEP

The Significant Environmental Hazard Statute is intended to identify and abate short-term risks associated with specific environmental conditions identified in the statute. After abatement of short-term risks (meaning abatement of the significant environmental hazard condition), there may still be potential long-term risks associated with the release. However, a significant environmental hazard can be considered abated under the statute even though potential long-term risks may not have been addressed.

Date of Government Version: 06/30/2015  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 08/05/2015  
Number of Days to Update: 12

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3766  
Last EDR Contact: 07/20/2015  
Next Scheduled EDR Contact: 11/02/2015  
Data Release Frequency: Varies

## EDR HIGH RISK HISTORICAL RECORDS

### ***EDR Exclusive Records***

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Energy & Environmental Protection formerly know as the DEP which changes in July 2011 in Connecticut.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/02/2014  
Number of Days to Update: 185

Source: Department of Energy & Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Energy & Environmental Protection formerly know as the DEP which changes in July 2011 in Connecticut.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/02/2014  
Number of Days to Update: 185

Source: Department of Energy & Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NJ MANIFEST: Manifest Information  
Hazardous waste manifest information.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 07/17/2015  
Date Made Active in Reports: 08/12/2015  
Number of Days to Update: 26

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 07/13/2015  
Next Scheduled EDR Contact: 10/28/2015  
Data Release Frequency: Annually

## NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2015  
Date Data Arrived at EDR: 08/06/2015  
Date Made Active in Reports: 08/24/2015  
Number of Days to Update: 18

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/06/2015  
Next Scheduled EDR Contact: 11/16/2015  
Data Release Frequency: Annually

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 08/18/2015  
Number of Days to Update: 25

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 07/20/2015  
Next Scheduled EDR Contact: 11/02/2015  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 06/19/2015  
Date Made Active in Reports: 07/15/2015  
Number of Days to Update: 26

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 05/26/2015  
Next Scheduled EDR Contact: 09/07/2015  
Data Release Frequency: Annually

## VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 03/26/2015  
Date Data Arrived at EDR: 06/03/2015  
Date Made Active in Reports: 07/20/2015  
Number of Days to Update: 47

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 07/20/2015  
Next Scheduled EDR Contact: 11/02/2015  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 03/19/2015  
Date Made Active in Reports: 04/07/2015  
Number of Days to Update: 19

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/11/2015  
Next Scheduled EDR Contact: 09/28/2015  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation  
Telephone: 281-546-1505

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

## Electric Power Transmission Line Data

Source: PennWell Corporation  
Telephone: 800-823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Child Care Facilities

Source: Department of Public Health

Telephone: 860-509-8045

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Tidal Wetlands

Source: Department of Energy & Environmental Protection

Telephone: 860-424-4054

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

NABOZNY SOLAR SITE  
101 WOODS HILL ROAD  
POMFRET, CT 06259

### TARGET PROPERTY COORDINATES

Latitude (North):	41.8309 - 41° 49' 51.24"
Longitude (West):	71.9209 - 71° 55' 15.24"
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	257440.2
UTM Y (Meters):	4634913.5
Elevation:	364 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	5642109 DANIELSON, CT
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

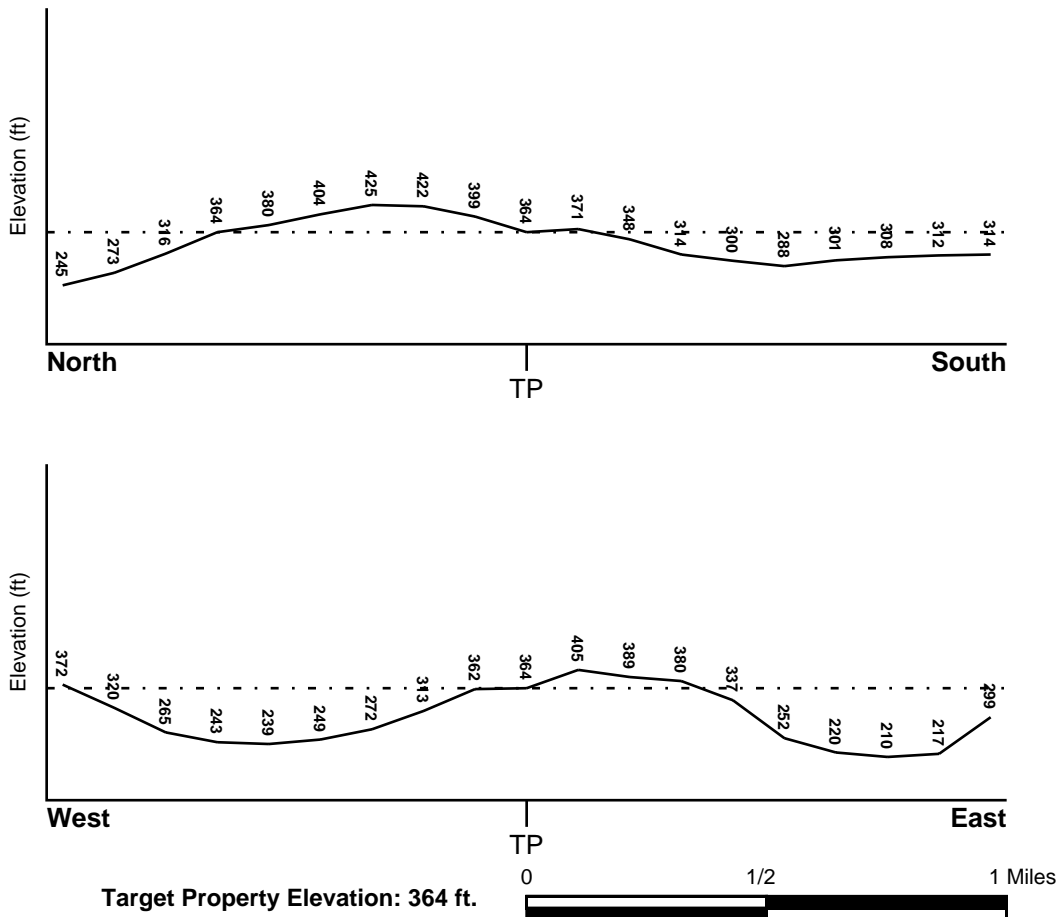
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

<u>Target Property County</u>	<u>FEMA Flood Electronic Data</u>
WINDHAM, CT	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

## NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
DANIELSON	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### *Site-Specific Hydrogeological Data\*:*

