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March 27, 2017

**VIA HAND DELIVERY**

Melanie Bachman  
Acting Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**Re: Petitions of LSE Canes Venatici LLC and LSE Coma Berenices LLC for a Declaratory Ruling that No Certificate of Environmental Compatibility and Public Need Is Required for the Construction, Operation and Maintenance of Solar Photovoltaic Facilities in East Windsor, Connecticut**

Dear Ms. Bachman:

My clients, LSE Canes Venatici LLC and LSE Coma Berenices LLC are filing the two petitions for declaratory ruling as described in the caption above. Both companies are subsidiaries of Lodestar Energy LLC, and each project calls for the construction of a 2 MW AC solar photovoltaic facility to be located adjacent to a closed landfill located at 84 Wapping Road in East Windsor, Connecticut.

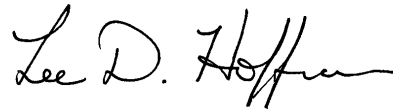
Because the projects are located on different parcels with different environmental configurations/impacts, the projects have been submitted to the Council as two petitions. However, the witnesses and personnel associated with both projects are the same, and the projects are both located in the same area of East Windsor. Therefore, we have designated the projects as Norcap North and Norcap South, and have no objection to the Council consolidating any site visits or hearings so that both projects are handled contemporaneously.

An original and 15 copies of each petition is included. In addition, three copies of full-size drawings are included with this submittal, as is a CD with electronic copies of each petition. A check for \$1,250.00 is also included as the filing fee for both petitions.

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If you have any questions concerning this submittal, please contact the undersigned at your convenience. We look forward to working with the Council to process these petitions.

Sincerely,

A handwritten signature in black ink that reads "Lee D. Hoffman". The signature is written in a cursive style with a large initial "L" and a long horizontal flourish at the end.

Lee D. Hoffman

Enclosures

ACTIVE/77284.1/LHOFFMAN/6494750v1

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

PETITION OF LSE COMA BERENICES LLC  
FOR A DECLARATORY RULING THAT NO  
CERTIFICATE OF ENVIRONMENTAL  
COMPATIBILITY AND PUBLIC NEED IS  
REQUIRED FOR THE CONSTRUCTION,  
OPERATION, AND MAINTENANCE OF A 2  
MW AC SOLAR PHOTOVOLTAIC FACILITY  
IN EAST WINDSOR, CONNECTICUT

PETITION NO \_\_\_\_\_

MARCH 27, 2017



**NORCAP SOUTH**

84 WAPPING ROAD  
EAST WINDSOR, CONNECTICUT

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## **EXHIBIT LIST**

1. Vicinity Map
2. Land Use Map
3. Site Plans
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5. Environmental Site Assessment
6. Nearby Residences Map
7. Visual Effects
8. FEMA Flood Map
9. Aquifer Protection Map
10. State Historic Preservation Office Submittal
11. State Historic Preservation Office Response

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**NORCAP SOUTH**

**84 WAPPING ROAD  
EAST WINDSOR, CONNECTICUT**

## I INTRODUCTION

Pursuant to Conn. Gen. Stat. §§ 4-176 and 16-50k(a) and Conn. Agencies Regs. § 16-50j-38 *et seq.*, LSE Coma Berenices LLC, a subsidiary of Lodestar Energy LLC, ("Lodestar" or "Company") requests that the Connecticut Siting Council ("Council") approve by declaratory ruling the location, construction, operation, and maintenance of a solar photovoltaic facility capable of up to 2 MW AC, and associated equipment (known as the NORCAP South Project or "Project") consisting of approximately 10 acres of solar panels to be constructed within a 11.20 acre lease area located at 84 Wapping Road in East Windsor, Connecticut (the "Project Site").

Conn. Gen. Stat. § 16-50k(a) provides:

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 customer-side distributed resources project or facility or 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 Energy and Environmental Protection.

As discussed in this Petition, the Lodestar Energy LLC's goal is to design an environmentally-compatible project that produces the maximum amount of energy while avoiding or minimizing adverse environmental impacts. Based on the evaluation presented in this Petition, the Project is not expected to cause any significant adverse environmental impacts to the immediate and surrounding area. Accordingly, the construction, operation, and maintenance of the Project satisfies the criteria of Conn. Gen. Stat. § 16-50k(a).

## II PETITIONER

Lodestar Energy LLC is a Connecticut-based developer of renewable energy projects having its principal place of business at 3 Ellsworth Place, Suite 122, Avon, Connecticut 06001. Lodestar will lead the Project construction and development. Members of Lodestar's team have worked with utilities, school districts, cities, counties, commercial businesses, industrial clients and many others to develop more than 500 MW of solar projects with a value of more than \$1 billion across North America during the course of their careers in the renewable energy industry.

The representatives of Lodestar that will be most active with respect to this Petition are Jeffrey Macel, one of the principals and co-founders of Lodestar Energy LLC, along with John Switzer, who recently joined the Lodestar team. Please address all correspondence and/or communications regarding this Petition to them as follows:

Jeffrey J. Macel  
Lodestar Energy LLC  
3 Ellsworth Place, Suite 122  
Avon, CT 06001  
[jmacel@lodestarenergy.com](mailto:jmacel@lodestarenergy.com)

John H. Switzer  
Lodestar Energy LLC  
43 N. Moore Street  
New York, NY 10013  
[jswitzer@lodestarenergy.com](mailto:jswitzer@lodestarenergy.com)

Please also provide a copy of all such correspondence and/or communications to the Company's counsel as follows:

Lee D. Hoffman  
Pullman & Comley, LLC  
90 State House Square  
Hartford, CT 06103  
860-424-4315 (tele.)  
860-424-4370 (fax)  
[lhoffman@pullcom.com](mailto:lhoffman@pullcom.com)



### **III PROPOSED PROJECT**

#### **A. PROJECT BACKGROUND**

In developing this Project, the Company has taken into account the State's energy policy to "develop and utilize renewable energy resources, such as solar and wind energy, to the maximum practicable extent." Conn. Gen. Stat. § 16a-35k. As a solar development, the proposed Project is considered a Class I renewable energy source under General Statutes § 16- 1(a)(26).

The Project creates several benefits for the Town of East Windsor, the State of Connecticut and their residents. First, the Project will return currently unused land to productive use. Over the course of a 20-year lease between the Company and the landowner, the Project will produce income in the form of rent for the landowner and a predictable tax base for the Town. When the solar array is removed from the Property upon expiration of the lease, the prior agricultural use of the Property can resume, if so desired. It should be noted, however, that the Project will be a participant in the state's Agricultural Virtual Net Metering Program. In addition, during its lifespan, the Project will help to reduce greenhouse gas emissions and pollutants.

#### **B. SITE SELECTION**

The Company based the site selection process for the Project on a detailed evaluation of the following key criteria:

- Site suitability (size, topography, and apparent lack of biological and hydrological conflicts in initial fatal flaw screening);
- Site availability and mutual benefits (ability to come to suitable lease terms with land owner; utilizing otherwise unusable land); and

- Proposed cost of interconnecting to and proximity to critical infrastructure (suitable electrical grid access).

After performing an initial site evaluation, the Company began a preliminary design of a site layout that would best minimize negative environmental impacts. The Company conducted further diligence on the Project Site, negotiated fair and reasonable taxation terms with the Town, and entered into a contract option to lease the land. The Company performed significant public outreach within Town government (as delineated in Section III. F. below), including meeting with the Conservation Commission, the Zoning and Planning Commission and the East Windsor Board of Selectmen. The Company retained the following consultants to assist in the evaluation and design of the Project:

- Raber Associates - Archaeologist
- Rema Ecological Services - Wildlife Biologist
- J.R. Russo & Associates - Civil Engineering/ Land Surveying/ Planning
- Highland Soils - Wetland Report and Functional Assessment
- Power Engineers, LLC - Electrical Design and Utility Interconnection
- GeoQuest - Phase I Environmental Site Assessment

When evaluating the proposed Project Site, it is clear that there is an abandoned landfill immediately adjacent to the Project Site. The abandoned landfill area was considered for the Project, however, that location was ultimately not selected. While abandoned landfills are frequently appropriate sites for solar development, there are several reasons why the siting of the proposed solar array on top of the existing capped landfill was not pursued. These include but are not limited to:

- Limited area on top of the landfill with slope flat enough for a solar array;
- Difficulty in providing an access road to top of landfill cap for construction and future maintenance;
- Higher elevation would result in greater visibility from surrounding roads and residences; and
- Difficulty in constructing foundations for solar array, fencing supporting electrical equipment and electrical conduit without compromising the landfill cap.

Ultimately, the Project Site provides many benefits in terms of land re-use that more than compensate for the inability of the Project to use the capped landfill for the Project. As such, the Project believes that the site that has been selected is appropriate for solar development.

### **C. PROPERTY DESCRIPTION**

The Project Site consists of approximately 11.2 acres of undeveloped land, part of a larger 42-acre parcel located on the west side of Wapping Road across from the intersection with Miller Road in East Windsor, Connecticut. A Vicinity Map is provided as Exhibit 1. The property is owned by the Northern Capital Region Disposal Facility, Inc. (“NORCAP”). The site is bounded to the north by an existing capped landfill on other land owned by NORCAP, to the west by the Central New England Railroad, to the southwest by an industrial use, to the south by a former tree farm and agricultural land, and to the east by Wapping Road. Exhibit 2 includes a Land Use Map which depicts the surrounding land uses within one-half mile of the site.

The Project Site is located on the eastern portion of the property adjacent to Wapping Road. The Project Site is accessible from Wapping Road via an existing gravel driveway. With the exception of the very southern wooded fringe of the proposed development, the site has been

historically mined for gravel. An earthen berm planted with arborvitaes exists along the Wapping Road frontage. Greater of detail of the area in the immediate vicinity of the site is shown on the Overall Site Plan, included in Exhibit 3.

Of the 11.20-acre subject site, approximately 4.6 acres is currently maintained as hay field, approximately 1.4 acres is wooded (but with “second growth” woods only), and the remaining 5.24 acres consists of exposed soils and stockpiles associated with an active gravel mining operation. The hay field was formerly mined for gravel, but has recently been restored with vegetation to prevent erosion within the last couple of years. As such, the Project will put currently unused lands back into productive use.

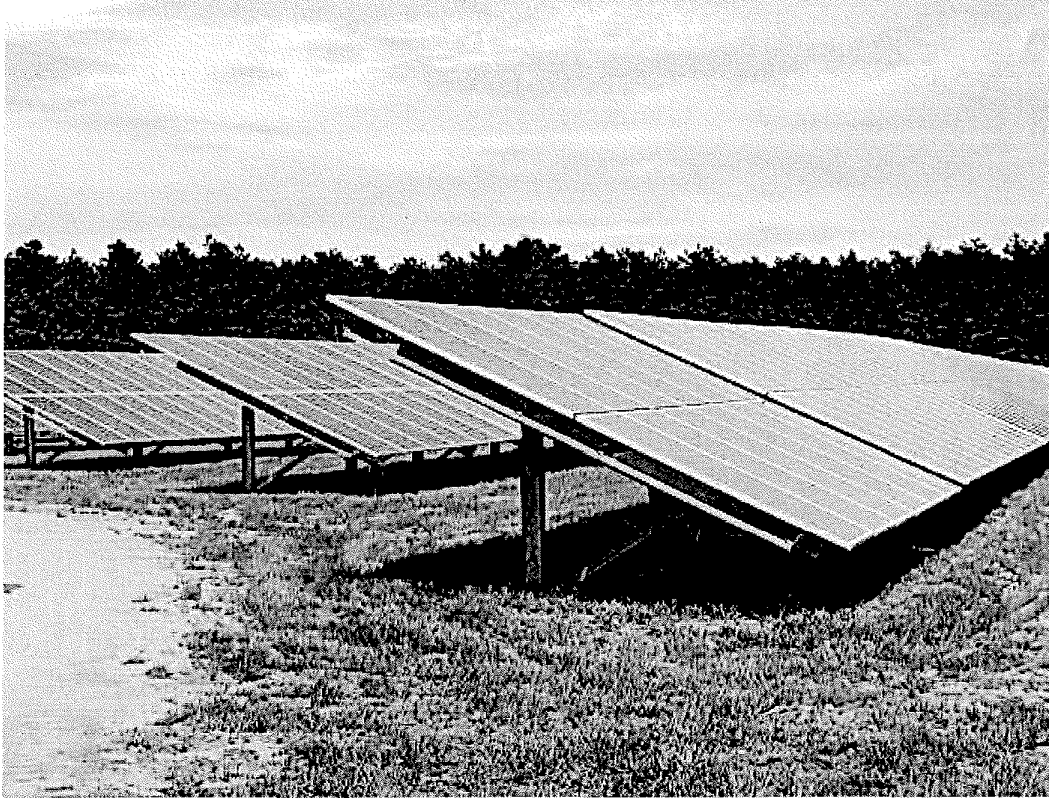
Although the land is owned by an entity that engages in commercial agriculture, and the property itself has been used for agricultural uses in the past, the gravel mining that has taken place at the site limits the potential agricultural uses of the Project Site in the future. Because the Project will be participating in the State’s Agricultural Virtual Net Metering Program, the Project will have the salutary benefit of assisting the agricultural host with its agricultural business.

#### **D. PROJECT DESCRIPTION**

If this Project is approved by the Siting Council, Lodestar Energy LLC will enter into a lease agreement with NORCAP that will give it the right to construct, operate, and maintain the solar farm at the Project Site. The Project will involve the

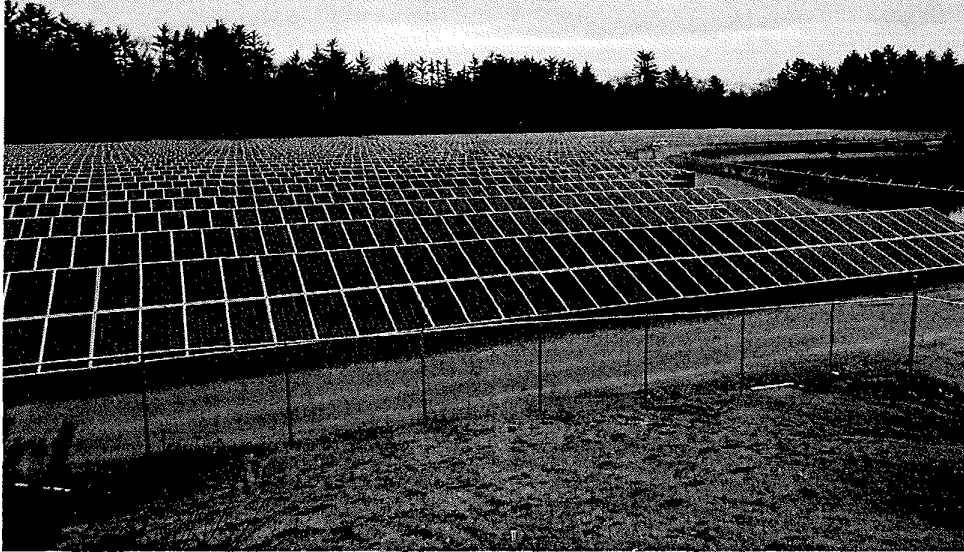
construction of approximately 10 acres of ground-mounted solar photovoltaic panels and improvements to an existing gravel driveway to provide access to the site from Wapping Road. The work will include clearing and grubbing; grading; construction of access roads; layout and placement of foundation systems, racking, approximately 9,288 solar PV panels and 34 string inverters; installation of utility pads and associated electrical equipment; installation of electrical conduit, conduit supports, electrical poles, and overhead wire; installation of a transmission line and associated transmission line tap; and installation of security fencing. The access road will be improved and widened in accordance with local requirements to accommodate emergency vehicles and fire trucks. The security fence will completely enclose the PV facilities and will consist of an 8-foot chain-link fence with gated access.

The PV panels and inverters will be mounted on a driven post racking system at a 25-degree tilt facing due south. Inverters will be mounted to the racking system, underneath the PV panels. The maximum height of the panels will be approximately 8 feet. The image on the next page is an example of the type of panels and racking system that will be utilized.



Grading is required at the Project Site, and removal of some trees will be necessary to prepare the array location for equipment installation, as well as to maximize the electrical production of the system. At the end of the operational life of the Project, the Company will remove all equipment (e.g. racking system, panels, inverters, electrical collection system, etc.) from the Project Site.

The Company will install the facilities in the area shown on the Site Plans in Exhibit 3. The image below is an example of a similar solar array field installed by the Company.



The Project construction period is estimated to take between four to six months once a Notice to Proceed has been issued. The Project is anticipated to be constructed according to the following schedule:

<b>Task</b>	<b>Duration</b>
Mobilization and Site Preparation	2 weeks
Civil Work: Road construction, tree clearing, grading	6 weeks
Racking, Panel, & Electrical Installation	8 weeks
Interconnection and Medium Voltage	2 weeks
System Testing	1 week
Approvals & Commissioning	2 weeks

## **E. INTERCONNECTION**

The Company proposes interconnecting the Project to an existing 23kV overhead circuit that runs along Wapping Road, which is part of Eversource's distribution system. The interconnection will require the installation of new poles extending from the existing utility pole, located on the west side of Wapping Road at the entrance to the NORCAP access road, to the array location on the west side of the property. Eversource will own and install a pole mount recloser on the first new pole and an overhead primary metering cluster on the second new pole. The point of common coupling will be on the load side of the primary metering cluster. The Company will install an overhead 3-phase 23kV line running approximately 300 feet from the point of common coupling to the array location. The extension will follow the path of the access road with poles installed adjacent to the access road. The overhead portion of the extension will end at a riser pole at the array location where a pole mounted group operated disconnect will be installed by the Company. The extension will continue underground from the last riser pole to the pad mounted switchgear installed at the array location.

## **F. LOCAL INPUT AND NOTICE**

The Company has actively sought input and approval from the Town of East Windsor throughout the planning and development of this Project, and remains committed to providing the Town with as much information regarding the Project as possible. In support of this goal, the Company:

- Attended the East Windsor Inland Wetland Watercourse Agency meeting on December 7, 2016, to present the Project site plan and solicit feedback;



- Attended the East Windsor Planning & Zoning Commission meeting on December 13, 2016, to present the Project site plan and solicit feedback;
- Attended the East Windsor Selectmen's meeting on December 20, 2016, to present the Project site plan and solicit feedback; and
- Will be providing a copy of this entire Petition to the Town of East Windsor concurrently with the submittal of this Petition to the Siting Council.

Additionally, as required by the Regulations of Connecticut State Agencies § 16-50j-40(a), the Company provided notice of this petition to all required persons and appropriate municipal officials and governmental agencies. Attached, as Exhibit 4, is a copy of the notice of service and a service list.

Additionally, the Company provided notice to the following Town officials:

- First Selectman Robert Maynard
- Alan Baker, Chairman Inland Wetlands Watercourse Agency
- Joseph Oullette, Chairman, Zoning and Planning Commission

#### **IV POTENTIAL ENVIRONMENTAL IMPACTS**

On behalf of the Company, GeoQuest, Inc. conducted a comprehensive Phase I Environmental Site Assessment ("ESA"). (Attached as Exhibit 5.) The Company consulted the East Windsor Conservation Commission and other relevant agencies, evaluated potential environmental impacts, and analyzed potential visual impacts to nearby residences. In addition to the completion of the ESA, the Company engaged other environmental consultants to evaluate the potential for environmental impacts associated with the Project. Through the use of these consultants, and as explained in further detail below, this Project avoids, reduces, and mitigates potential environmental impacts.

**A. ENVIRONMENTAL SITE ASSESSMENT**

GeoQuest, Inc. performed a Phase I Environmental Site Assessment ("ESA") of the Project Site, in conformance with ASTM E 1527-13. The ESA concluded that the Project Site contained no recognized environmental conditions. Accordingly, GeoQuest concluded that no additional investigation or action was required at the Project Site. *See Exhibit 5.*

**B. AIR QUALITY**

The Project will have no air emissions during operation and only very minor air emissions of regulated air pollutants and greenhouse gases during construction. The Company will control any temporary emissions at the Project Site by enacting appropriate mitigation measures (e.g., water for dust control; avoiding mass early morning vehicle startups, etc.)

Accordingly, any potential air effects produced by the Project's construction activities will be *de minimis*. During operation, the Project is not anticipated to produce measurable volumes of regulated air pollutants or greenhouse gases (e.g., PM, VOCs, GHG or Ozone). No air permit will be required for either construction or operation of the Project.

**C. BIOLOGICAL RESOURCES**

A review of the Natural Diversity Database (NDDDB) Area map dated December 2016 was reviewed and revealed that the Project Site is not located within an area identified to potentially have any State and Federal Listed Species & Significant Natural Communities. Based on the results of this preliminary screening, no further investigation into the presence of endangered species was required.

#### **D. WETLANDS**

The site was investigated for the presence of state and federal wetlands by Highland Soils, Inc. in April of 2016. No wetlands or watercourses were identified on or adjacent to the subject property. Furthermore, all runoff from the site is contained on the site where it infiltrates back into the ground. As a result, the proposed project is not anticipated to have any impacts on wetland resources.

#### **E. STORMWATER MANAGEMENT**

The majority of the Project Site currently consists of exposed, un-vegetated soil remaining from the former gravel removal operation. Runoff from the site currently results in sheet flows westerly to the low spot within the gravel pit where it ponds and eventually infiltrates back into the sandy soils. As a result of the grading at the subject property, there is currently no discharge of runoff to surrounding wetlands or watercourses.

The development of the site will result in disturbance of approximately 12 acres of land for grading and installation of the solar arrays. The majority of this disturbance will be in areas previously disturbed by historic gravel mining operations. The drainage patterns for the proposed development will mimic the existing drainage patterns with sheet flow overland to the existing low spot on the subject property. As a result, all runoff from the Project Site will be contained, and there will be no runoff discharge from the site. Thus, the completed development is not anticipated to have an adverse impact to the surrounding water and wetland resources. Because there is no stormwater discharge from the subject site, registration under the DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities is not required.

## **F. FLOODPLAINS**

The attached Federal Emergency Management Agency (FEMA) Flood Map (included as Exhibit 8) indicates that no portion of the Project Site is located within the 100-year flood zone or special flood hazard areas.

## **G. DRINKING WATER RESOURCES**

A review of the Connecticut Aquifer Protection Area Map prepared by the CT DEEP Bureau of Water Protection and Land Reuse (attached as Exhibit 9) identifies a mapped Level A aquifer protection area approximately 3,700 feet north of the Project Site. The aquifer protection area is located on the opposite side of the Ketch Brook, which is expected to act as a groundwater divide separating the groundwater beneath the site from aquifer. Based on the separation distance and presence of Ketch Brook, the proposed project is not anticipated to have an impact on the Aquifer Protection Area.

The surrounding properties on Wapping Road are served by private wells. However, the distance from the Project Site to the nearest residential property potentially served by a well is in excess of 300 feet. The proposed activities associated with the proposed project do not involve the withdrawal of water, nor the storage or use of oil or hazardous materials (other than what is present in the construction equipment). Thus, the proposed project is not anticipated to have an impact on any surrounding drinking water supplies. Furthermore, the Project Site is located adjacent to a capped landfill, which is known to have historically adversely impacted the water table in the immediate area. The presence of existing background contamination minimizes any potential additional impacts from the proposed project.

## **H. HISTORIC RESOURCES**

The Petitioner retained Raber Associates, an archeologist recognized by the Connecticut State Historic Preservation Office (SHPO) to perform a cultural resources assessment and reconnaissance survey at the Project Site. Raber Associates completed the assessment and concluded that the proposed Project will have no effects on any cultural resources listed, eligible, or potentially eligible for the national or state registers of historic places (*See* Exhibit 10). The response that the Project received from SHPO is included as Exhibit 11. In that response, SHPO has concurred with the findings from Raber Associates.

## **I. SCENIC VALUES AND VISUAL EFFECTS**

The Project is located along Wapping Road and separated from the street by an existing berm and evergreen plantings. Photographs of this existing visual buffer were taken from the viewpoints shown in the Nearby Residences Map (Exhibit 6) and the resulting views are depicted in the photographs included as Exhibit 7. Where tree clearing is proposed along the southern edge of the project near the road, an earthen berm and vegetative evergreen screen will be installed as indicated on the Site Plan to minimize visual impacts to the roadway. As a result of the existing and proposed visual buffers, views of the Project from Wapping Road will be minor and limited to passing traffic.

The nearest sensitive visual receptors to the Project were determined to be existing residential houses at least 850 feet to the east of the site on Graham Road and Miller Road. This large distance, as well as the presence of existing commercial buildings and evergreen plantings between these residences and the site, will minimize the visual impacts

to these properties. In addition, the use of low profile Project components (e.g., racking system, panels, inverters, etc.) significantly reduces potential visible impact.

#### **J. PUBLIC HEALTH AND SAFETY**

The Company is firmly committed to the safe construction and operation of its Project. Overall, the Project will meet or exceed all health and safety requirements applicable for electric power generation. Each employee working on the Project Site will:

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

During construction, heavy equipment will be required to access the Project Site and higher levels of noise are anticipated; however, the Company will conduct all activities during normal working hours.

#### **K. FEDERAL AVIATION ADMINISTRATION DETERMINATIONS**

Pursuant to 14 CFR § 77.9 regarding the Federal Aviation Administration (FAA) Notice of Proposed Construction or Alteration, the FAA must be notified of "any construction or alteration that exceeds an imaginary surface extending outward and upward at a slope of 100 to 1 for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of the airport." 14 CFR § 77.9(b)(1) The northern property

line of the Project Site is approximately 18,000 feet from the southeastern end of the runway at Skylark Airpark. The Project's nearest panel is approximately another 15 feet+/- from the Project Site's property line. Thus, the closest structure (a PV panel) will be approximately 18,015 feet from the end of the runway.

However, the elevation at the end of the runway is about 121 feet. The elevation of the ground surface at the highest point where the Company is installing PV panels is approximately 185 feet. Even if the panels were to extend fifteen feet high (to elevation 200), the difference in elevation is only 79 feet over the 18,015 feet. Thus, the array's highest structure does not rise above the limiting 100:1 slope, which at a distance of 18,015 feet would be elevation 301 feet ( $121 \text{ feet} + 18,015 \text{ feet}/100$ ). Accordingly, when considering either the Project's distance to the end of the runway or the elevation of the Project's site in relation to the end of the runway, the Company is not required to file a notice with the FAA.

#### **L. CARBON DEBT ANALYSIS**

Lodestar Energy LLC performed an analysis using data from the Center for Urban Forest Research and US EPA to determine whether the proposed Project has the ability to produce a net improvement in carbon reduction compared to the loss of approximately 1.4 acres of forested land as required to prepare the site for construction and to prevent system shading. The analysis accounts for the loss of the trees, the carbon associated with the manufacture of the solar panels and related equipment, the carbon associated with the installation activity, and the carbon associated with the operations and maintenance of the system. The results indicate that the Project will have a payoff period of approximately 3.5 years to overcome the carbon debt

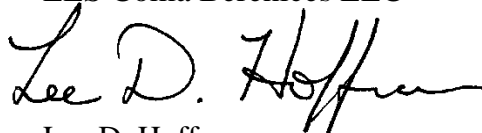
incurred by the removal of trees. After that time, the results indicate that installation of the Project would result in a significant net improvement in overall carbon reduction over existing conditions at the Project Site. In other words, after the 3.5-year payback, the Project will produce a net-positive reduction in atmospheric carbon for the remaining years in its useful operational life.

## V CONCLUSION

The Project, which is a grid-side distributed resources project with a capacity of less than 65 MW, is among the types of projects that the Council can approve by declaratory ruling. Based on the information provided in this Petition, Lodestar Energy LLC believes that it has adequately addressed any potential environmental impacts associated with the Project, and that the Project is appropriate for approval by the Council.

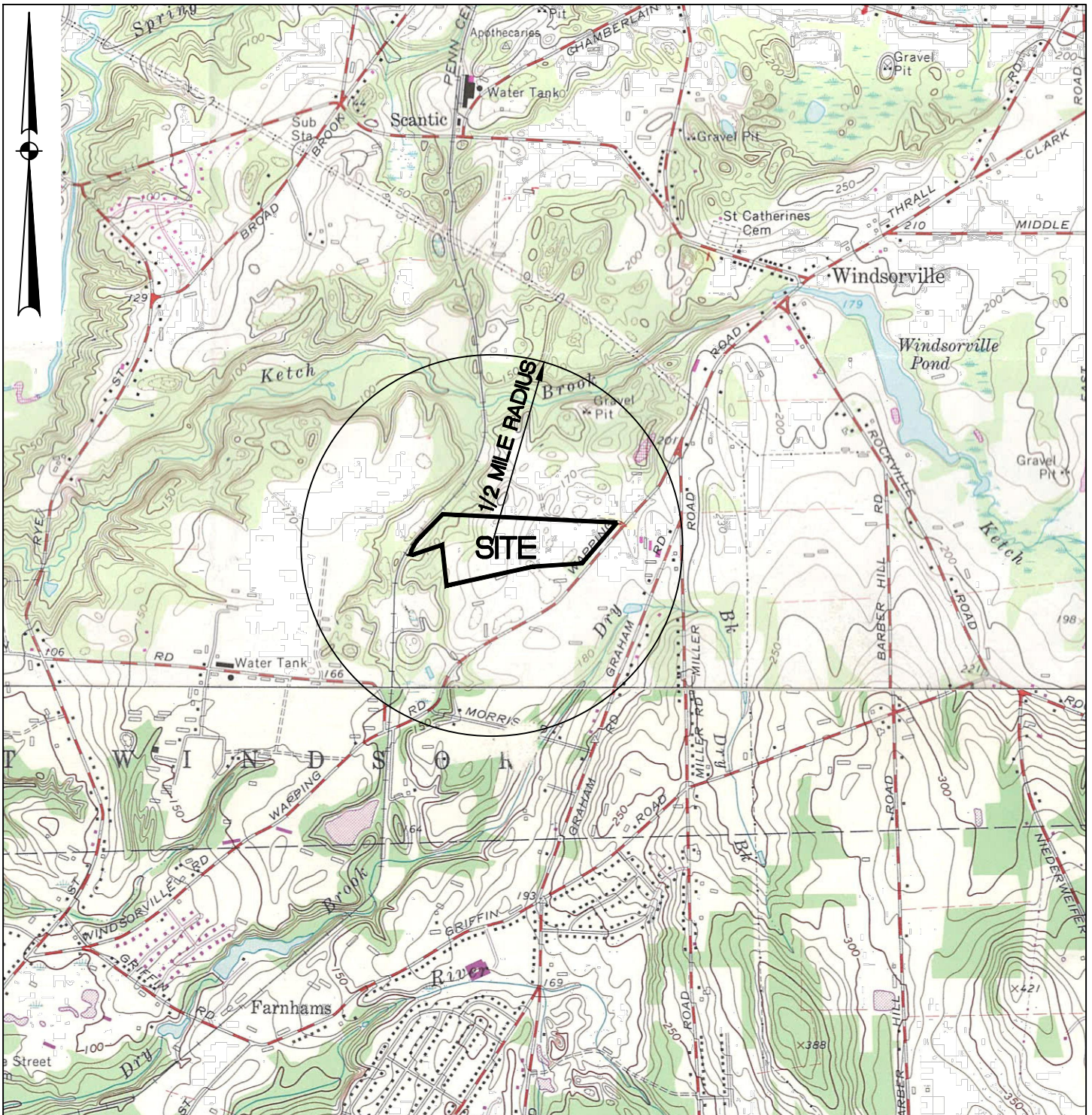
Accordingly, and for the reasons stated herein, because the proposed Project will meet state air and water quality standards and will not have a substantial adverse effect on the environment, Petitioner respectfully requests that the Council approve the location and construction of the proposed Project by declaratory ruling.

Respectfully submitted,  
LES Coma Berenices LLC



Lee D. Hoffman  
Pullman & Comley, LLC  
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Hartford, CT 06103  
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860-424-4370 (fax)  
[lhoffman@pullcom.com](mailto:lhoffman@pullcom.com)  
Its Attorneys





**VICINITY MAP**

**Norcap South  
Solar Field**

Wapping Road  
East Windsor, Connecticut

**SOURCE:**  
BROAD BROOK, CT USGS QUADRANGLE  
PHOTOREVISED 1972 & MANCHESTER, CT  
QUADRANGLE PHOTOREVISED 1968



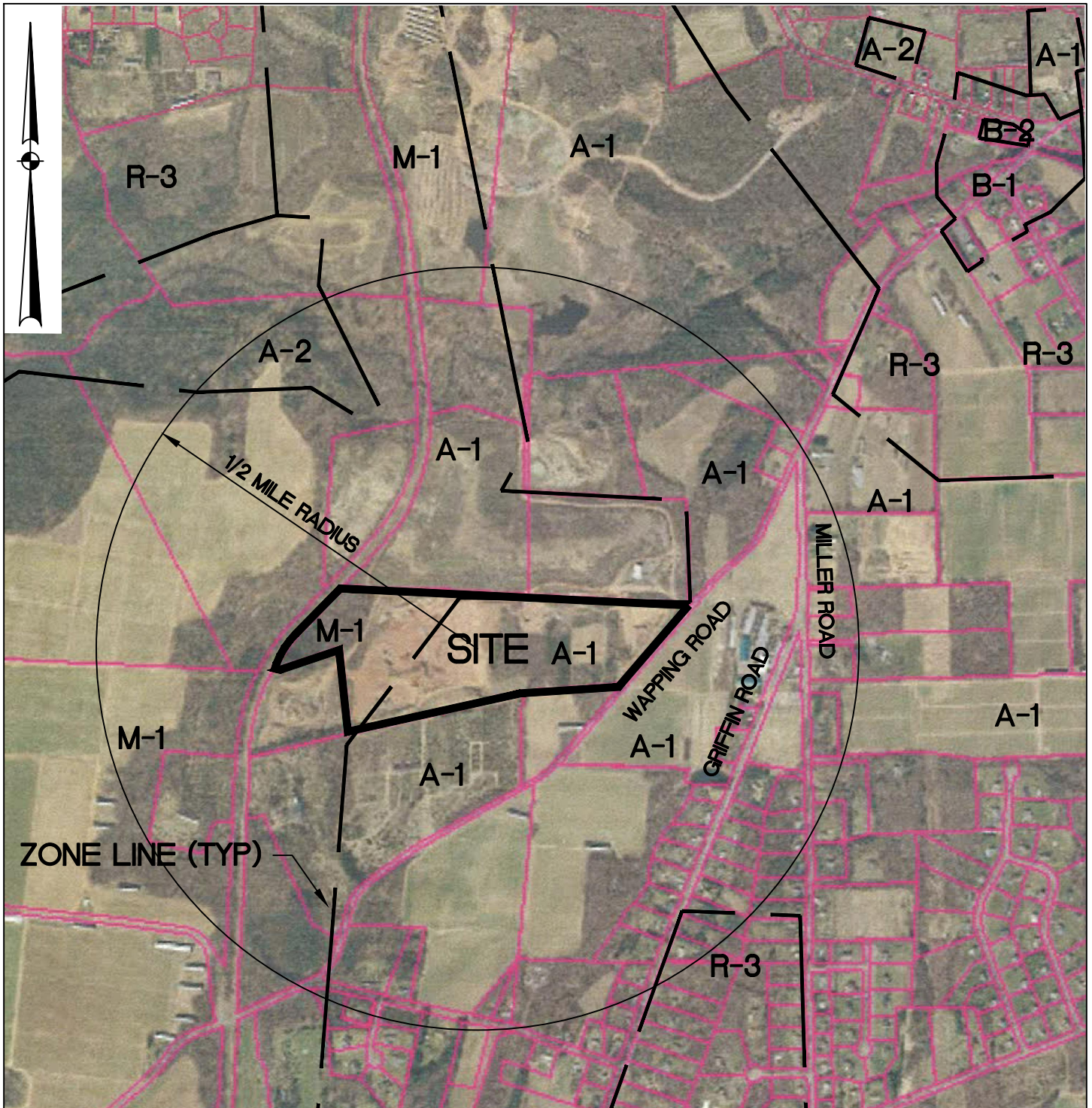
J.R. Russo & Associates, LLC  
1 Shoham Rd East Windsor, CT 06088 • CT 860.623.0569 • MA 413.785.1158  
www.jrusso.com • info@jrusso.com