Search Radius:	1.25 miles
Status:	Not found

## AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		



## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

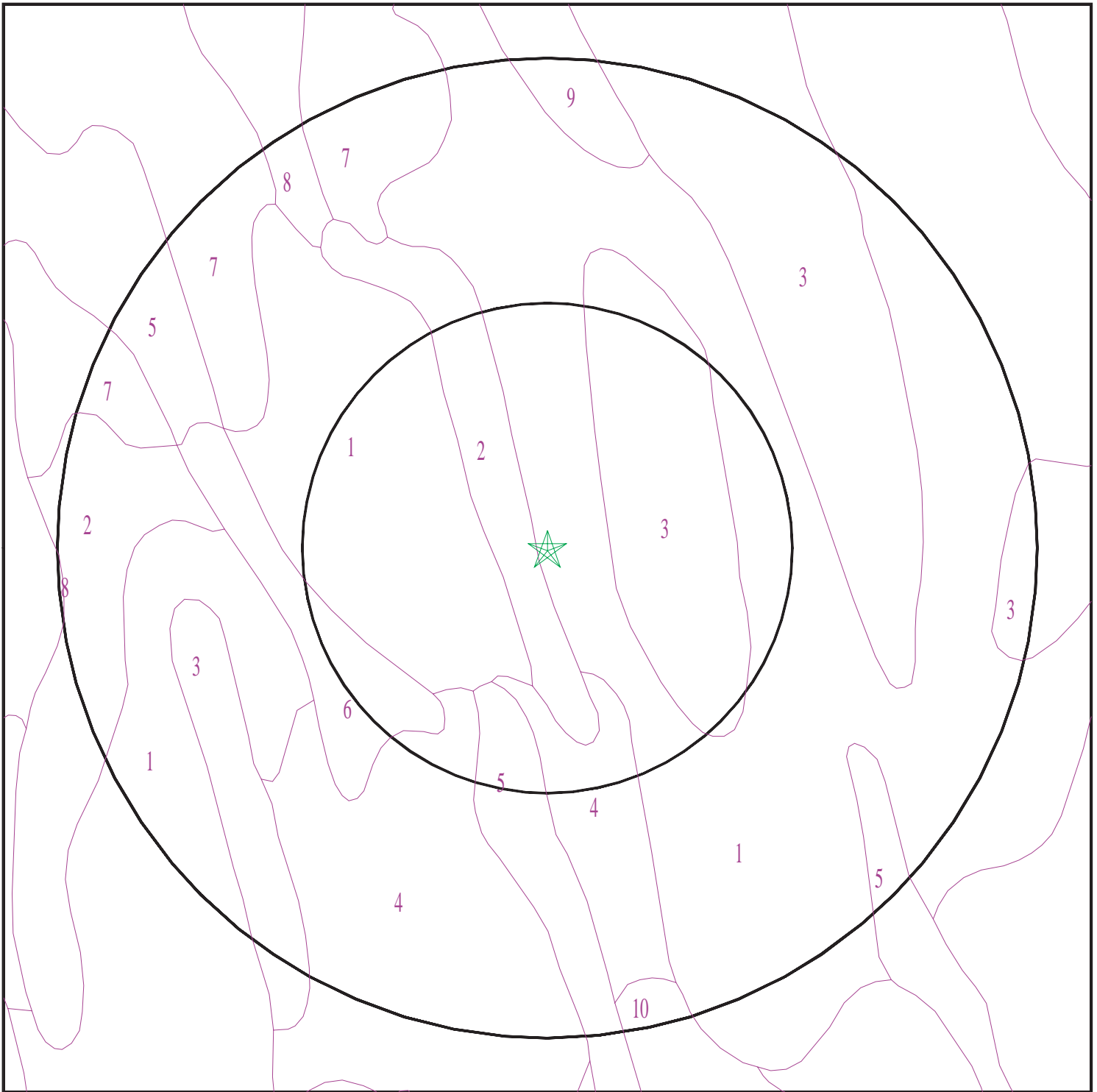
Era:	Paleozoic
System:	Ordovician
Series:	Ordovician volcanic rocks
Code:	Ov <i>(decoded above as Era, System &amp; Series)</i>

#### **GEOLOGIC AGE IDENTIFICATION**

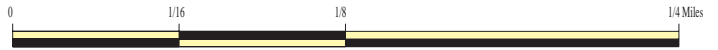
Category: Volcanic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 4441785.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Nabozny Solar Site  
ADDRESS: 101 Woods Hill Road  
Pomfret CT 06259  
LAT/LONG: 41.8309 / 71.9209

CLIENT: Tighe & Bond  
CONTACT: Samantha Avis  
INQUIRY #: 4441785.2s  
DATE: October 19, 2015 7:16 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

#### Soil Map ID: 1

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	29 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
5	29 inches	42 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5
6	42 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

**Soil Map ID: 2**

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	7 inches	14 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	14 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.41 Min: 0.01	Max: 6 Min: 4.5

### Soil Map ID: 3

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	29 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
5	29 inches	42 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5
6	42 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

**Soil Map ID: 4**

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	29 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
5	29 inches	42 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5
6	42 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 5**

Soil Component Name: Ridgebury

Soil Surface Texture: slightly decomposed plant material

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	1 inches	slightly decomposed plant material	Not reported	Not reported	Max: 42 Min: 4	Max: Min:
2	1 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	5 inches	14 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
4	14 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
5	20 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 6**

Soil Component Name: Ridgebury

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 8 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	5 inches	14 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	14 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
4	20 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 7**

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	25 inches	29 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
5	29 inches	42 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
6	42 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.01	Max: 6 Min: 4.5

### Soil Map ID: 8

Soil Component Name: Canton

Soil Surface Texture: moderately decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	1 inches	moderately decomposed plant material	A-8	Highly organic soils, Peat.	Max: 141 Min: 42	Max: 5.5 Min: 3.5
2	1 inches	3 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	3 inches	14 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
4	14 inches	24 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
5	24 inches	29 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
6	29 inches	60 inches	very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5

### Soil Map ID: 9

Soil Component Name: Canton

Soil Surface Texture: moderately decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	1 inches	moderately decomposed plant material	A-8	Highly organic soils, Peat.	Max: 141 Min: 42	Max: 5.5 Min: 3.5
2	1 inches	3 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
3	3 inches	14 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
4	14 inches	24 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
5	24 inches	29 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
6	29 inches	60 inches	very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5

**Soil Map ID: 10**

Soil Component Name: Charlton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 74 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	3 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
4	18 inches	27 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
5	27 inches	64 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	USGS40000229119	1/2 - 1 Mile NE