**DATE**  
8-10-16

**SCALE**  
1"=2,000'

**JOB NUMBER**  
2016-037

**SHEET**  
EXHIBIT I



**ZONING LEGEND:**

- A-1 = AGRICULTURE/RESIDENTIAL 1 ZONE
- A-2 = AGRICULTURE/RESIDENTIAL 2 ZONE
- B-1 = BUSINESS 1 ZONE
- B-2 = BUSINESS 2 ZONE
- M-1 = MANUFACTURING 1 ZONE
- R-3 = SINGLE FAMILY RESIDENTIAL 3 ZONE

**SOURCE:**  
 EAST WINDSOR GIS W/2012 AERIAL  
 PHOTOGRAPH & ZONING BOUNDARY  
 OVERLAYS

**LAND USE MAP**

*Norcap South  
 Solar Field*

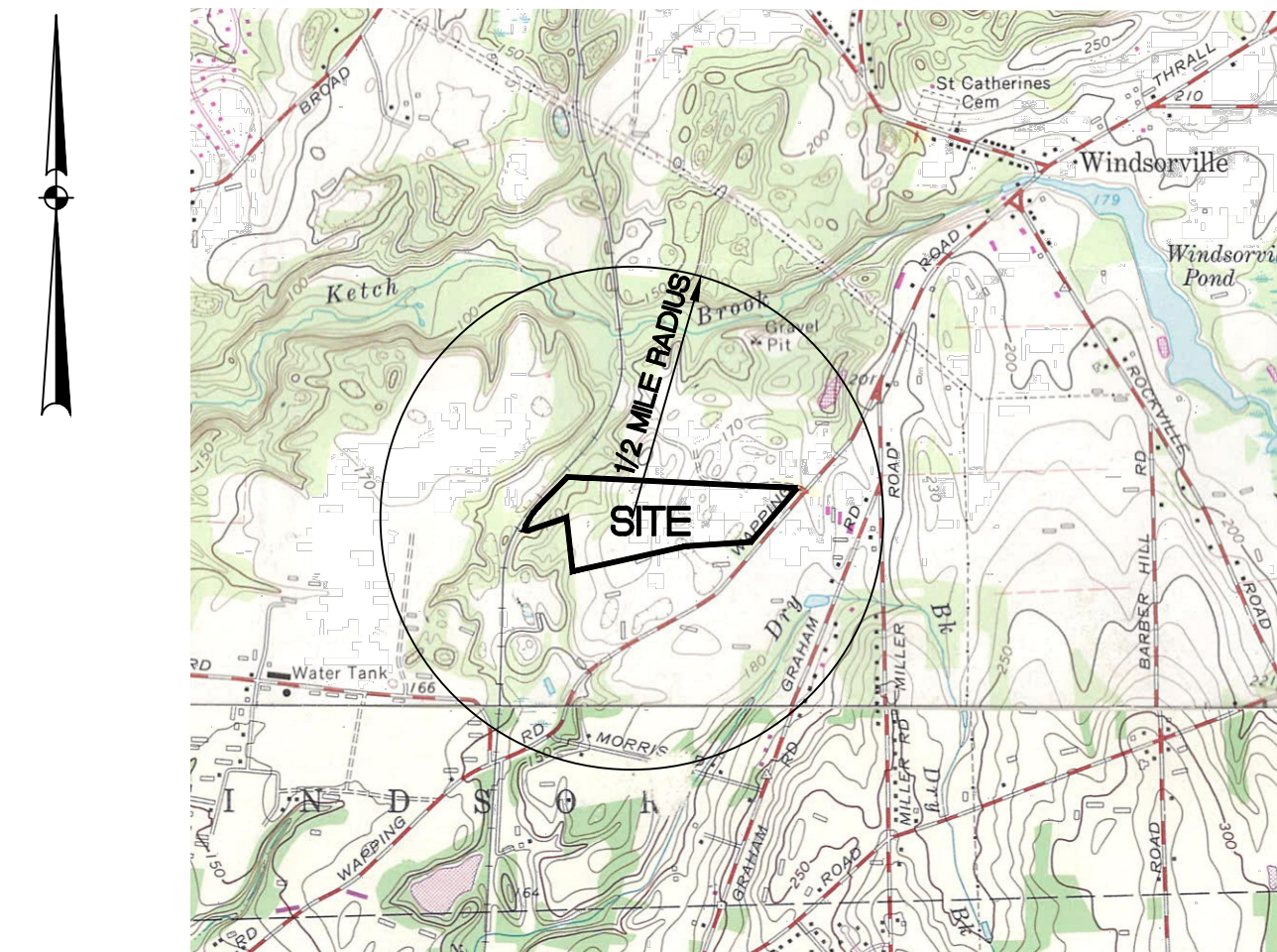
Wapping Road  
 East Windsor, Connecticut

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 1 Shoham Rd East Windsor, CT 06088 • CT 860.623.0569 • MA 413.785.1158  
 www.jrusso.com • info@jrusso.com

<b>DATE</b>	8-10-16
<b>SCALE</b>	1"=1,000'
<b>JOB NUMBER</b>	2016-037
<b>SHEET</b>	EXHIBIT II

# Norcap South Solar Array

Wapping Road  
East Windsor, Connecticut



**LOCATION MAP**  
1"=2000'



*Applicant*

*LSE Coma Berenices LLC*  
23 Salem Street  
Wakefield, MA 01880

*Owner*

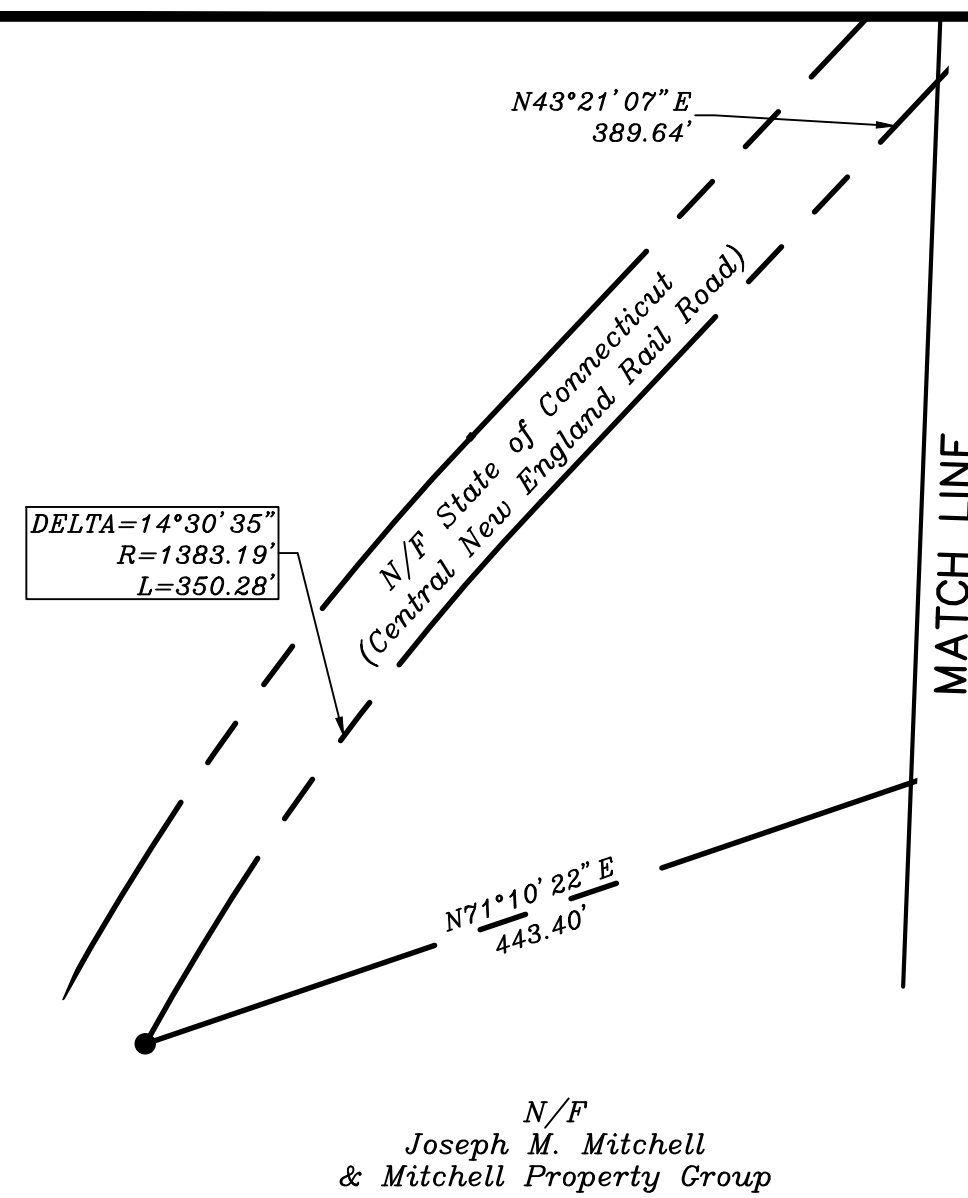
*Northern Capital Region Disposal Facility*  
321 Olcott Street  
Manchester, CT 06040

*Prepared By*



## DRAWING INDEX

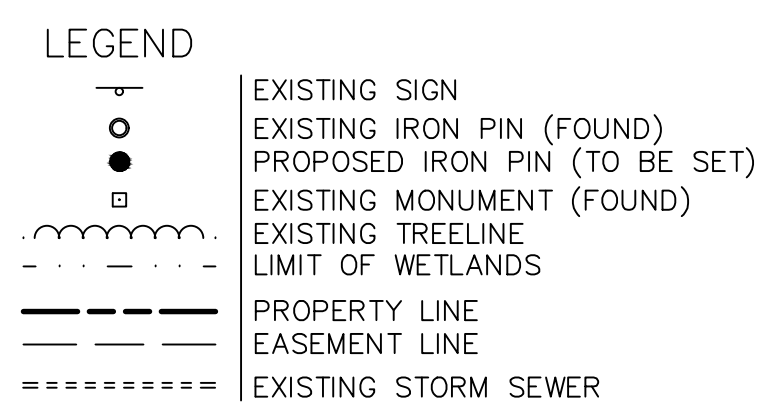
SHEET TITLE	SHEET NO.	LATEST REVISION
<b>CIVIL</b>		
COVER SHEET	1 of 5	12-05-16
LIMITED BOUNDARY SURVEY	2 of 5	12-05-16
OVERALL SITE PLAN	3 of 5	12-05-16
SITE PLAN (40 SCALE)	4 of 5	12-05-16
DETAILS	5 of 5	12-05-16



- Map References:**
- "Boundary Survey Prepared For Anna S. Maslak & Jean Martin East Windsor, Connecticut 7-28-88" by Gardner & Peterson"
  - "Map Prepared For Anne S. Maslak Division Of Land Wapping Road East Windsor CT 4-12-96 Rev. 11-10-96" By Anchor Engineering"
  - "ALTA/NSPS Land Title Survey, Norcap South Solar Array Prepared for Norcap South LLC Wapping Road East Windsor Connecticut, scale 1"=100', Dated May 25, 2016 prepared by J.R. Russo & Associates"

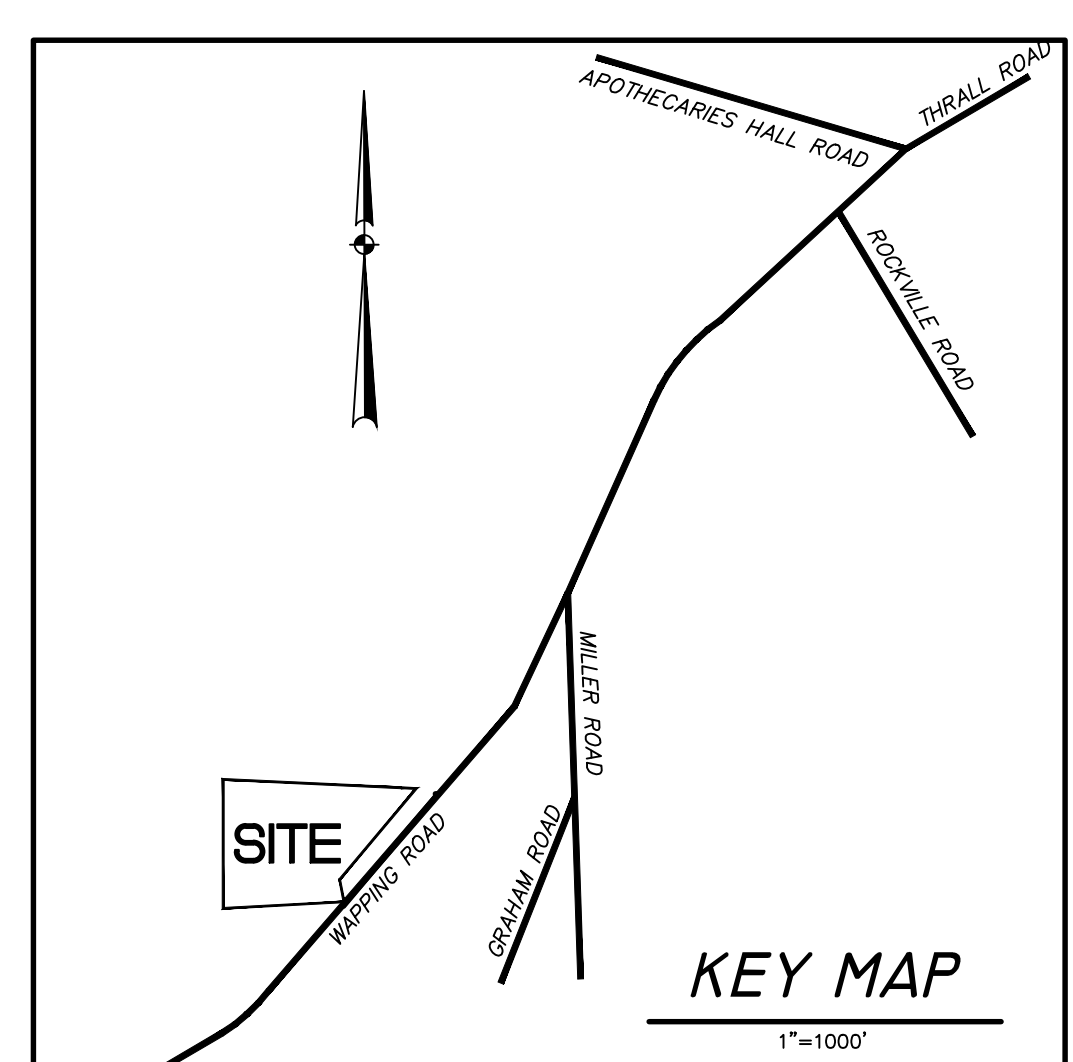
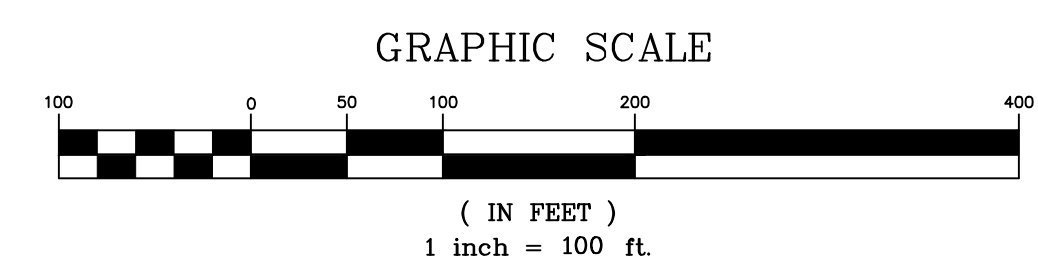
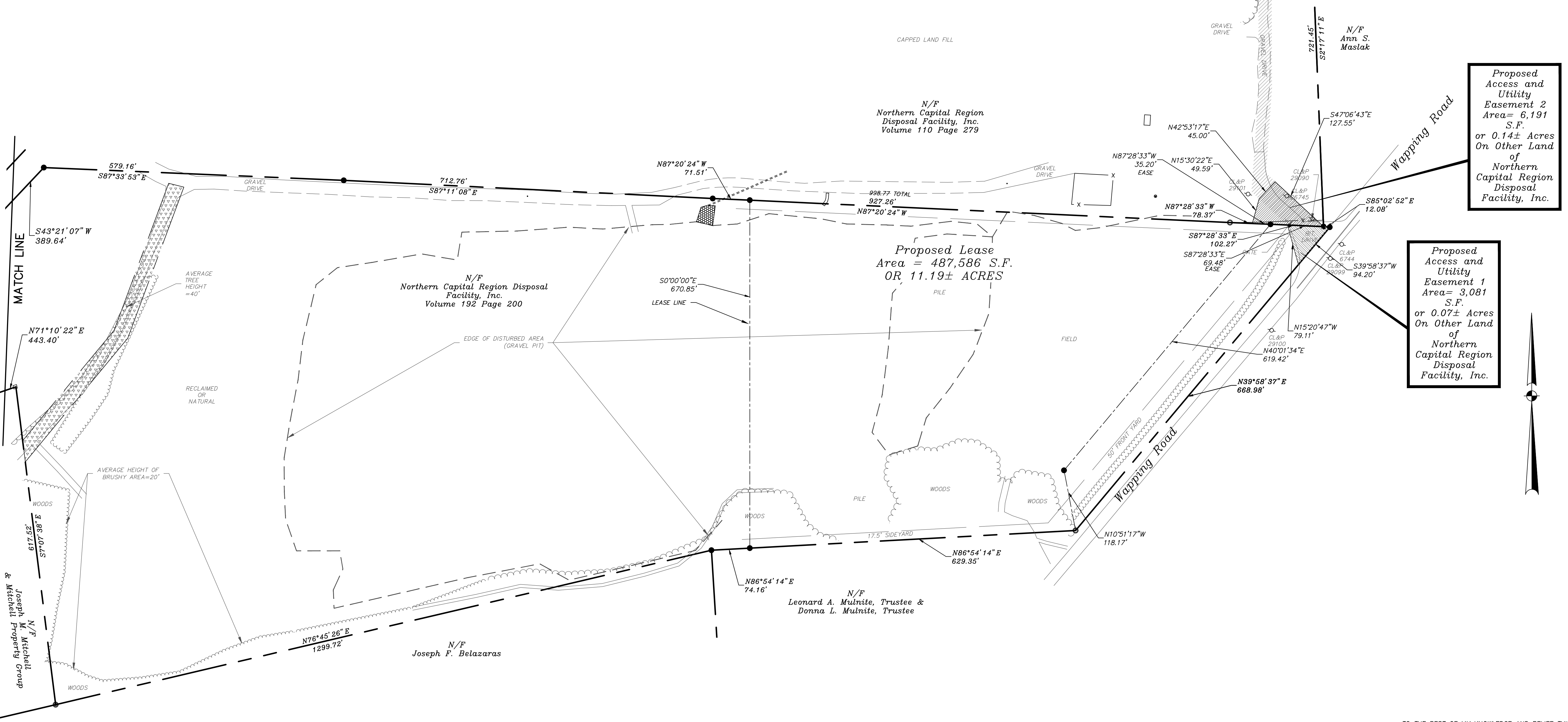
**Deed Reference:**  
Quit Claim Deed From Anne S. Maslak to Northern Capital Regional Disposal Facility, Inc. Volume 195 Page 616