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

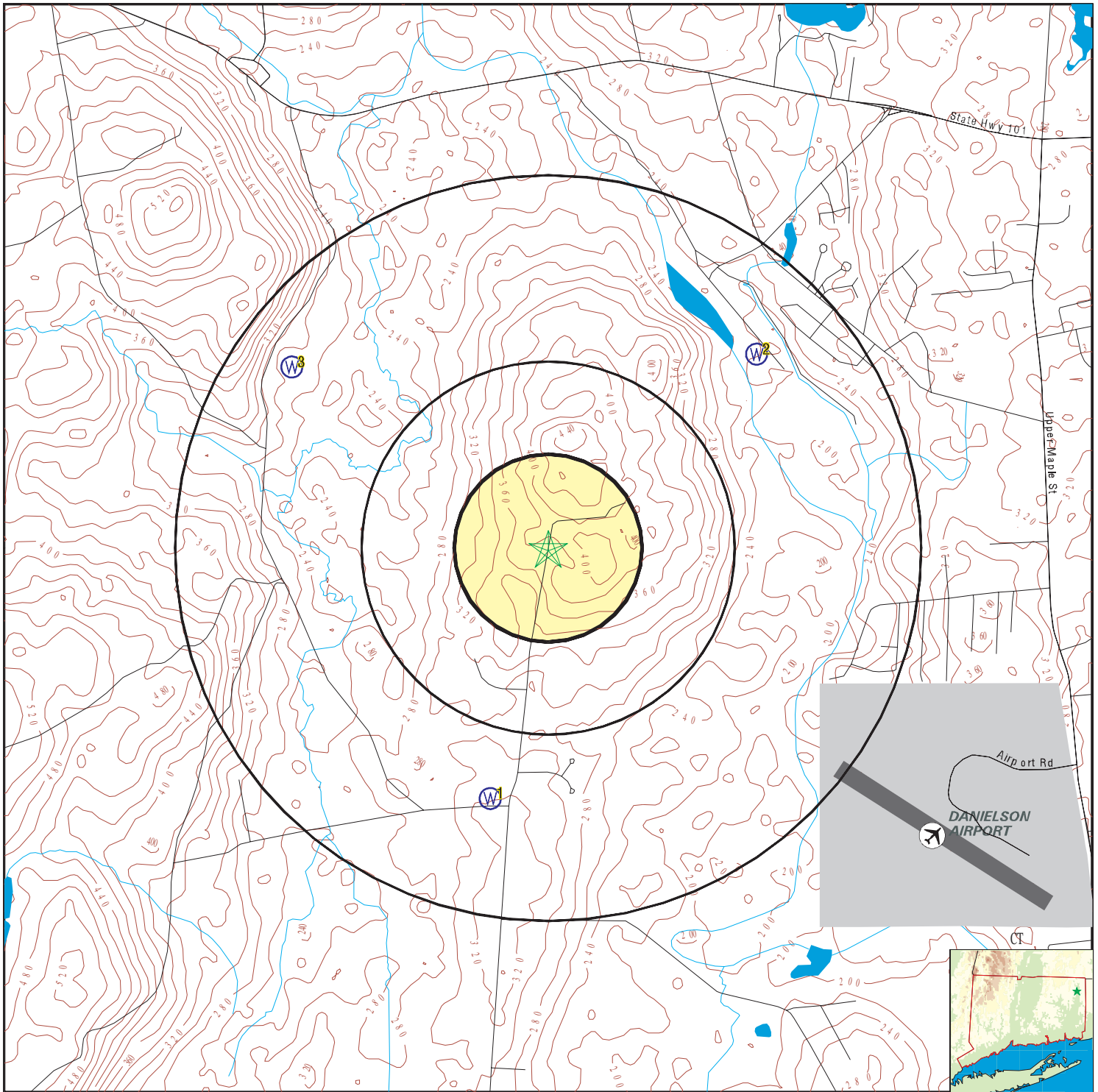
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CTC000000000280	1/2 - 1 Mile SSW
3	CTNC000000000641	1/2 - 1 Mile NW

# PHYSICAL SETTING SOURCE MAP - 4441785.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- EPA Designated Sole Src. Aq.

SITE NAME: Nabozny Solar Site  
 ADDRESS: 101 Woods Hill Road  
 Pomfret CT 06259  
 LAT/LONG: 41.8309 / 71.9209

CLIENT: Tighe & Bond  
 CONTACT: Samantha Avis  
 INQUIRY #: 4441785.2s  
 DATE: October 19, 2015 7:16 pm



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**1**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**CT WELLS      CTC00000000280**

CT Community Well

Well ID:	298	Well Name:	Well 1
Supply System ID:	19005	Supply System Name:	BROOKLYN MANOR
Source Status:	Active	Type:	Drilled
Groundwater Aquifer Type:	Bedrock	GIS Date/Method:	1984 Tablet Digitize
Depth:	280 Feet	Depth to Bedrock:	0 Feet
Well Diameter:	0	Casing Diameter:	0
Pump Capacity:	10	Safe Yield:	.01099

**2**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000229119**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415018071543801		
Monloc name:	CT-KI 10		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01100001	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8384316
Longitude:	-71.9100725	Sourcemap scale:	Not Reported
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	201
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	New England crystalline-rock aquifers		
Formation type:	Non-Carbonate Crystalline Bedrock		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	88
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**3**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**CT WELLS      CTNC00000000641**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### CT Non-Community Well

Well ID: 558  
Supply System ID: 1120332  
Source Status: Active  
Groundwater Aquifer Type: Bedrock  
Depth: 0 Feet  
Well Diameter: 0  
Pump Capacity: 0  
New ID: CT1120332

Well Name: Well  
Supply System Name: The Steak-umm Company, L.L.C.  
Type: Drilled  
GIS Date/Method: 1999 Screen Digitize  
Depth to Bedrock: 0 Feet  
Casing Diameter: 0  
Safe Yield: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CT Radon

### Radon Test Results

City	# Sites	< 4 Pci/L	4 < 10 Pci/L	10 < 20 Pci/L	20 < 50 Pci/L	50 < 100 Pci/L	> 100 Pci/L
Sterling	72	52 (72.2)	13 (18)	4 (5.6)	4 (4.2)	0 (0)	0 (0)
Thompson	2	0 (0)	0 (0)	2 (100)	0 (0)	0 (0)	0 (0)
Willimantic	2	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Windham	82	67 (81.7)	12 (14.6)	3 (3.7)	0 (0)	0 (0)	0 (0)
Woodstock	20	15 (75)	5 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Canterbury	8	4 (50)	1 (12.5)	2 (25)	1 (12.5)	0 (0)	0 (0)
Abington	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Brooklyn	5	3 (60)	2 (40)	0 (0)	0 (0)	0 (0)	0 (0)
Chaplin	97	78 (80.4)	18 (1)	1 (18.6)	0 (0)	0 (0)	0 (0)
Danielson	5	3(60)	1 (20)	1 (20)	0 (0)	0 (0)	0 (0)
Dayville	7	5 (71.4)	2 (28.6)	0 (0)	0 (0)	0 (0)	0 (0)
Hampton	2	1 (50)	0 (0)	0 (0)	1 (50)	0 (0)	0 (0)
Lisbon	3	1 (33.3)	2 (66.7)	0 (0)	0 (0)	0 (0)	0 (0)
Moosup	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
North Windham	6	1 (16.7)	4 (66.7)	1 (16.7)	0 (0)	0 (0)	0 (0)
Pomfret	85	76 (89.4)	6 (7.1)	2 (2.4)	3 (3.5)	0 (0)	0 (0)
Pomfret Center	12	4 (33.3)	7 (58.3)	1 (8.3)	0 (0)	0 (0)	0 (0)
Putnam	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Scotland	22	12 (54.5)	7 (9.1)	1 (4.5)	2 (9.1)	0 (0)	0 (0)
South Windham	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Federal EPA Radon Zone for WINDHAM County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 06259

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.300 pCi/L	50%	50%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Tidal Wetlands

Source: Department of Energy & Environmental Protection

Telephone: 860-424-4054

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Connecticut Leachate and Wastewater Discharge Sites

Source: Department of Environmental Protection

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

#### EPA-Approved Sole Source Aquifers in Connecticut

Source: EPA

Sole source aquifers are defined as an aquifer designated as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for the area and for which there are no reasonable alternative sources should the aquifer become contaminated.