- Notes:**
- Subject Parcel does not lie in Inland Wetlands as shown hereon;
  - Parcel does not lie in a Special Flood Hazard Zone per East Windsor G.I.S. and Flood Insurance Rate Map Hartford County Connecticut Community Panel 09003C0245P effective date September 26, 2008 as shown hereon;
  - Horizontal datum based on NAD 83 Elevations based on NGVD 88;
  - All underground utility locations on this plan are approximate and may not be complete. Anyone using this information without verifying the locations does so at their own risk. No construction will be done on this site prior to utility mark out. Call Before You Dig 1-800-922-4455'.



**DATA BLOCK**

ZONE:	A1
MIN. LOT AREA:	43,560 S.F.
MIN. FRONTAGE:	175'
FRONT YARD:	50'
SIDE YARD:	17.5'
REAR YARD:	30'
MAX. BLDG. HEIGHT:	30'

This survey and map has been prepared in accordance with Sections 20-300b-1 thru 20-300b-20 of the Regulations of Connecticut State Agencies - "Minimum Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. It is a Property Survey based on a Resurvey conforming to Horizontal Class A-2.

This document and copies thereof are valid only if they bear the live signature and embossed seal of the designated professional. Unauthorized alterations render any declaration hereon null and void.

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

**REVISIONS**

BY: RLS	CHK: JEU
---------	----------

**Norcap South Solar Array**  
Prepared For  
**LSE Coma Berenices LLC**  
Wapping Road  
East Windsor, Connecticut  
Map 041 Block 65 Lot 031 Zone: A-1

**BOUNDARY PLAN**

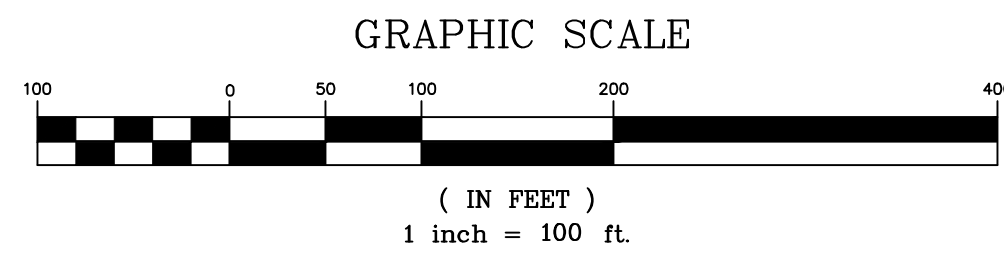
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SCALE	1"=100'
JOB NUMBER	2016-036
SHEET	2 of 5

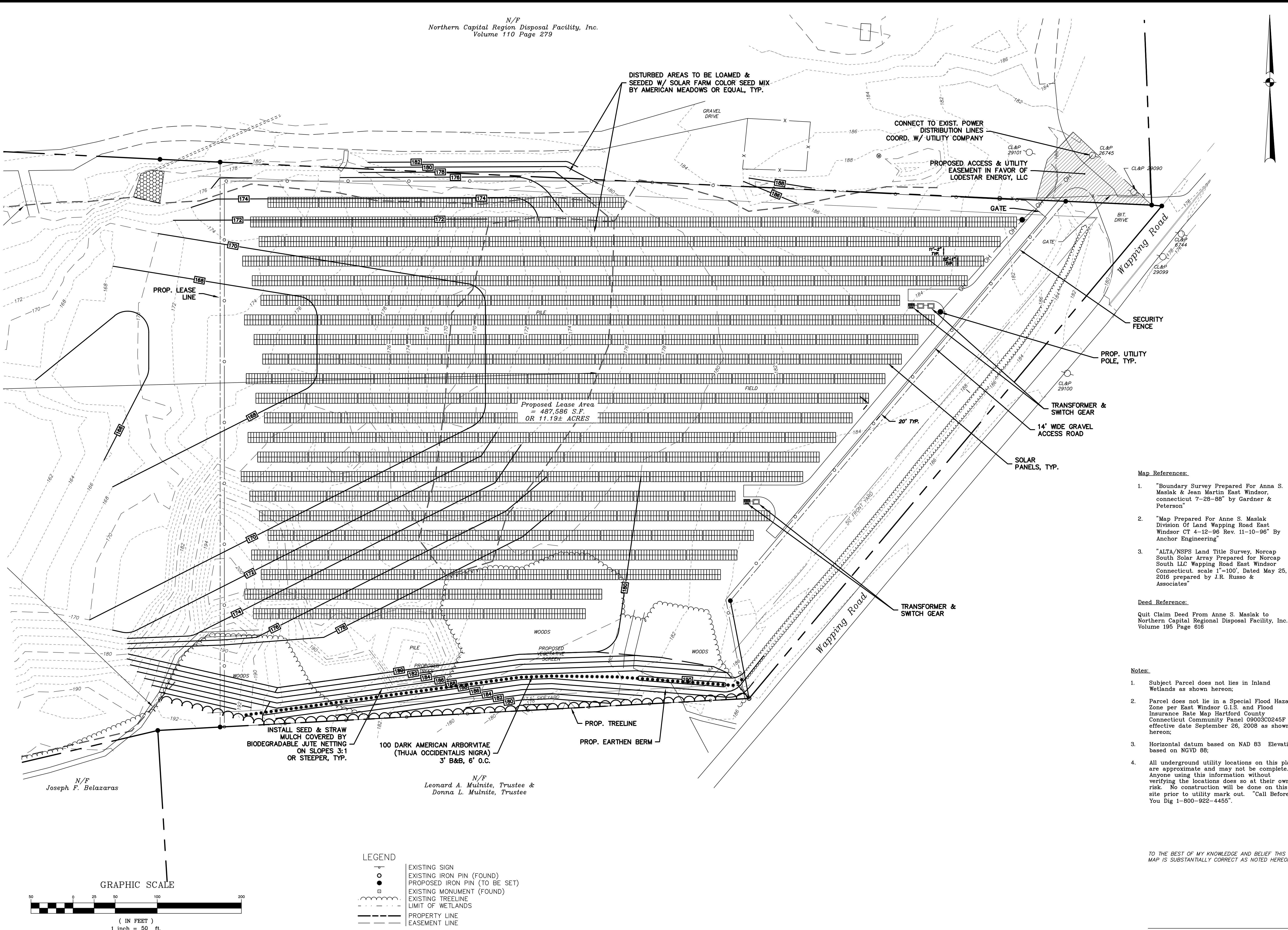


REVISIONS	
BY: RLS	CHK: JEU

**Norcap South Solar Array**  
Prepared For  
**LSE Coma Berenices LLC**  
Wapping Road  
East Windsor, Connecticut  
Map 041 Block 65 Lot 031 Zone: A-1

Overall Site Plan
DATE 12-05-16
SCALE 1"=100'
JOB NUMBER 2016-036
SHEET 3 of 5





DISTURBED AREAS TO BE LOAMED & SEEDED W/ SOLAR FARM COLOR SEED MIX BY AMERICAN MEADOWS OR EQUAL, TYP.

CONNECT TO EXIST. POWER DISTRIBUTION LINES COORD. W/ UTILITY COMPANY

PROPOSED ACCESS & UTILITY EASEMENT IN FAVOR OF LODESTAR ENERGY, LLC

PROP. LEASE LINE

Proposed Lease Area  
= 487,586 S.F.  
OR 11.19± ACRES

SECURITY FENCE

PROP. UTILITY POLE, TYP.

TRANSFORMER & SWITCH GEAR

14' WIDE GRAVEL ACCESS ROAD

SOLAR PANELS, TYP.

TRANSFORMER & SWITCH GEAR

INSTALL SEED & STRAW MULCH COVERED BY BIODEGRADABLE JUTE NETTING ON SLOPES 3:1 OR STEEPER, TYP.

100 DARK AMERICAN ARBORVITAE (THUJA OCCIDENTALIS NIGRA) 3' B&B, 6' O.C.

PROP. TREELINE

PROP. EARTHEN BERM

N/F Joseph F. Belazaras

N/F Leonard A. Mulnrite, Trustee & Donna L. Mulnrite, Trustee

Map References:

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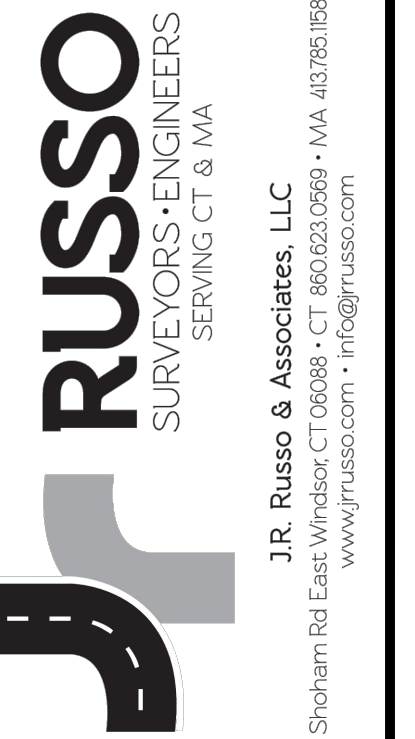
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TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



J.R. Russo & Associates, LLC  
SURVEYORS-ENGINEERS  
SERVING CT & MA  
1 Shoham Rd East Windsor, CT 06038 • CT 860.693.0569 • MA 413.785.1858  
www.jrusso.com • info@russo.com



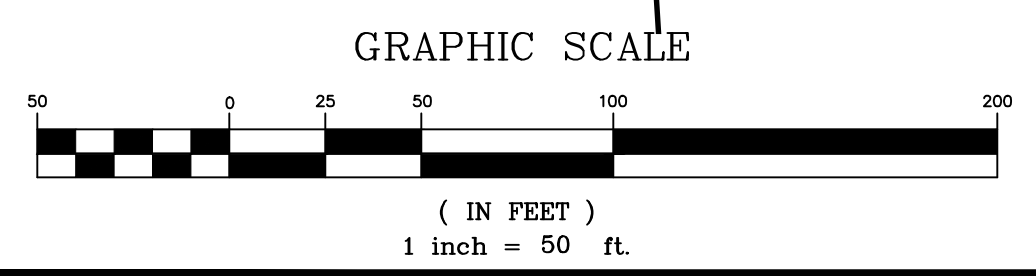
LODESTAR ENERGY

REVISIONS	
BY: LF/TAC	CHK: JEU

Norcap South Solar Array  
Prepared For  
LSE Coma Berenices LLC  
Wapping Road  
East Windsor, Connecticut  
Map 041 Block 65 Lot 031 Zone: A-1

Site Plan	
DATE	12-05-16
SCALE	1"=50'
JOB NUMBER	2016-036
SHEET	4 of 5

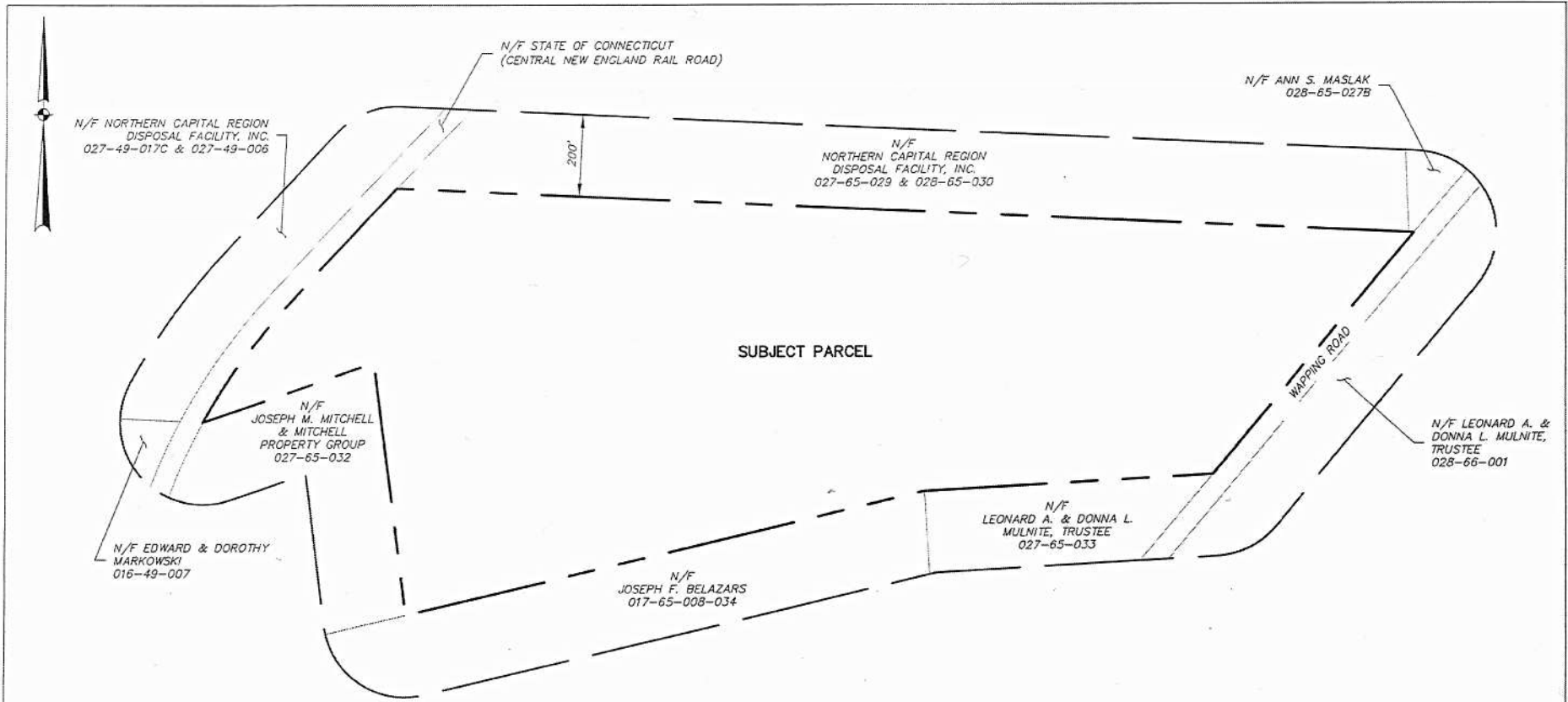
S:\Acad\2016 Civil\3D\2016-037-NORCAP NORTH -Lodestar\Russos Drawings\2016-037.dwg



LEGEND

- EXISTING SIGN
- EXISTING IRON PIN (FOUND)
- PROPOSED IRON PIN (TO BE SET)
- EXISTING MONUMENT (FOUND)
- EXISTING TREELINE
- - - LIMIT OF WETLANDS
- - - PROPERTY LINE
- - - EASEMENT LINE





**ABUTTERS MAP**

*Norcap South Solar Field*

Wapping Road  
East Windsor, Connecticut

**RUSSO**  
SURVEYORS-ENGINEERS  
SERVICES OF LLC

18 Russo & Associates, LLC  
1800 Main Street, Suite 200, East Windsor, CT 06027  
www.russosurveyors.com

DATE	3-3-17
SCALE	1"=250'
JOB NUMBER	2016-037
SHEET	EXHIBIT



**NORCAP NORTH & SOUTH**  
**WAPPING ROAD, EAST WINDSOR**

**CERTIFICATION OF SERVICE TO ABUTTING PROPERTY OWNERS**  
**CT SITING COUNCIL**

<b><u>ABUTTER NAME / ENTITY</u></b>	<b>PROPERTY ABUTTING</b>	<b>MAILED From P &amp; C Via Certified Mail</b>	<b>RETURN RECEIPT BACK [Green Card]</b>
Northern Capital Region Disposal 321 Olcott Street Manchester, CT 06040	North & South	<b>03/21/17</b>	
John F. and William Gilson 11 Glenwood Road West Hartford, CT 06107	North	<b>03/21/17</b>	
John EP Maslak 176 Windsorville Road Broad Brook, CT 06016	North & South	<b>03/21/17</b>	
Apothecaries Hall Enterprises, LLC 125 Edwin Street South Windsor, CT 06074	North	<b>03/21/17</b>	
Leonard A. Mulnite, Trustee 28 Miller Road Broad Brook, CT 06016	South	<b>03/21/17</b>	
Estate of Joseph F. Belazaras 155 Griffin Road South Windsor, CT 06074	South	<b>03/21/17</b>	
Edward and Dorothy Markowski 216 Babbs Road West Suffield, CT 06093	South	<b>03/21/17</b>	
Mitchell Property Group, LLC PO Box 651 South Windsor, CT 06074	South	<b>03/21/17</b>	

7016 1370 0000 4906 9177

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 Return Receipt (electronic) \$  
 Certified Mail Restricted Delivery \$  
 Adult Signature Required \$  
 Adult Signature Restricted Delivery \$

OLD STATE HOUSE  
STATION 06103  
MAR 21 2017  
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USPS

Postage  
\$

Total Postage and Fees  
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Sent To **Northern Capital Region Disposal**  
Street and Apt. No., or PO Box No. **321 Olcott Street**  
City, State, ZIP+4® **Manchester, CT 06040**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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OLD STATE HOUSE  
STATION 06103  
MAR 21 2017  
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USPS

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Street and Apt. No., or PO Box No. **11 Glenwood Road**  
City, State, ZIP+4® **West Hartford, CT 06107**

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OLD STATE HOUSE  
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Sent To **John EP Maslak**  
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City, State, ZIP+4® **Broad Brook, CT 06016**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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STATION 06103  
MAR 21 2017  
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USPS

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Sent To **Apothecaries Hall Enterprises, LLC**  
Street and Apt. No., or PO Box No. **125 Edwin Street**  
City, State, ZIP+4® **South Windsor, CT 06074**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$	

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**Total Postage and Fees**  
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Street and Apt. No., or PO Box No. **Leonard A. Mulnite, Trustee**  
**28 Miller Road**  
 City, State, ZIP+4® **Broad Brook, CT 06016**

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$	

Postage  
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**Total Postage and Fees**  
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Sent To  
Street and Apt. No., or PO Box No. **Estate of Joseph F. Belazaras**  
**155 Griffin Road**  
 City, State, ZIP+4® **South Windsor, CT 06074**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instruction

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<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	

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**Total Postage and Fees**  
\$

Sent To  
Street and Apt. No., or PO Box No. **Edward and Dorothy Markowski**  
**216 Babbs Road**  
 City, State, ZIP+4® **West Suffield, CT 06093**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	

Postage  
\$

**Total Postage and Fees**  
\$

Sent To  
Street and Apt. No., or PO Box No. **Mitchell Property Group, LLC**  
**P.O. Box 651**  
 City, State, ZIP+4® **South Windsor, CT 06074**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**PULLMAN  
& COMLEY** LLC  
ATTORNEYS

**Lee D. Hoffman**  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Northern Capital Region Disposal  
321 Olcott Street  
Manchester, CT 06040

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

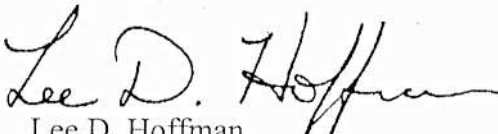
Dear Sir/Madam:

Pursuant to Section 16-50j-40(a) of the Connecticut Siting Council's (the "Council") regulations and Section 16-50l(b) of the General Statutes of Connecticut, we are notifying you that Lodestar Energy LLC, intends to file on or shortly after **March 24, 2017** a petition for declaratory ruling with the Council. This petition will request the Council's approval of the location and construction of an approximately two (2) megawatt solar photovoltaic ("PV") project (the "Project"), located at 84 Wapping Road in East Windsor, Connecticut.

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, please contact the undersigned or the Council.

Sincerely,



Lee D. Hoffman  
Attorney for Lodestar Energy LLC

ACTIVE/77284.1/KSHEATHELM/6466623v1

**PULLMAN  
& COMLEY** LLC  
ATTORNEYS

Lee D. Hoffman  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

John F. and William Gilson  
11 Glenwood Road  
West Hartford, CT 06107

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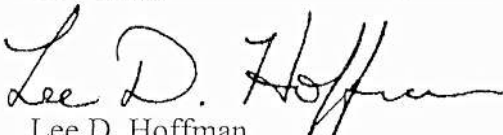
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Attorney for Lodestar Energy LLC

ACTIVE/77284.1/KSHEATHELM/6466623v1

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& COMLEY** LLC  
ATTORNEYS

**Lee D. Hoffman**  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

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176 Windsorville Road  
Broad Brook, CT 06016

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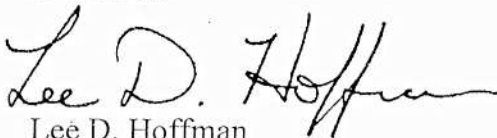
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Attorney for Lodestar Energy LLC

ACTIVE/77284.1/KSHEATHELM/6466623v1

**PULLMAN  
& COMLEY** LLC  
ATTORNEYS

**Lee D. Hoffman**  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Apothecaries Hall Enterprises, LLC  
125 Edwin Street  
South Windsor, CT 06074

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

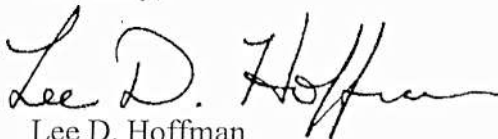
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Lee D. Hoffman  
Attorney for Lodestar Energy LLC

ACTIVE/77284.1/KSHEATHELM/6466623v1

**PULLMAN  
& COMLEY** LLC  
ATTORNEYS

Lee D. Hoffman  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

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Leonard A. Mulnite, Trustee  
28 Miller Road  
Broad Brook, CT 06016

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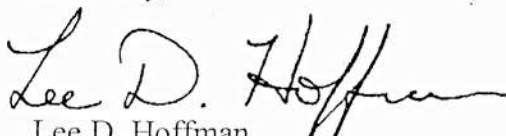
Dear Sir/Madam:

Pursuant to Section 16-50j-40(a) of the Connecticut Siting Council's (the "Council") regulations and Section 16-50l(b) of the General Statutes of Connecticut, we are notifying you that Lodestar Energy LLC, intends to file on or shortly after **March 24, 2017** a petition for declaratory ruling with the Council. This petition will request the Council's approval of the location and construction of an approximately two (2) megawatt solar photovoltaic ("PV") project (the "Project"), located at 84 Wapping Road in East Windsor, Connecticut.

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, please contact the undersigned or the Council.

Sincerely,



Lee D. Hoffman  
Attorney for Lodestar Energy LLC

ACTIVE/77284.1/KSHEATHELM/6466623v1



**PULLMAN  
& COMLEY** LLC  
ATTORNEYS

Lee D. Hoffman  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Estate of Joseph F. Belazaras  
155 Griffin Road  
South Windsor, CT 06074

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

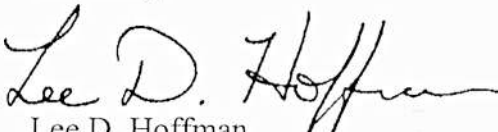
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Sincerely,



Lee D. Hoffman  
Attorney for Lodestar Energy LLC

ACTIVE/77284.1/KSHEATHELM/6466623v1



**PULLMAN  
& COMLEY** LLC  
ATTORNEYS

**Lee D. Hoffman**  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Edward and Dorothy Markowski  
216 Babbs Road  
West Suffield, CT 06093

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

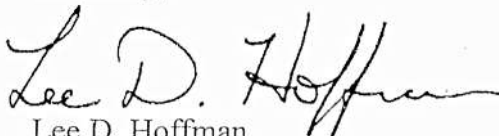
Dear Sir/Madam:

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Sincerely,



Lee D. Hoffman  
Attorney for Lodestar Energy LLC

ACTIVE/77284.1/KSHEATHELM/6466623v1

**PULLMAN  
& COMLEY** LLC  
ATTORNEYS

Lee D. Hoffman  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Mitchell Property Group, LLC  
P.O. Box 651  
South Windsor, CT 06074

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

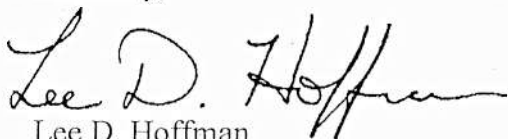
Dear Sir/Madam:

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

Sincerely,



Lee D. Hoffman  
Attorney for Lodestar Energy LLC

ACTIVE/77284.1/KSHEATHELM/6466623v1

**LODESTAR NORTH & SOUTH**  
**WAPPING ROAD, EAST WINDSOR**  
**CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES**  
**CT SITING COUNCIL**

<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED From P &amp; C via Certified Mail</b>	<b>RETURN RECEIPT BACK [Green Card]</b>
<b><u>EAST WINDSOR</u></b>		
East Windsor First Selectman Robert Maynard East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
East Windsor Town Clerk East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Laurie Whitten, Town Planner East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Joseph Ouellette, Chairman Planning and Zoning Commission East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Rand Stanley Building Inspector East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Leonard Norton Director of Public Works/Town Engineer/Tree Warden East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	

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Albert Grant Chairman Conservation Commission East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Alan Baker, Chairman Inland Wetlands Commission East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Eric Moffett (first named) Economic Development Commission East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
<b><u>STATE GOVERNMENT</u></b>		
Capitol Region Council of Governments 241 Main Street, Hartford, CT 06106-5310	<b>03/21/17</b>	
Office of the Attorney General State of Connecticut Attorney General George Jepsen 55 Elm Street Hartford, CT 06106	<b>03/21/17</b>	
Senator Richard Blumenthal 90 State House Square, 10 <sup>th</sup> Floor Hartford, CT 06103	<b>03/21/17</b>	
Senator Christopher Murphy One Constitution Plaza, 7th Fl. Hartford, CT 06103	<b>03/21/17</b>	
US Congressman John Larson 221 Main Street, 2nd Floor Hartford, CT 06106	<b>03/21/17</b>	

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<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED From P &amp; C via Certified Mail</b>	<b>RETURN RECEIPT BACK [Green Card]</b>
State Representative Christopher Davis Legislative Office Building Room 4200 300 Capitol Avenue Hartford, CT 06106	<b>03/21/17</b>	
State Senator Timothy Larson Legislative Office Building Room 3300 300 Capitol Avenue Hartford, CT 06106-159	<b>03/21/17</b>	
<b><u>STATE AGENCIES</u></b>		
State of Connecticut Department of Energy and Environmental Protection Robert Klee, Commissioner 79 Elm Street Hartford, CT 06106	<b>03/21/17</b>	
State of Connecticut Department of Public Health c/o Dr. Raul Pino, Commissioner 410 Capitol Avenue, PO Box 340308 Hartford, CT 06134	<b>03/21/17</b>	
State of Connecticut Council on Environmental Quality c/o Susan D. Merrow, Chair 79 Elm Street Hartford, CT 06106	<b>03/21/17</b>	
State of Connecticut Department of Agriculture c/o Steven K. Reviczky, Commissioner 165 Capitol Avenue Hartford, CT 06106	<b>03/21/17</b>	

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<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED From P &amp; C via Certified Mail</b>	<b>RETURN RECEIPT BACK [Green Card]</b>
State of Connecticut Public Utility Regulatory Authority c/o Arthur House, Chairman Ten Franklin Square New Britain, CT 06051	<b>03/21/17</b>	
State of Connecticut Office of Policy and Management Benjamin Barnes, Secretary Office of Policy and Management 450 Capitol Avenue Hartford, CT 06106	<b>03/21/17</b>	
State of Connecticut Department of Economic and Community Development Catherine Smith, DECD Commissioner 505 Hudson Street Hartford, CT 06106	<b>03/21/17</b>	
State of Connecticut Department of Transportation c/o James P. Redeker, Commissioner 2800 Berlin Turnpike Newington, CT 06111	<b>03/21/17</b>	
Connecticut Department of Emergency Services and Public Protection Dora B. Schriro, Commissioner 1111 Country Club Road Middletown, CT 06457	<b>03/21/17</b>	
State of Connecticut Department of Consumer Protection Jonathan A. Harris, Commissioner 165 Capitol Avenue Hartford, CT 06106	<b>03/21/17</b>	



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<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED From P &amp; C via Certified Mail</b>	<b>RETURN RECEIPT BACK [Green Card]</b>
Connecticut Department of Administrative Services Melody A. Currey, Commissioner 165 Capitol Avenue Hartford, CT 06106	<b>03/21/17</b>	
State of Connecticut Department of Labor Scott D. Jackson, Commissioner 200 Folly Brook Boulevard Wethersfield, CT 06109	<b>03/21/17</b>	

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**Robert Maynard**  
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**11 Rye Street**  
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Sent To **Laurie Whitten, Town Planner**  
**East Windsor Town Hall**  
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Sent To **Rand Stanley, Inspector**  
**East Windsor Town Hall**  
 Street and Apt. No., or PO Box No. **11 Rye Street**  
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Sent To **East Windsor Town Clerk**  
**East Windsor Town Hall**  
 Street and Apt. No., or PO Box No. **11 Rye Street**  
 City, State, ZIP+4® **Broad Brook, CT 06106-9553**

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Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

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Sent To **Joseph Ouellette, Chairman**  
**Planning and Zoning Commission**  
 Street and Apt. No., or PO Box No. **East Windsor Town Hall**  
**11 Rye Street**  
 City, State, ZIP+4® **Broad Brook, CT 06106-9553**

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Sent To **Leonard Norton, Director of Public**  
**Works/Town Engineer/Tree Warden**  
 Street and Apt. No., or PO Box No. **East Windsor Town Hall**  
**11 Rye Street**  
 City, State, ZIP+4® **Broad Brook, CT 06106-9553**

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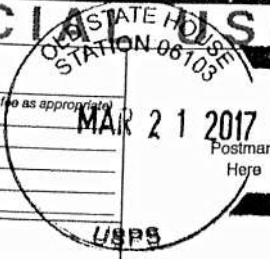
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Sent To **Albert Grant, Chairman**  
**Conservation Commission**  
 Street and Apt. No., or PO Box No. **East Windsor Town Hall**  
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**Broad Brook, CT 06106-9553**

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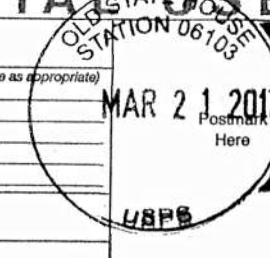
Certified Mail Restricted Delivery \$

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Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$



Sent To **Capital Region Counsel of**  
**Governments**  
 Street and Apt. No., or PO Box No. **241 Main Street,**  
 City, State, ZIP+4® **Hartford, CT 06108-5310**

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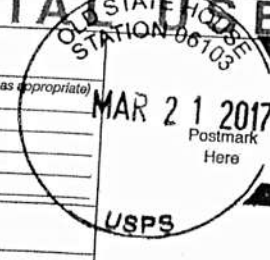
Certified Mail Restricted Delivery \$