#### Community and Non-Community Water System Wells

Source: Department of Public Health, Water Supplies Section

Telephone: 860-509-7333

Active, emergency and inactive wells used for potable purposes that are owned and operated by active community and non-community water systems in Connecticut.

## OTHER STATE DATABASE INFORMATION

### RADON

#### State Database: CT Radon

Source: Department of Public Health

Telephone: 860-509-7367

Radon Statistical Summary

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### STREET AND ADDRESS INFORMATION

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.5  
October 20, 2015

# The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

### **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1993 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 1320 feet of the target property.

A summary of the information obtained is provided in the text of this report.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	-	-	-	-
2008	Cole Information Services	-	-	-	-
2003	Cole Information Services	-	-	-	-
1998	Cole Information Services	-	-	-	-
1993	Cole Information Services	-	-	-	-

## FINDINGS

### TARGET PROPERTY INFORMATION

#### ADDRESS

101 Woods Hill Road  
Pomfret, CT 06259

#### FINDINGS DETAIL

Target Property research detail.

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

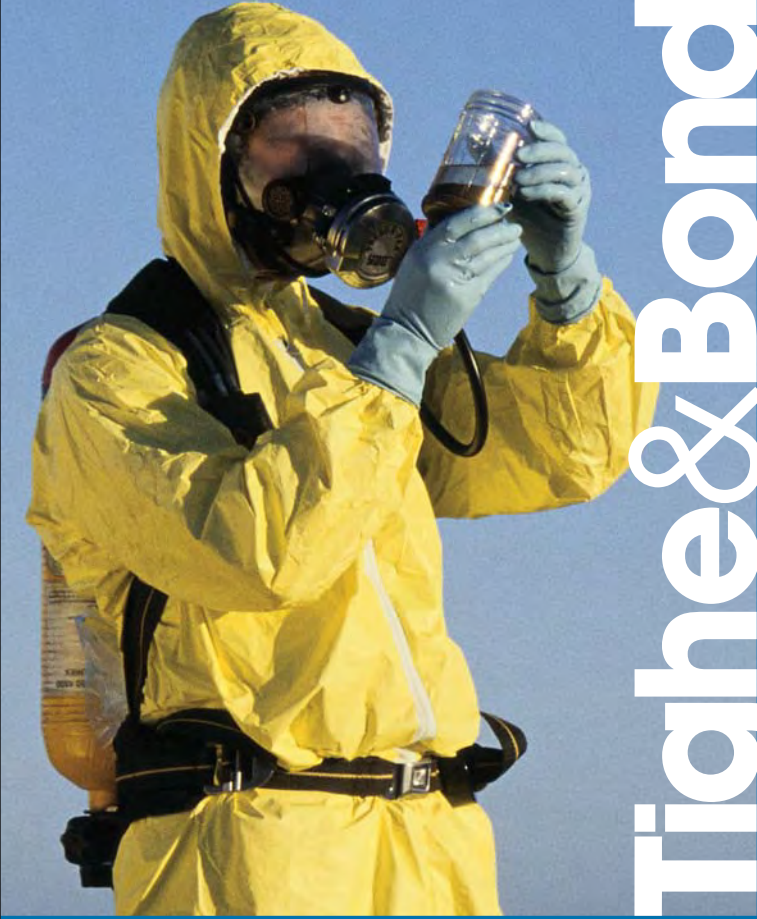
#### Address Researched

101 Woods Hill Road

#### Address Not Identified in Research Source

2013, 2008, 2003, 1998, 1993





# Tighe & Bond



**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.9

October 19, 2015

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

## **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

**Date EDR Searched Historical Sources:**

Aerial Photography October 19, 2015

**Target Property:**

101 Woods Hill Road

Pomfret, CT 06259

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1941	Aerial Photograph. Scale: 1"=750'	Flight Date: November 12, 1941	EDR
1951	Aerial Photograph. Scale: 1"=500'	Flight Date: October 13, 1951	EDR
1951	Aerial Photograph. Scale: 1"=500'	Flight Date: October 13, 1951	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1963	Aerial Photograph. Scale: 1"=250'	Flight Date: October 06, 1963	EDR
1969	Aerial Photograph. Scale: 1"=500'	Flight Date: June 10, 1969	EDR
1969	Aerial Photograph. Scale: 1"=500'	Flight Date: June 10, 1969	EDR
1969	Aerial Photograph. Scale: 1"=500'	Flight Date: June 10, 1969	EDR
1980	Aerial Photograph. Scale: 1"=1000'	Flight Date: March 19, 1980	EDR
1986	Aerial Photograph. Scale: 1"=500'	Flight Date: March 23, 1986	EDR
1986	Aerial Photograph. Scale: 1"=500'	Flight Date: March 23, 1986	EDR
1986	Aerial Photograph. Scale: 1"=500'	Flight Date: March 23, 1986	EDR
1990	Aerial Photograph. Scale: 1"=500'	Flight Date: May 02, 1990	EDR
1990	Aerial Photograph. Scale: 1"=500'	Flight Date: May 02, 1990	EDR
1990	Aerial Photograph. Scale: 1"=500'	Flight Date: May 02, 1990	EDR
1991	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 12, 1991	USGS/DOQQ



<i><b>Year</b></i>	<i><b>Scale</b></i>	<i><b>Details</b></i>	<i><b>Source</b></i>
1991	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 12, 1991	USGS/DOQQ
1991	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 12, 1991	USGS/DOQQ
1991	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 12, 1991	USGS/DOQQ
1996	Aerial Photograph. Scale: 1"=500'	Flight Date: April 15, 1996	EDR
1996	Aerial Photograph. Scale: 1"=500'	Flight Date: April 15, 1996	EDR
1996	Aerial Photograph. Scale: 1"=500'	Flight Date: April 15, 1996	EDR
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