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Sent To **Senator Richard Blumenthal**  
 Street and Apt. No., or PO Box No. **90 State House Square, 10<sup>th</sup> Floor**  
 City, State, ZIP+4® **Hartford, CT 06103**

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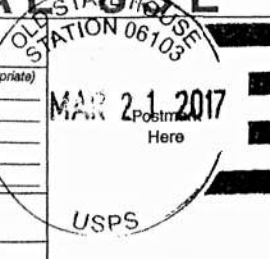
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Sent To **Eric Moffett (first named)**  
**Economic Develop. Commission**  
 Street and Apt. No., or PO Box No. **East Windsor Town Hall**  
 City, State, ZIP+4® **11 Rye Street**  
**Broad Brook, CT 06106-9553**

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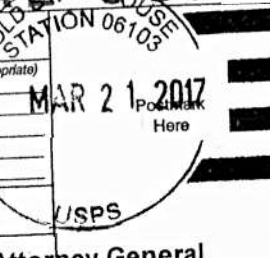
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Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$



Sent To **Office of Attorney General**  
**State of Connecticut**  
 Street and Apt. No., or PO Box No. **Attorney General George Japsen**  
 City, State, ZIP+4® **55 Elm Street**  
**Hartford, CT 06106**

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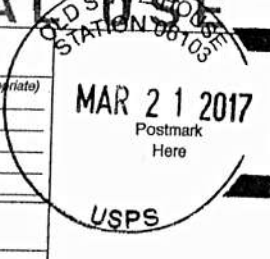
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Adult Signature Restricted Delivery \$

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Sent To **Senator Christopher Murphy**  
 Street and Apt. No., or PO Box No. **One Constitution Plaza, 7<sup>th</sup> Floor**  
 City, State, ZIP+4® **Hartford, CT 06103**

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Adult Signature Required \$

Adult Signature Restricted Delivery \$

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Sent To

Street and Apt. No., or PO Box No. **US Congressman John Larson**  
**221 Main Street, 2<sup>nd</sup> Floor**

City, State, ZIP+4® **Hartford, CT 06106**

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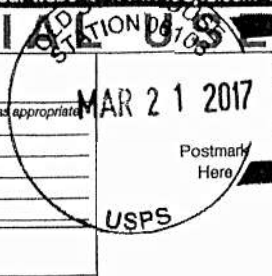
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Sent To **State Rep. Christopher Davis**

Street and Apt. No., or PO Box No. **Legislative Office Bldg., Room 4200**

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**Hartford, CT 06106**

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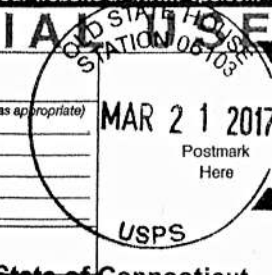
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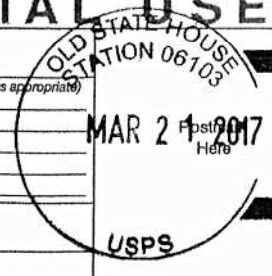
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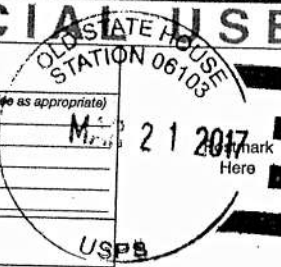
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**SAMPLE LETTER FOR FILING**

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90 State House Square  
Hartford, CT 06103-3702  
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f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

«Name and Address»

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT**


Dear «Name»:

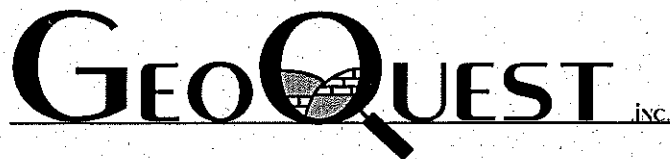
Pursuant to Section 16-50j-40(a) of the Connecticut Siting Council's (the "Council") regulations and Section 16-50i(b) of the General Statutes of Connecticut, we are notifying you that Lodestar Energy LLC, intends to file on or shortly after **March 24, 2017** a petition for declaratory ruling with the Council. This petition will request the Council's approval of the location and construction of an approximately two (2) megawatt solar photovoltaic ("PV") project (the "Project"), located at 84 Wapping Road in East Windsor, Connecticut.

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, please contact the undersigned or the Council.

Sincerely,

  
Lee D. Hoffman  
Attorney for Lodestar Energy LLC



**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
BLOCK 65, LOT 31, MAP 27  
EAST WINDSOR, CONNECTICUT**

---

**Prepared for:**

**NorCap South LLC  
c/o Conergy Projects  
1801 NE 123<sup>rd</sup> St., Suite 421  
North Miami, FL 33181**

**GeoQuest Project No. 2775**

**November 30, 2016**



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APPENDICES

Appendix A	Site Location Map/Site Layout Map
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Appendix F	Property Card
Appendix G	Aerial Photographs

## 1.0 SUMMARY

GeoQuest, Inc. (GeoQuest) has performed a Phase I Environmental Site Assessment (ESA) of an approximately 9.8 acre parcel of land identified in the East Windsor Assessor's files as Block 65, Lot 31 on Map 27. The current owner is listed as Northern Capital Region Disposal. This parcel of land shall be known in this report as the "site" or the "subject property". This ESA was performed in conformance with the scope and limitations of ASTM Practice E 1527-13 for Phase I ESAs.

The Site is a somewhat wedge shaped parcel of land that consists largely of open field with a few trees and a grass covered ridge separating the field from the gravel operation to the west. The site is located in a rural, largely agricultural area of East Windsor. It is bordered on the east by a thin stand of trees beyond which is Wapping Road. There are woods to the south. A dirt road runs along the northern edge of the site, providing access to the gravel operation to the west of the site. North of this road is a hill marking the remains of the NorCap landfill, now overgrown with trees.

Groundwater in the area of the Site has been classified by the Connecticut Department of Energy and Environmental Protection (CTDEEP) as "GB" which indicates that the water in this area is not suitable for use as a potable water supply without treatment.

GeoQuest reviewed the files of the East Windsor town offices regarding the Site. While there was considerable information regarding the landfill (which is not on the site), there was no information about the site itself.

A review of available state and federal environmental databases, obtained through Environmental Data Resources, Inc. (EDR), indicated that the site is not listed on any of the databases searched. In addition, there was no information found in the files of the Connecticut Department of Energy and Environmental Protection (CTDEEP) regarding the subject property.

Based on a review of documents and information collected during the Site walk-through and from the EDR database search there was no evidence that any listed activities (dry cleaning, furniture stripping, and auto body repair) identified in the Connecticut Property Transfer Act (Transfer Act) have occurred on-site. In addition, there is no evidence that any on-site activities have generated hazardous waste. Therefore, the Site would not be considered an "establishment" pursuant to the Transfer Act.

Based on the scope of services conducted and the information reviewed, GeoQuest did not identify any Recognized Environmental Conditions (RECs) on the subject property. Therefore, GeoQuest does not believe that any further assessment and/or remediation is warranted at this site at this time.

## 2.0 INTRODUCTION

GeoQuest, Inc. conducted a Phase I Environmental Site Assessment (ESA) of an approximately 9.8 acre parcel of land in East Windsor, Connecticut. The current owner of the site is listed as Northern Capital Region Disposal. For the purposes of this report this parcel shall be known as the “site” or the “subject property”.

### 2.1 Purpose

The purpose of this assessment was to collect information that could assist the Client in assessing the environmental condition of the property and in making decisions regarding the property. To achieve these ends GeoQuest attempted to identify recognized environmental conditions (RECs) and liability issues in connection with the property to the extent feasible pursuant to the processes prescribed in the American Society for Testing Materials (ASTM) E 1527-13 guidelines. The term “REC” as defined by ASTM is “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.” The term is not intended to include *de minimis* conditions that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

The Phase I ESA includes information gathered from Federal, State, and local agencies; personal interviews with people familiar with the Site; and a Site visit conducted by GeoQuest personnel. The report is intended to meet the requirements of ASTM E 1527-13.

### 2.2 Detailed Scope of Services

The Phase I ESA included, but was not limited to, the following:

- a walk-through inspection of the subject property and reconnaissance of the site area;
- review of documents available from the offices of the East Windsor Assessor and Building Departments;
- review of documents and files available from Federal, State, and local regulatory offices;
- interviews with people familiar with the Site, as available; and
- preparation of a report presenting our findings including a summary of conclusions and recommendations.

### 2.3 Significant Assumptions

The purpose of this Phase I ESA is to provide appropriate inquiry into the current and prior use of the Site consistent with good commercial and customary practice in an effort to minimize liability. GeoQuest assumes that the information provided by the Client, regulatory database provider, interviewees, and local and State government agencies is true and reliable.

## 2.4 Limitations and Exceptions

This report has been prepared for NorCap South, LLC and their counsel in accordance with the terms and conditions agreed upon<sup>1</sup>. Only the party for whom this report was originally prepared, and other specifically named parties, may make use of and rely upon the information in this report, in its entirety, in accordance with the ASTM's "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" ASTM Designation E 1527-00 dated May 10, 2000, ASTM's "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" ASTM Designation E 1527-05 dated November 1, 2005, the Code of Federal Regulations (CFR) 40CFR Part 312 "Standards and Practices for All Appropriate Inquiries: Final Rule" dated November 1, 2005, and/or "Standards and Practices for All Appropriate Inquiries E 1527-13. After 180 days and prior to using the information contained herein, the report should be updated in accordance with ASTM Standards and Federal regulations.

GeoQuest does not assume responsibility for the discovery and elimination of environmental problems which could result in regulatory actions or for hazards which could cause accidents, injuries or damage. Compliance with submitted recommendations, suggestions, remedial actions or any proposed scope of services in no way assures elimination of hazards, environmental impairment or fulfillment of the owner's or potential purchaser's obligations as may be required by any local, state or federal laws or modifications or changes thereto. In addition, GeoQuest, does not provide any guarantees, certifications, or warranties (express or implied) that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and all applicable laws, codes, regulations, or standards. In many cases local, state or federal regulations and/or statutes require the prompt reporting to "appropriate" authorities should a "release" occur or be identified. It is the responsibility of the current owner or operator to notify authorities of any conditions which exist which are in violation of current laws or codes.

The findings and conclusions contained in this report are based solely on professional interpretation of observations of conditions as they presently exist and on information obtained while conducting the scope-of-services detailed in this report. If the recommendations or findings within this report are not implemented or acted upon within a reasonable period of time, there can be no assurances that intervening factors will not arise which will effect the conclusions contained herein. In addition, data available from further inspections, assessments, subsurface explorations, sampling and testing of the subject property may modify or indicate the need to modify the conclusions and recommendations of this report. Should additional information or observations collected at a later date indicate the presence of an environmental situation not addressed in this report, GeoQuest will determine the need to modify the conclusions and recommendations contained in this report, if contacted by the client. GeoQuest assumes no responsibility for damages (consequential or otherwise) arising from information or situations that are identified, but not brought to its attention immediately.

---

<sup>1</sup> The terms and conditions were attached to the original proposal. If for any reason these terms and conditions are not accepted, this report should be returned immediately to the sender.

## **2.5 Special Terms and Conditions**

The scope of work for this Phase I ESA did not include an assessment of the presence or potential presence of asbestos containing material, lead based paint, radon, microbial material, radionuclides, or assessment of non-chemical potential hazards such as damage from earthquakes or floods.

## **2.6 User Reliance**

This report is prepared for the exclusive use of NorCap South, LLC and its counsel. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from GeoQuest. GeoQuest is not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

### **3.0 Site DESCRIPTION**

#### **3.1 Location and Legal Description**

The subject property consists of an approximately 9.8 acre parcel of land identified in the East Windsor Assessor's files as Block 65, Lot 31 on map 27. (It should be noted that as there were no markers delineating the site boundaries, this report is based on GeoQuest's estimate as to where the boundary lines were.) A Site Location Map can be found in Appendix A.

#### **3.2 Site and Vicinity General Characteristics**

The site is a roughly wedge shaped parcel of land bounded on the east by Wapping Road, by some woods on the south, by a dirt access road on the north, and by a sand and gravel operation on the west. The majority of the site consists of an open grassy field.

#### **3.3 Current Use of the Property**

The land currently is vacant but appears to have been mowed to keep it open for agricultural use.

#### **3.4 Descriptions of Structures, Roads, and Other Improvements on the Site**

This section provides details of the site improvements. A Site Layout Map can be found in Appendix A.

##### **3.4.1 General Description of Structures**

There are no structures on the site.

##### **3.4.2 Roads**

The only road is an access road which runs from Wapping Road along the northern edge of the field. There are currently no roads on the site itself.

##### **3.4.3 Potable Water Supply**

Currently there are no utilities on-site. There are no public water supply wells within 1.0 mile of the subject property.

##### **3.4.4 Sewage Disposal System**

There are no utilities on the site, including sewer.

#### **3.5 Current Uses of Adjoining Properties**

The site is bordered on the south by woods. To the east is a row of small trees screening



Wapping Road beyond. To the north is a dirt access road and a large garage building used by the machinery involved in the sand and gravel operation west of the site. Beyond this is a tree covered hill, the remains of the former NorCap landfill which was closed and capped circa 2006 and is now overgrown.

## **4.0 Site RECONNAISSANCE**

### **4.1 Methodology and Limiting Conditions**

On October 26, 2016 GeoQuest personnel conducted a walk-through of the subject property to determine the presence or absence of recognized environmental conditions which could have the potential to impact the site. The weather was clear and in the 50°s. GeoQuest revisited the site on November 29, 2016; the weather then was rainy and in the 50s.

Information about the site was provided by Mr. Adam Beal of Lodestar Energy. No one accompanied GeoQuest during the walk-through. Photographs of the site can be found in Appendix B.

### **4.2 General Site Setting**

#### **4.2.1 Current Use(s) of the Property**

The land currently is a vacant agricultural field.

#### **4.2.2 Past Use(s) of the Property**

Based on the aerial photographs the site appears to have been agricultural in nature with wooded borders since approximately the 1930s.

#### **4.2.3 Current Uses of Adjoining Properties**

See Section 3.5

#### **4.2.4 Past Uses of Adjoining Properties**

Based on the aerial photographs adjoining properties were, and are, either wooded or open agricultural fields.

#### **4.2.5 Current or Past Uses in the Surrounding Area**

Based on the aerial photographs the surrounding area remains largely wooded or agricultural with some scattered residences.

#### **4.2.6 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions**

Based on geological maps of Connecticut, bedrock at the site consists of Portland Arkose, a reddish brown arkosic sandstone. According to the CTDEEP Map of Surficial Materials (1992) soils in the area are reported to largely be made up of sand overlying gravel where sand and gravel tend to be less than 20 feet thick. The topography of the site is quite flat, except near the gravel quarry. It appears, therefore, that overall

groundwater flow direction would be to the north northwest toward Ketch Brook located north of the site.

### **4.3 Exterior Observations**

The site is relatively flat and largely grass covered. A dirt road runs along the northern edge of the site, giving access to the sand and gravel quarrying operation west of the site. This road leaves Wapping Road near the northeast corner of the site, forking shortly with one branch leading across the north edge of the site, another to the garages, and a third to lot 27A. There is a thin line of small trees along the eastern edge of the site, screening the site from Wapping Road.

There is some woods bordering the southern edge of the site. The apparent western edge of the site is marked by a ridge of dirt partially covered with tall grasses. The land on the eastern side of this ridge is sandy and flat, while the land on the western side of the ridge appears to be part of the sand and gravel operation with piles of dirt, gravel, etc.

There were no indications of any hazardous materials anywhere on the site. (It should be noted that as there were no markers delineating the site boundaries, this report is based on GeoQuest's estimate as to where the boundary lines were.)

Observations regarding the following items were made during GeoQuest's site walk-through in accordance with the ASTM standard.

#### **4.3.1 Hazardous Substances and Petroleum Products in Connection with Identified Uses**

No hazardous substances or petroleum products were identified on the site.

#### **4.3.2 Storage Tanks**

There were no indications of underground storage tanks (eg. vent and fill pipes) evident on the site.

#### **4.3.3 Odors**

GeoQuest did not note any noxious odors during the walk-through of the site.

#### **4.3.4 Pools of Liquid**

There were no pools of liquid observed on the site except for pools of rainwater in November.

#### **4.3.5 Drums**

There were no drums observed on the site.

**4.3.6 Hazardous Substance and Petroleum Products Containers (Not Necessarily in Connection with Identified Uses)**

There were no hazardous substance or petroleum containers observed on the site.

**4.3.7 Unidentified Substance Containers**

There were no unidentified substance containers noted on-site.

**4.3.8 Polychlorinated Biphenyls (PCBs)**

GeoQuest did not observe electrical equipment or hydraulic equipment on the property that would be expected to contain fluids with polychlorinated biphenyls (PCBs).

**4.3.9 Pits, Ponds, or Lagoons**

There were no pits, ponds or lagoons noted on site.

**4.3.10 Stained Soil or Pavement**

There were no indications of stained soil on-site.

**4.3.11 Stressed Vegetation**

No stressed vegetation was noted on the site.

**4.3.12 Solid Waste**

There was no solid waste noted on-site.