<i><b>Year</b></i>	<i><b>Scale</b></i>	<i><b>Details</b></i>	<i><b>Source</b></i>
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP



**INQUIRY #:** 4441785.9

**YEAR:** 1941

| = 750'







INQUIRY #: 4441785.9

YEAR: 1951

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 1951

| = 500'







INQUIRY #: 4441785.9

YEAR: 1963

| = 250'







INQUIRY #: 4441785.9

YEAR: 1963

| = 250'







INQUIRY #: 4441785.9

YEAR: 1963

| = 250'







60

INQUIRY #: 4441785.9

YEAR: 1963

| = 250'







52

10

10

INQUIRY #: 4441785.9

YEAR: 1963

| = 250'



EDR





INQUIRY #: 4441785.9

YEAR: 1969

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 1969

| = 500'







INQUIRY #: 4441785.9

YEAR: 1969

| = 500'





**INQUIRY #:** 4441785.9

**YEAR:** 1980

| = 1000'







INQUIRY #: 4441785.9

YEAR: 1986

| = 500'







INQUIRY #: 4441785.9

YEAR: 1986

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 1986

| = 500'







INQUIRY #: 4441785.9

YEAR: 1990

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 1990

| = 500'







INQUIRY #: 4441785.9

YEAR: 1990

| = 500'







INQUIRY #: 4441785.9

YEAR: 1991

| = 500'







INQUIRY #: 4441785.9

YEAR: 1991

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 1991

| = 500'







INQUIRY #: 4441785.9

YEAR: 1991

| = 500'





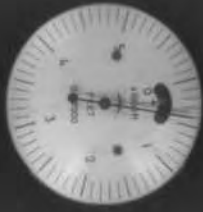


**INQUIRY #:** 4441785.9

**YEAR:** 1996

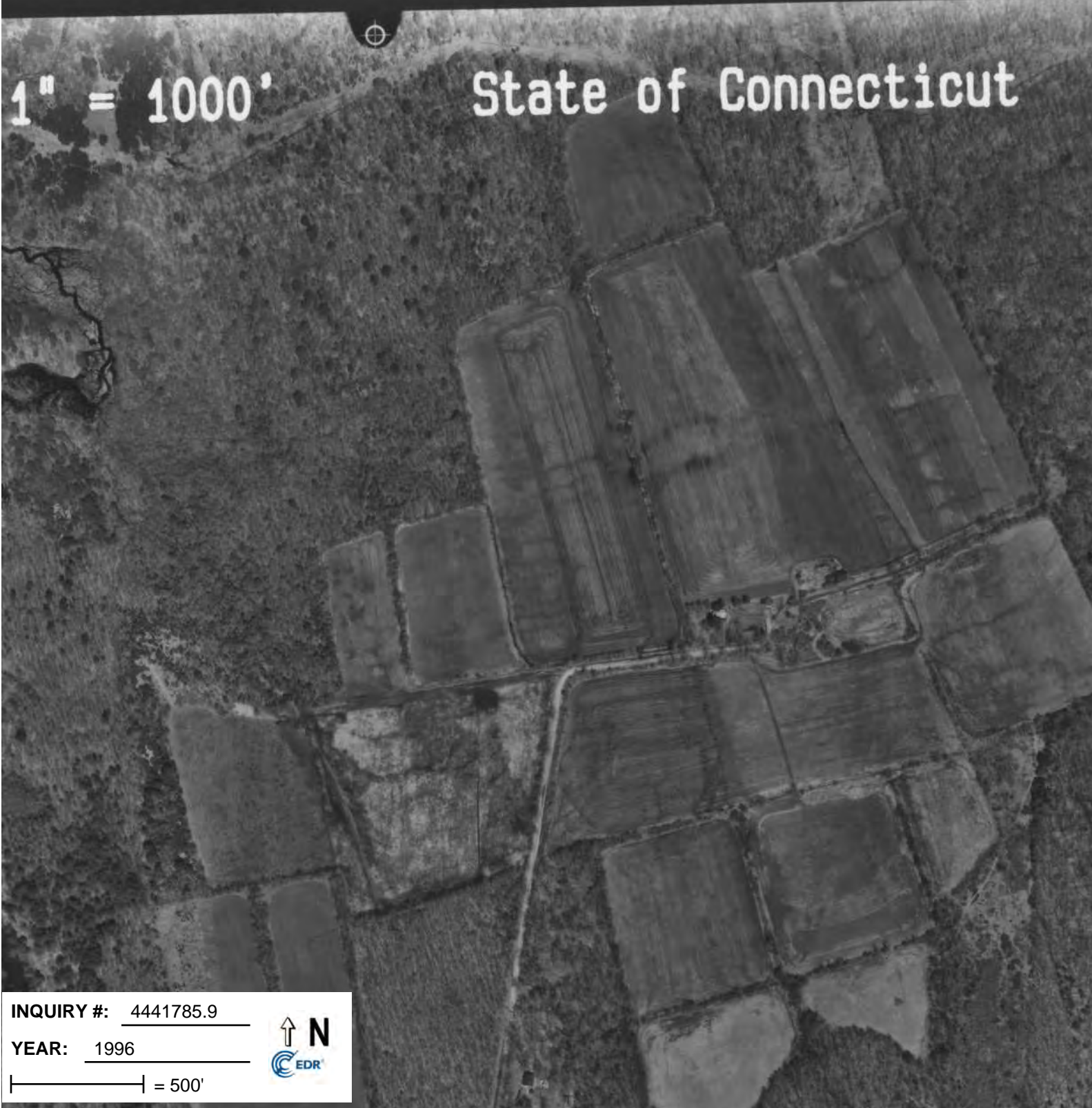
| = 500'





1" = 1000'

# State of Connecticut



INQUIRY #: 4441785.9

YEAR: 1996

| = 500'





1" = 1000'

State of



INQUIRY #: 4441785.9

YEAR: 1996

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2005

| = 500'







INQUIRY #: 4441785.9

YEAR: 2005

| = 500'







INQUIRY #: 4441785.9

YEAR: 2005

| = 500'







INQUIRY #: 4441785.9

YEAR: 2005

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2006

| = 500'







INQUIRY #: 4441785.9

YEAR: 2006

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2006

| = 500'







INQUIRY #: 4441785.9

YEAR: 2006

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2008

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2008

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2008

| = 500'







INQUIRY #: 4441785.9

YEAR: 2008

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2010

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2010

| = 500'







INQUIRY #: 4441785.9

YEAR: 2010

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2010

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2012

| = 500'







INQUIRY #: 4441785.9

YEAR: 2012

| = 500'







**INQUIRY #:** 4441785.9

**YEAR:** 2012

| = 500'







INQUIRY #: 4441785.9

YEAR: 2012

| = 500'







**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.4

October 19, 2015

# EDR Historical Topographic Map Report



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

## **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.


Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



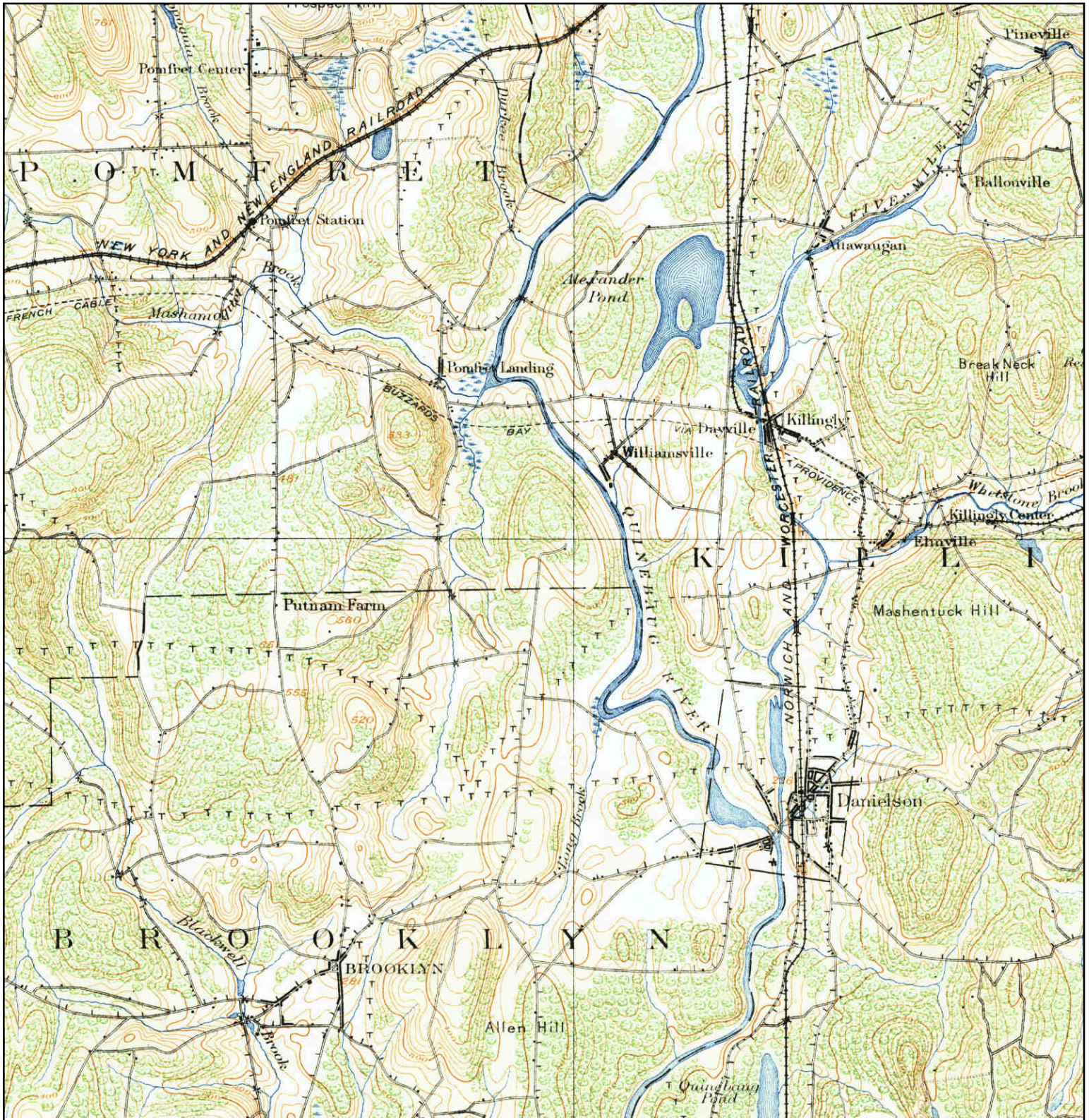
# Historical Topographic Map




<p>N</p> 	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Nabozny Solar Site	<b>CLIENT:</b> Tighe & Bond
	NAME: PUTNAM	ADDRESS: 101 Woods Hill Road	CONTACT: Samantha Avis
	MAP YEAR: 1893	Pomfret, CT 06259	INQUIRY#: 4441785.4
	SERIES: 15	LAT/LONG: 41.8309 / -71.9209	RESEARCH DATE: 10/19/2015
	SCALE: 1:62500		