**4.3.13 Wastewater**

There were no stormwater or waste water discharges noted on the site during the walk-through.

**4.3.14 Wells**

There were no indications of any wells on site; there are no public water supply wells within one mile of the site.

**4.3.15 Septic Systems**

Currently there are no utilities serving the site.

## **5.0 USER-PROVIDED INFORMATION**

GeoQuest provided a "User Questionnaire" to the client. The answers as provided by the client are noted below. A copy of the completed questionnaire can be found in Appendix C.

### **5.1 Environmental Liens or Activity and Use Limitations**

The Client is unaware of any environmental liens against the property or of any land use limitations or restrictions in place at the site.

### **5.2 Specialized Knowledge**

The client indicates that he has no specialized knowledge relating to the property.

### **5.3 Commonly Known or Reasonably Ascertainable Information**

The Client is aware only that there is a gravel operation near the site.

### **5.4 Knowledge of Litigation or Administrative Proceedings**

The client has no information to indicate that there are any pending administrative proceedings relevant to hazardous substances on the property.

### **5.5 Are there any obvious indicators that point to the presence or likely presence of contamination at the property?**

The client is unaware of any obvious indicators pointing to the presence or likely presence of contamination at the property.

### **5.6 Valuation Reduction for Environmental Issues**

The client believes that they are paying the fair market lease rate for the land.

## **6.0 RECORDS REVIEW**

### **6.1 Previous Environmental Reports**

GeoQuest was not provided with any prior environmental reports.

### **6.2 Standard Environmental Record Sources**

GeoQuest requested a search of available environmental records by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut, which maps and lists properties in Federal and State environmental databases with existing conditions or status that may have the potential to affect the subject property. This search met the specific requirements of the ASTM Standard Practice for Environmental Assessments, E 1527-13, including those associated with government databases, search distances, and data currency. A copy of the EDR report can be found in Appendix D.

The site is not listed on any of the databases searched.

#### **6.2.1 Federal Environmental Record Sources**

In accordance with ASTM E 1527-13 guidelines Federal databases were searched for any sites on or within a one mile radius of the subject property. There is only one site listed in the EDR databases: NORCAP (the former landfill) is listed on the Leachate and Wastewater database (inactive). As this is an inactive site which was closed circa 2006, it is not expected to impact the subject property.

#### **6.2.2 State Environmental Record Sources**

ASTM E 1527-13 requires a review of available State databases. There were no sites listed on these databases within one mile of the subject property.

### **6.3 Additional Environmental Record Sources**

The files of the Connecticut Department of Energy and Environmental Protection (CTDEEP) were checked for any information regarding the subject property or abutting properties including leaking underground storage tanks, oil or chemical spills, and manifests.

There were no named files for the subject property at the CTDEEP and the site does not appear on the UST/LUST, Spills, or Manifest databases. There were numerous files for the NORCAP landfill just to the north of the site; however, it is beyond the scope of this report to review these files as they do not directly pertain to the site. In addition, the landfill has been closed since roughly 2006. A summary page of the closure report for the landfill was reviewed which gives a rough time line of the closure activities between circa 1998 and 2005. A copy of this timeline is included in Appendix E.

## **6.4 Municipal File Information**

### **6.4.1 Town Assessor's Office**

GeoQuest reviewed the files of the East Windsor Assessor's office for the subject property. The property card for the site identifies it as Block 65, Lot 31 on Map 27. The parcel is listed as being 41.92 acres; however, the map of the "proposed lease area" indicates the size of the site to be approximately 9.8 acres. The current owner of the site is listed as Northern Capital Region Disposal. A copy of this card can be found in Appendix F.

### **6.4.2 Planning and Zoning Department**

GeoQuest reviewed records maintained by the East Windsor Planning & Zoning Department. There was no environmental information pertaining to the site in these files.

## **6.5 Physical Setting Source(s)**

### **6.5.1 Regional Physiographic Conditions**

According to the EDR report the site is located at 184 feet above mean sea level in the central lowlands section of the New England Physiographic Province.

### **6.5.2 Soil Conditions**

According to the CTDEEP Map of Surficial Materials (1992) soils in the area are reported to largely be made up of sand overlying gravel where sand and gravel tend to be less than 20 feet thick.

### **6.5.3 Geologic Conditions**

According to the Bedrock Geological Map of Connecticut (1985), bedrock at the site consists of Portland Arkose, a reddish brown arkosic sandstone.

### **6.5.4 Surface Water and Groundwater Characteristics**

While there is no detailed information on the hydrogeology of this area, it is assumed that the primary subsurface aquifer would be in the unconsolidated sediments overlying the bedrock. The movement and direction of groundwater flow is influenced by many factors, including the aquifer's hydraulic characteristics, surface and bedrock topography, the presence of surface water bodies, building foundations and the influence of pumping wells. Based on the overall topography of the site and the proximity of Ketch Brook (to the north) overall groundwater flow is assumed to be flowing to the north northwest.

Based on the Water Quality Classification Map for the Connecticut River and South Central Coastal Basin (1993) the CTDEEP has classified groundwater in the site area as "GB". A GB classification indicates that the water in this area is not suitable for use as a potable water supply without treatment.

## 6.6 Historical Use Information on the Property

### 6.6.1 Land Title Records

Based on the property record card available at the East Windsor Assessor's office the current owner of the site is Northern Capital Region Disposal.

### 6.6.2 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps (Sanborns) were requested from Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut. There were no Sanborn Maps for the site area.

### 6.6.3 Aerial Photographs

Aerial photographs for the site and surrounding area were requested from EDR. Aerial photographs for the years 1934, 1941, 1951, 1957, 1963, 1968, 1970, 1977, 1986, 1990, 1995, 2005, 2006, 2008, 2010, and 2012 were available and reviewed for this assessment to determine the presence of prior building structures, if any, and other land use features on-site. It should be noted that due to the variation in scale in the pictures some features may not appear in all of the photos. In addition, some portions of the photos are too dark to determine details. Copies of these photographs can be found in Appendix G.

1934-1963 The site and site area appear largely agricultural with some wooded areas.

1968-1995 Beginning circa 1968 the land to the north of the site appears to be undergoing clearing and/or excavation. By 1986 the area of the landfill is more clearly delineated. The site area remains open field.

2005 By 2005 the landfill (to the north of the subject property) appears to have been capped and is growing over. At this time the subject property continues to be open field; however, there are rows of trees to the west of the site.

2006 - 2012 The former landfill is increasingly covered with vegetation. Land to the west of the site shows more trees through 2008. However, by 2010 land further west of the site is being excavated, and by 2012 the sand and gravel operation has occupied much of the area west of the site. It also appears that the site itself may be being excavated, although it is difficult to tell whether it is being excavated or cleared for agriculture.



## **7.0 INTERVIEWS**

### **7.1 Interviews with Owner/Site Contacts**

GeoQuest spoke with Ms Laurie Whitten, Director of Planning & Development for the town of East Windsor. She offered some background information on the landfill (to the north of the subject property) and provided some maps which helped to pinpoint the general location of the subject property.

## **8.0 APPLICABILITY OF THE CONNECTICUT PROPERTY TRANSFER ACT**

Based on a review of documents and information collected during the site walk-through and on file at the CTDEEP there was no evidence that the subject property is an "establishment" pursuant to the Connecticut Property Transfer Act (Transfer Act).

An "establishment", as defined in Connecticut General Statutes Section 22a-134, is "any real property at which or any business operation from which: (A) 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 (kg) of hazardous waste in any one month (mo.); (B) hazardous waste generated at a different location was recycled, reclaimed, reused, stored, handled, treated, transported, or disposed of; (C) the process of dry cleaning was conducted on or after May 1, 1967; (D) furniture stripping was conducted on or after May 1, 1967; or (E) a vehicle body repair facility was located on or after May 1, 1967".

There is no indication that the site has generated, stored, treated, or disposed of hazardous waste. In addition there is no indication that any listed activities (dry cleaning, furniture stripping, and auto body repair) identified in the Connecticut Property Transfer Act have occurred on-site. Therefore, this site would not be considered an "establishment" pursuant to the Transfer Act. However, this should be confirmed with counsel prior to any transfer of the property.

## **9.0 ADDITIONAL SERVICES**

No additional services were performed for this site assessment.

## **10.0 FINDINGS**

### **10.1 Recognized Environmental Conditions (RECs) and/or Areas of Concern (AOCs)**

There were no RECs identified at the subject property.

### **10.2 De Minimis Conditions**

No de minimis conditions were identified.

## **11.0 OPINION**

This section includes the environmental professional's opinion(s) of the impact on the property of conditions identified in the findings section of the report. Based on the information reviewed and observations made during the site walk-through, GeoQuest found no evidence of any recognized environmental conditions at the site. While the former landfill abuts the site to the north, it has been closed for at least ten years and there are no indications that it is impacting the subject property. In addition, it is GeoQuest's understanding that there will not be residences on the site or facilities requiring the use of groundwater,

## **12.0 CONCLUSIONS**

GeoQuest, Inc. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the site identified in the files of the East Windsor assessor as Block 65, Lot 31 on Map 27. Any exceptions to, or deletions from, this practice are described in Section 13.0 of this report. This assessment has revealed no evidence of any recognized environmental conditions in connection with the site. Therefore, GeoQuest believes that no further investigation of the site is warranted.

## **13.0 DEVIATION/DATA GAPS**

The fact that the final boundaries of the Site were not delineated is considered a data gap; however, based on GeoQuest's walk-through there are no indications of any environmental issues on the adjoining edges of the site (which might impact the site). Therefore, GeoQuest believes that this data gap is not significant.

## 14.0 REFERENCES

The information contained in this report was collected during the walk-through of the property and from review and/or inspection of the following documents and files:

Interviews                    Ms Laurie Whitten, Director of Planning & Development for East Windsor  
East Windsor                Assessor's Office  
                                  Building Department  
                                  Fire Marshal's Office

United States Geological Survey Topographic Map, Broad Brook Quadrangle (7.5 minute series), 1997

Connecticut Department of Environmental Protection, Bureau of Waste Management Records

Connecticut Department of Environmental Protection, Bureau of Water Management Records

Connecticut Department of Environmental Protection, Water Compliance Unit, Adopted Water Quality Classifications for the Connecticut River and South Central Coastal Basins, 2001.

Bedrock Geological Map of Connecticut, Connecticut Geological and Natural History Survey, 1985

Surficial Materials Map of Connecticut, United States Geological Survey, 1992

## 15.0 STATEMENT OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 C.F.R. 312. I have the specific qualifications based on education, training, and experience to assess as property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. part 312.



---

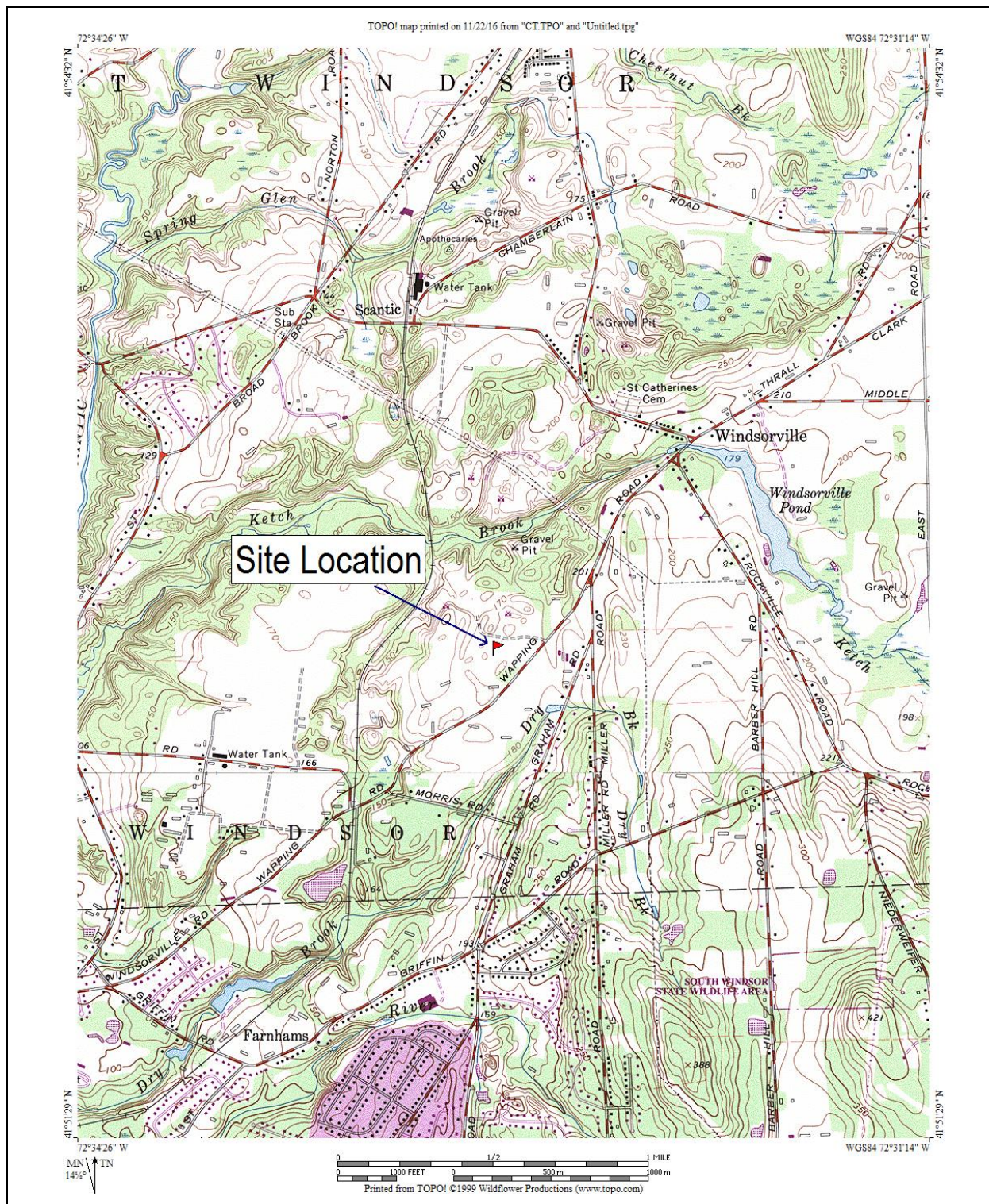
**Marc I. Casslar**  
**President**

## APPENDICES

APPENDIX A

SITE LOCATION MAP/SITE LAYOUT MAP

# SITE LOCATION MAP



Source: U.S. Geological Survey, 7.5 Minute Quadrangle, Scale 1:24000



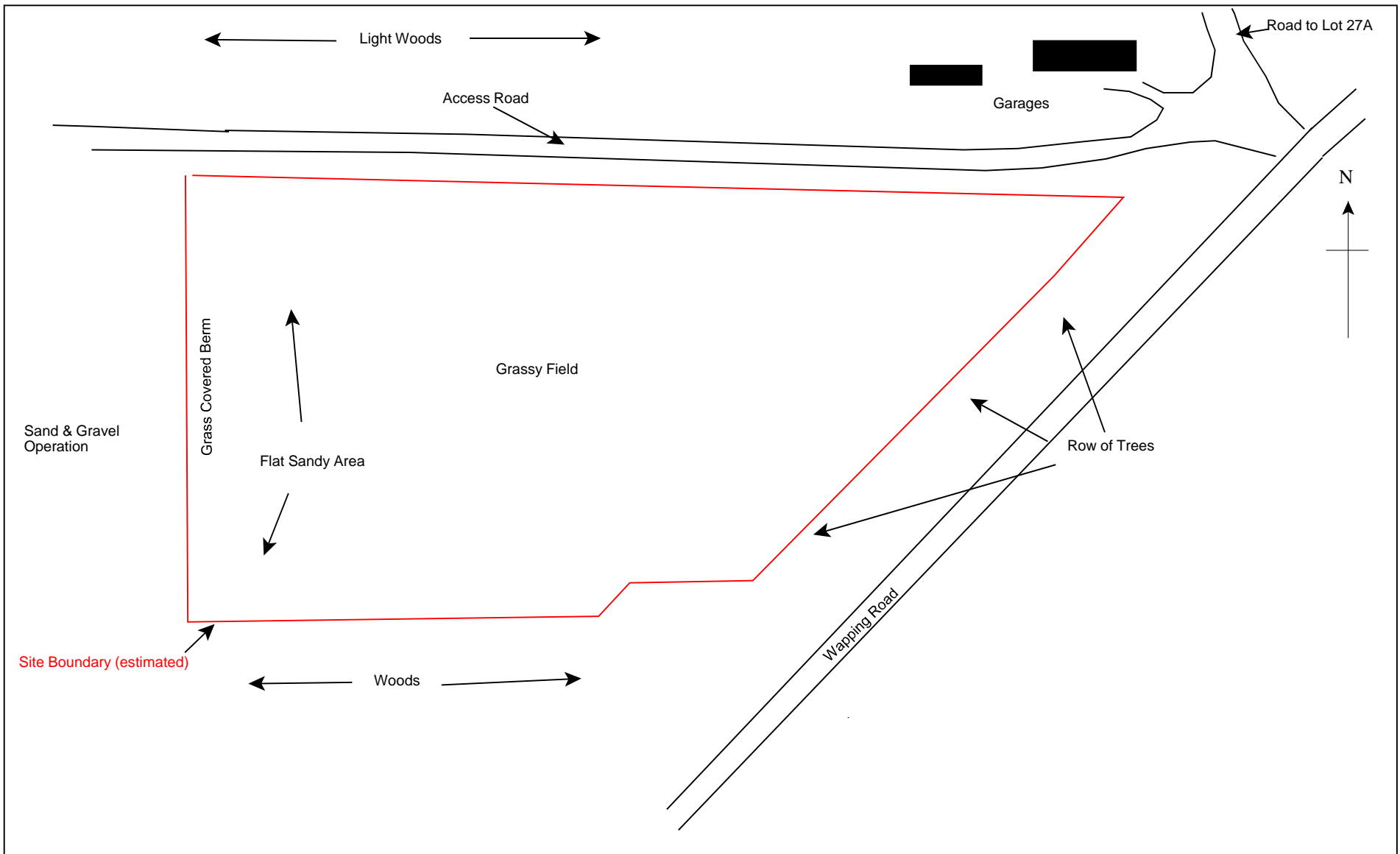
P.O. Box 85  
 Bloomfield, CT  
 Tel: (860) 243-1757  
 Fax: (860) 243-9414

SITE LOCATION  
 Block 65, Lot 31, Map 41  
 East Windsor, Connecticut

PROJECT NUMBER

2775

# SITE LAYOUT MAP



P.O. Box 85  
 Bloomfield, CT  
 Tel: (860) 243-1757  
 Fax: (860) 243-9414

SITE LOCATION  
 Map 27, Bl 65, Lot 31  
 East Windsor, CT

DATE  
 Nov. 2016

PROJECT NUMBER  
 2775



APPENDIX B

SITE PHOTOGRAPHS

# NorCap South, East Windsor



Eastern Side of Site (View East)



North Western Edge of Site (View Northwest)



Western Edge of Site



View Southeast Across the Site



Eastern Edge of Site



Western Edge of Site (View East)

APPENDIX C  
USER QUESTIONNAIRE

ASTM 1527-13 Phase I Environmental Site Assessment  
User Provided Information Questionnaire

The ASTM standard for Phase I ESAs requires that the user (usually the client) be responsible for certain information that is included in the Phase I report. The following questions are being provided to you as the "user". You may or may not know specifics about what is being asked.