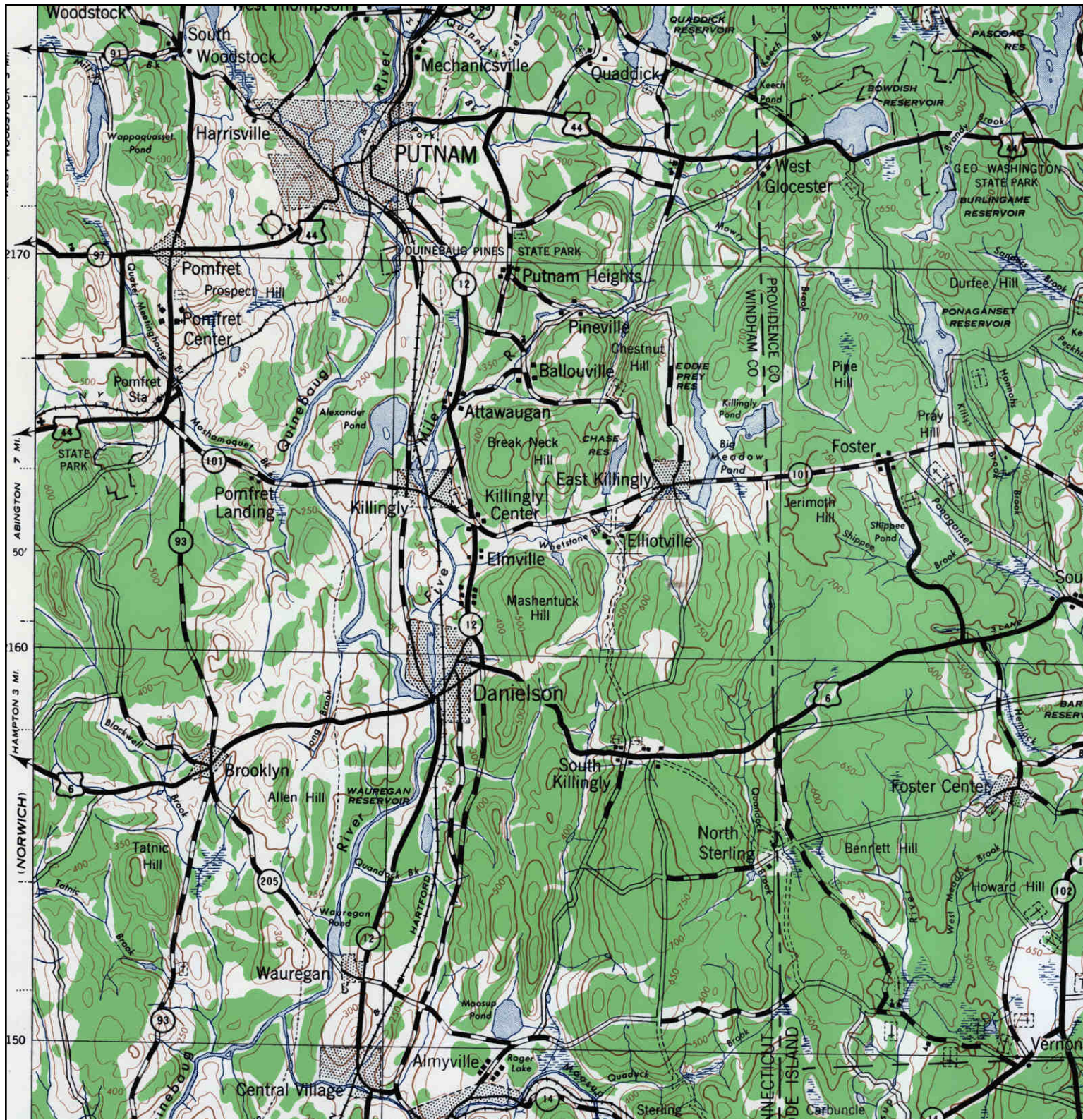
# Historical Topographic Map




	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Nabozny Solar Site	<b>CLIENT:</b> Tighe & Bond
	<b>NAME:</b> PUTNAM	<b>ADDRESS:</b> 101 Woods Hill Road	<b>CONTACT:</b> Samantha Avis
	<b>MAP YEAR:</b> 1915	<b>LAT/LONG:</b> 41.8309 / -71.9209	<b>INQUIRY#:</b> 4441785.4
	<b>SERIES:</b> 15		<b>RESEARCH DATE:</b> 10/19/2015
	<b>SCALE:</b> 1:62500		



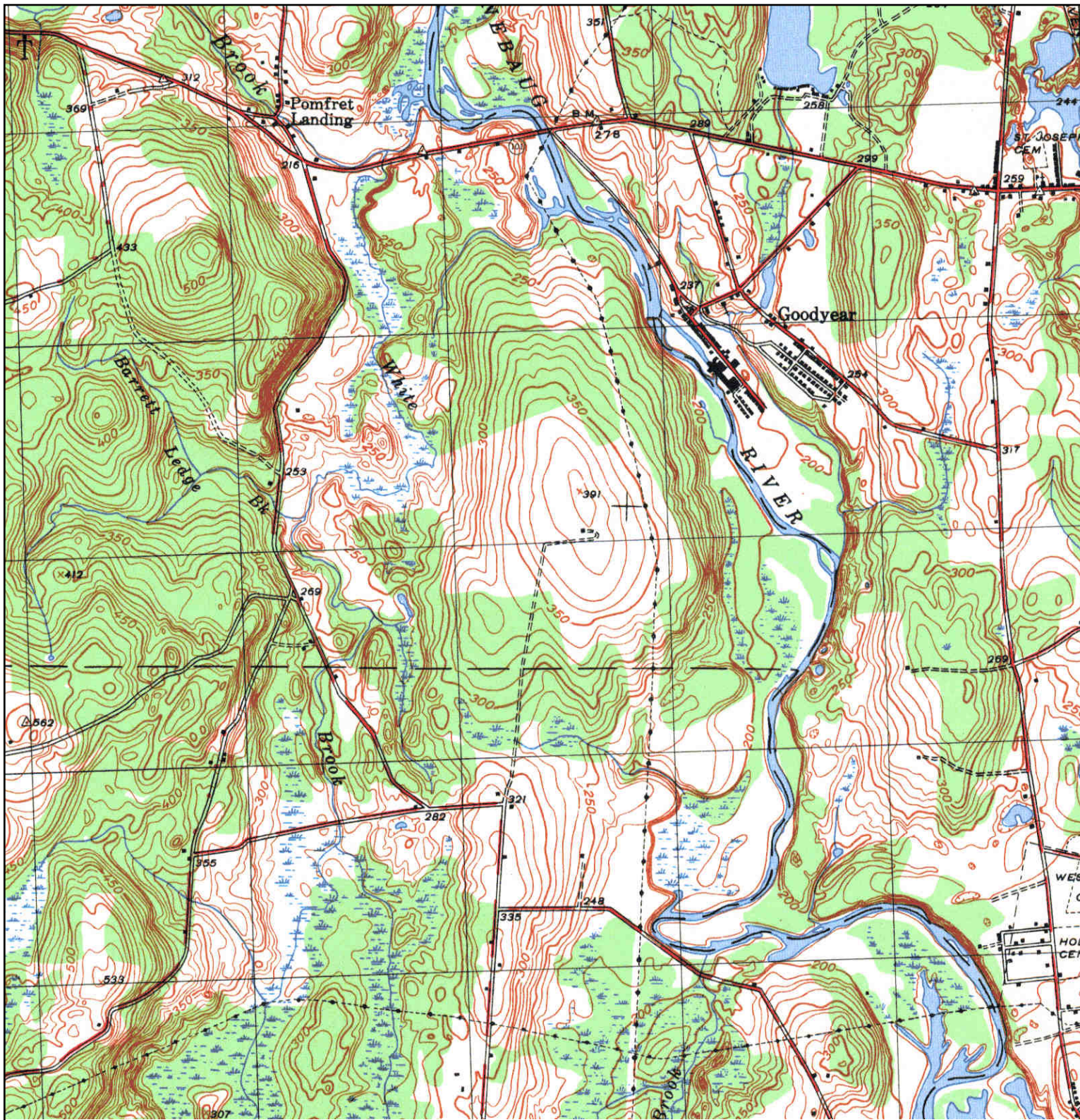
# Historical Topographic Map



<p>N</p> 	<p><b>TARGET QUAD</b>                  NAME: PUTNAM                  MAP YEAR: 1943</p>	<p><b>SITE NAME:</b> Nabozny Solar Site  <b>ADDRESS:</b> 101 Woods Hill Road                  Pomfret, CT 06259  <b>LAT/LONG:</b> 41.8309 / -71.9209</p>	<p><b>CLIENT:</b> Tighe &amp; Bond  <b>CONTACT:</b> Samantha Avis  <b>INQUIRY#:</b> 4441785.4  <b>RESEARCH DATE:</b> 10/19/2015</p>
	<p><b>SERIES:</b> 30  <b>SCALE:</b> 1:125000</p>		



# Historical Topographic Map




<p>N ↑</p>	<p><b>TARGET QUAD</b>                  NAME: DANIELSON                  MAP YEAR: 1947</p>	<p><b>SITE NAME:</b> Nabozny Solar Site  <b>ADDRESS:</b> 101 Woods Hill Road                  Pomfret, CT 06259  <b>LAT/LONG:</b> 41.8309 / -71.9209</p>	<p><b>CLIENT:</b> Tighe &amp; Bond  <b>CONTACT:</b> Samantha Avis  <b>INQUIRY#:</b> 4441785.4  <b>RESEARCH DATE:</b> 10/19/2015</p>
	<p><b>SERIES:</b> 7.5  <b>SCALE:</b> 1:25000</p>		



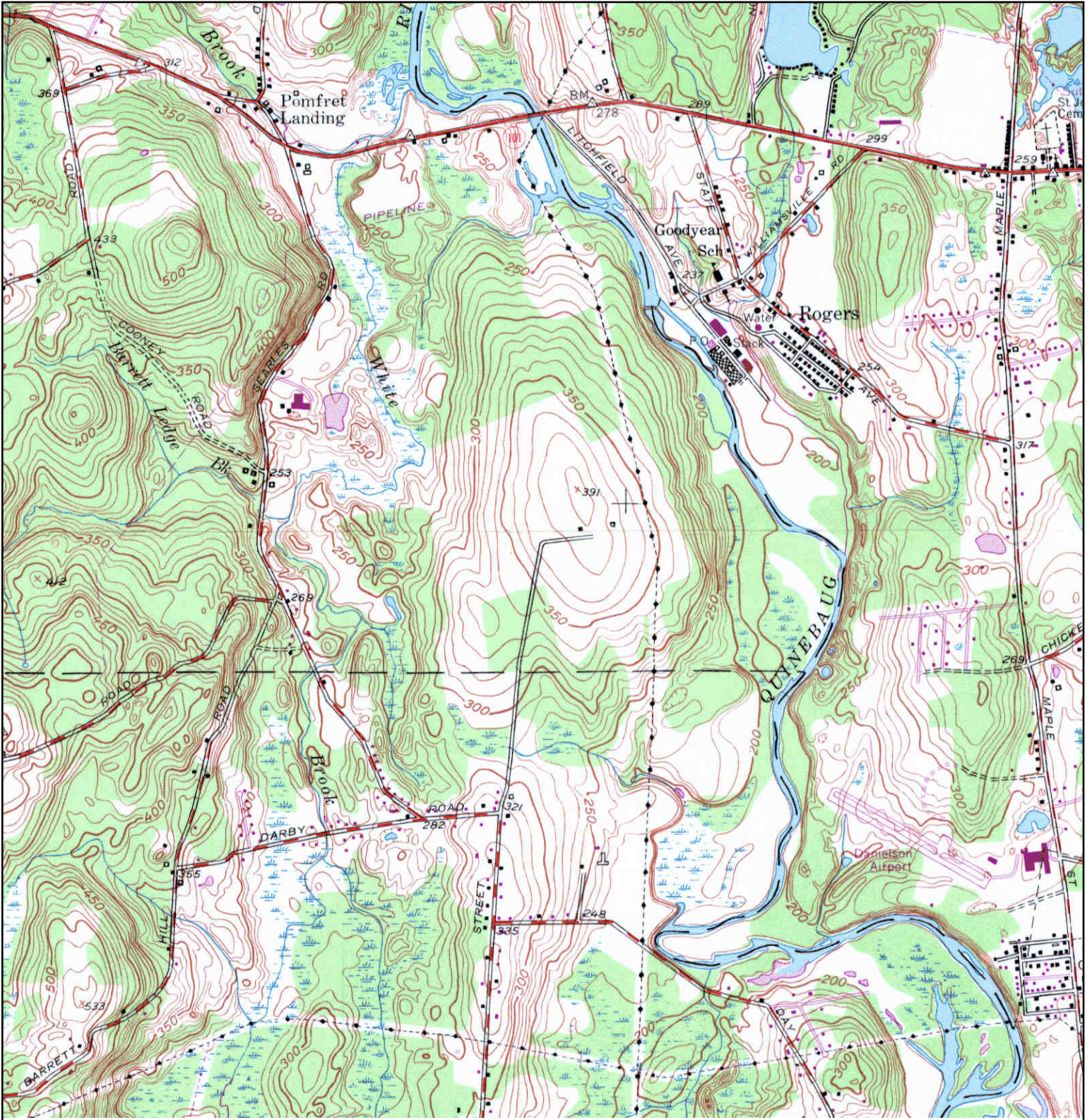
# Historical Topographic Map



	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Nabozny Solar Site	<b>CLIENT:</b> Tighe & Bond
	<b>NAME:</b> DANIELSON	<b>ADDRESS:</b> 101 Woods Hill Road	<b>CONTACT:</b> Samantha Avis
	<b>MAP YEAR:</b> 1955	<b>Pomfret, CT 06259</b>	<b>INQUIRY#:</b> 4441785.4
	<b>SERIES:</b> 7.5	<b>LAT/LONG:</b> 41.8309 / -71.9209	<b>RESEARCH DATE:</b> 10/19/2015
	<b>SCALE:</b> 1:24000		



# Historical Topographic Map



<p>N ↑</p>	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Nabozny Solar Site	<b>CLIENT:</b> Tighe & Bond
	NAME: DANIELSON	<b>ADDRESS:</b> 101 Woods Hill Road	<b>CONTACT:</b> Samantha Avis
	MAP YEAR: 1970	Pomfret, CT 06259	<b>INQUIRY#:</b> 4441785.4
	PHOTOREVISED FROM :1955	<b>LAT/LONG:</b> 41.8309 / -71.9209	<b>RESEARCH DATE:</b> 10/19/2015
	SERIES: 7.5		
	SCALE: 1:24000		





**Nabozny Solar Site**

101 Woods Hill Road  
Pomfret, CT 06259

Inquiry Number: 4441785.3

October 19, 2015

# Certified Sanborn® Map Report



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# Certified Sanborn® Map Report

10/19/15

**Site Name:**

Nabozny Solar Site  
101 Woods Hill Road  
Pomfret, CT 06259

**Client Name:**

Tighe & Bond  
213 Court Street  
Middletown, CT 06457



EDR Inquiry # 4441785.3

Contact: Samantha Avis

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Tighe & Bond were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Site Name:** Nabozny Solar Site  
**Address:** 101 Woods Hill Road  
**City, State, Zip:** Pomfret, CT 06259  
**Cross Street:**  
**P.O. #** S1992  
**Project:** Nabozny Solar Site  
**Certification #** D6E4-4E66-A5F1



Sanborn® Library search results  
Certification # D6E4-4E66-A5F1

## UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

## Limited Permission To Make Copies

Tighe & Bond (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

### Disclaimer - Copyright and Trademark notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2015 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.