Name: Adam Beal, VP Development

Organization: Lodestar Energy

Subject Site (& Address): NorCap South Solar Facility  
84 Wapping Road, East Windsor, CT

Name(s) & Address(es) of party(ies) for whom report is being prepared:

NorCap South LLC, c/o Conergy Projects  
1801 NE 123<sup>rd</sup> St., Suite 421, North Miami, FL 33181

Reason why Phase I is required: Financing / Permitting

Signed: Adam M. Beal

Date: 11.21.16

Please provide the following information, if available:

- Any prior environmental site assessment reports,
- Environmental audit reports,
- Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits),
- Registrations for underground and above-ground storage tanks,
- Material safety data sheets,
- Community right-to-know plan,
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.,
- Reports regarding hydrogeologic conditions on the property or surrounding area,

- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property,
- Hazardous waste generator notices or reports.
- Geotechnical studies,
- Risk assessments,
- Recorded Activity Use Limitations

2. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

No.

3. Are you aware of any activity or land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

No.

4. Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No. Tenant only.

5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

a) Do you know the past uses of the property? If so, what are they?

Gravel operation.

b) Do you know of specific chemicals that are present or once were present at the property?

No.

- c) Do you know of spills or other chemical releases that have taken place at the property?

No.

- d) Do you know of any environmental cleanups that have taken place at the property?

No.

7. Do you know of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?

No.

8. Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

No.

9. Do you believe that the value of the Site that was or is being paid for this property reasonably reflects the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Yes - fair market lease rate.

APPENDIX D

EDR REPORT

**Wapping Road**

Wapping Road

Broad Brook, CT 06016

Inquiry Number: 4734249.2s

September 22, 2016

**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)



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***Thank you for your business.***  
 Please contact EDR at 1-800-352-0050  
 with any questions or comments.

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## 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

WAPPING ROAD  
BROAD BROOK, CT 06016

#### COORDINATES

Latitude (North): 41.8807560 - 41° 52' 50.72"  
Longitude (West): 72.5476150 - 72° 32' 51.41"  
Universal Transverse Mercator: Zone 18  
UTM X (Meters): 703491.9  
UTM Y (Meters): 4639231.5  
Elevation: 184 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5644932 BROAD BROOK, CT  
Version Date: 2012  
  
South Map: 5644954 MANCHESTER, CT  
Version Date: 2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140717  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
WAPPING ROAD  
BROAD BROOK, CT 06016

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">1</a>	NORCAP	WAPPING ROAD	LWDS	Higher	1 ft.

# 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  
SEMS..... Superfund Enterprise Management System

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
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

## EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

SHWS..... Inventory of Hazardous Disposal Sites

SDADB..... Site Discovery and Assessment Database

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... List of Landfills/Transfer Stations

### ***State and tribal leaking storage tank lists***

LUST..... Leaking Underground Storage Tank List

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing

UST..... Underground Storage Tank Data

AST..... Marine Terminals and Tank Information

INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

ENG CONTROLS..... Engineering Controls Listing

AUL..... ELUR Sites

### ***State and tribal voluntary cleanup sites***

VCP..... Voluntary Remediation Sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

BROWNFIELDS..... Brownfields Inventory

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

SWRCY..... Recycling Facilities

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register

## EXECUTIVE SUMMARY

CDL..... Clandestine Drug Lab Listing  
US CDL..... National Clandestine Laboratory Register

### **Local Land Records**

CT PROPERTY..... Property Transfer Filings  
LIENS..... Environmental Liens Listing  
LIENS 2..... CERCLA Lien Information

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
SPILLS..... Oil & Chemical Spill Database  
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  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program 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  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
FINDS..... Facility Index System/Facility Registry System  
UXO..... Unexploded Ordnance Sites  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
AIRS..... Permitted Air Sources Listing  
CPCS..... Contaminated or Potentially Contaminated Sites  
DRYCLEANERS..... Drycleaner Facilities

## EXECUTIVE SUMMARY

ENF.....	Enforcement Case Listing
Financial Assurance.....	Financial Assurance Information Listing
LEAD.....	Lead Inspection Database
MANIFEST.....	Hazardous Waste Manifest Data
NPDES.....	Wastewater Permit Listing
SEH.....	List of Significant Environmental Hazards Report to DEEP
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
ECHO.....	Enforcement & Compliance History Information

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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.

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Other Ascertainable Records***

LWDS: 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.

A review of the LWDS list, as provided by EDR, and dated 07/17/2009 has revealed that there is 1 LWDS site within approximately 0.25 miles of the target property.

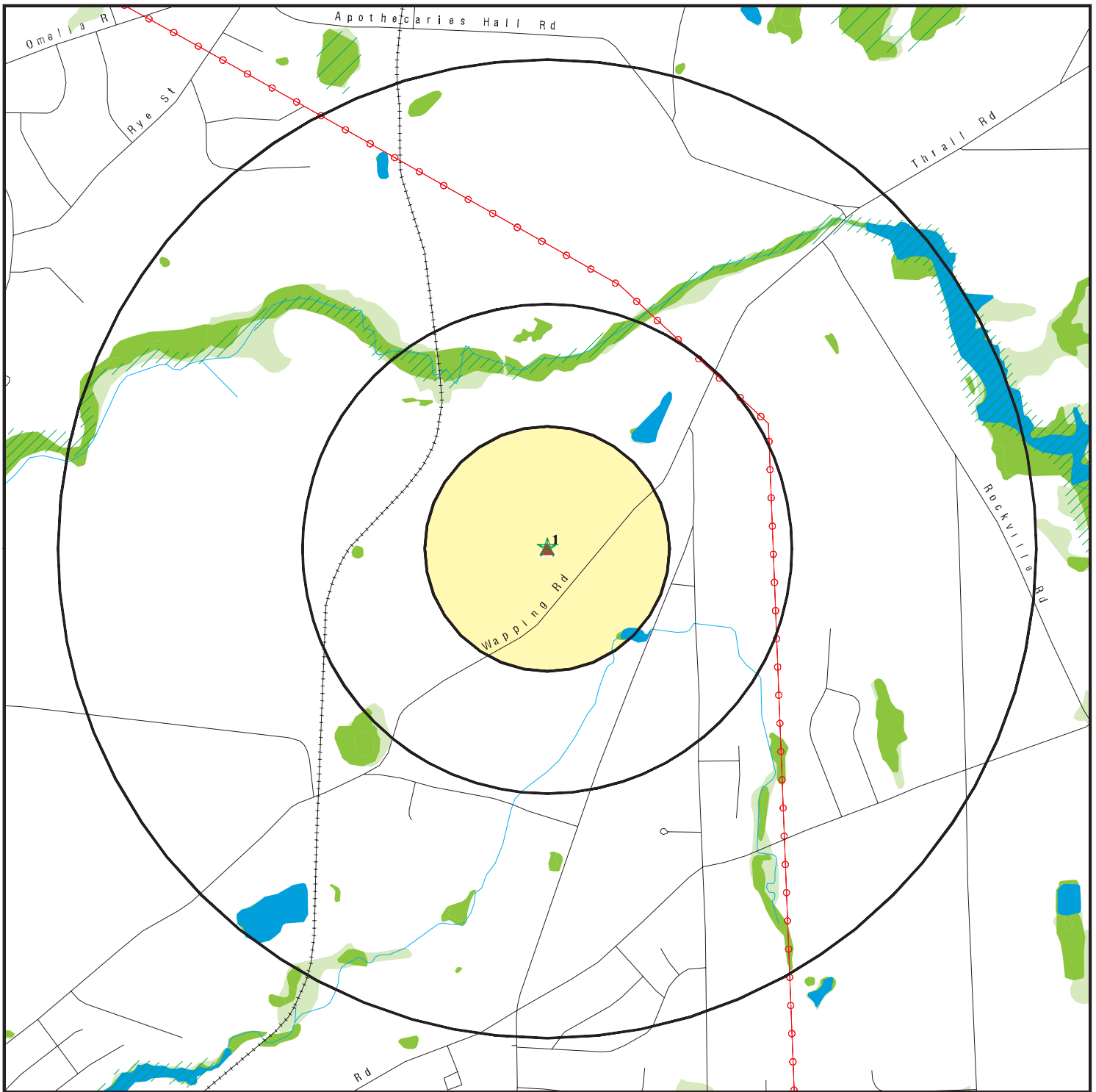
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NORCAP Leachate and Wastewater Number: 4200014	WAPPING ROAD	0 - 1/8 (0.000 mi.)	1	8

## EXECUTIVE SUMMARY

There were no unmapped sites in this report.



# OVERVIEW MAP - 4734249.2S



- ★ 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

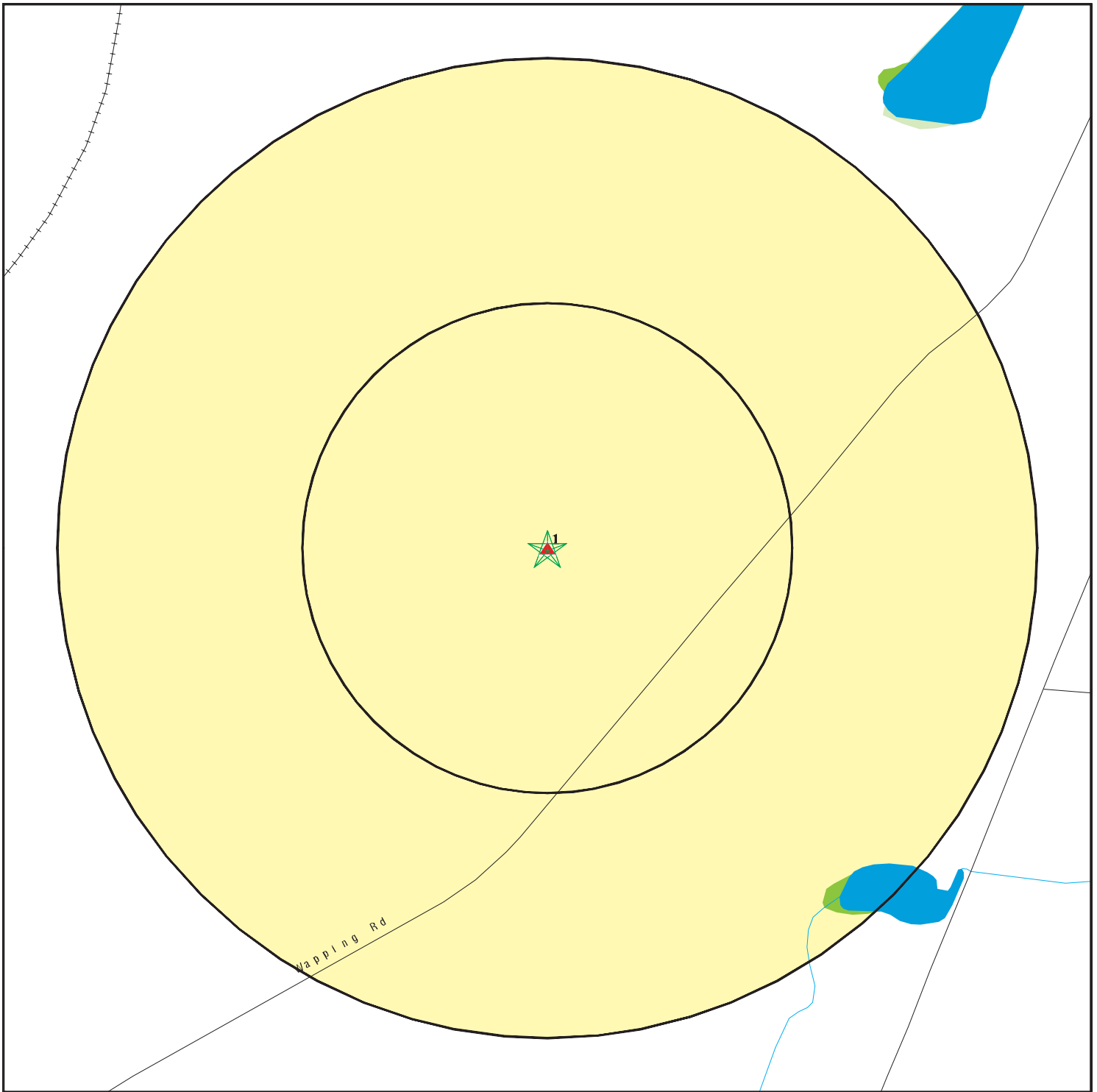
- Indian Reservations BIA
  - Power transmission lines
  - 100-year flood zone
  - 500-year flood zone
  - National Wetland Inventory
  - State Wetlands
- 0 1/4 1/2 1 Miles

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: Wapping Road  
 ADDRESS: Wapping Road  
 Broad Brook CT 06016  
 LAT/LONG: 41.880756 / 72.547615

CLIENT: GeoQuest, Inc.  
 CONTACT: Beth  
 INQUIRY #: 4734249.2s  
 DATE: September 22, 2016 4:44 pm

# DETAIL MAP - 4734249.2S



- ★ 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

- 0 1/16 1/8 1/4 Miles
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- 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: Wapping Road  
 ADDRESS: Wapping Road  
 Broad Brook CT 06016  
 LAT/LONG: 41.880756 / 72.547615

CLIENT: GeoQuest, Inc.  
 CONTACT: Beth  
 INQUIRY #: 4734249.2s  
 DATE: September 22, 2016 4:46 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
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<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>								
SHWS	1.000		0	0	0	0	NR	0
SDADB	0.500		0	0	0	NR	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		0	0	0	NR	NR	0
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
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b><i>State and tribal institutional control / engineering control registries</i></b>								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
<b><i>State and tribal voluntary cleanup sites</i></b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b><i>State and tribal Brownfields sites</i></b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
CT PROPERTY	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b><i>Other Ascertainable Records</i></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
FUSRAP	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
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
CPCS	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
LWDS	0.250		1	0	NR	NR	NR	1
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
SEH	0.500		0	0	0	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

RGA HWS	TP		NR	NR	NR	NR	NR	0
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## 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>
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	1	0	0	0	0	1

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

1

**NORCAP  
 WAPPING ROAD  
 EAST WINDSOR, CT**

**LWDS S109937142  
 N/A**

< 1/8  
 1 ft.

LWDS:

**Relative:  
 Higher**

Leachate and Wastewater Number:	4200014
Status of the Discharge Activity:	Inactive
Leachate and Waste Flow:	Ground
Alias:	Botticello
Alias2:	Northern Capital Region Disposal Facility

**Actual:  
 184 ft.**

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					



# 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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	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: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 07/06/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

### SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site list***

### SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016	Source: EPA
Date Data Arrived at EDR: 06/30/2016	Telephone: 800-424-9346
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/10/2016
	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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (888) 372-7341
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (888) 372-7341
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (888) 372-7341
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (888) 372-7341
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

### ***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: 08/12/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/28/2016
	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: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/31/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 12/12/2016
	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: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/31/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 03/28/2016

Date Data Arrived at EDR: 03/30/2016

Date Made Active in Reports: 05/20/2016

Number of Days to Update: 51

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 06/28/2016

Next Scheduled EDR Contact: 10/10/2016

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

Date Data Arrived at EDR: 04/23/2010

Date Made Active in Reports: 05/25/2010

Number of Days to Update: 32

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3705

Last EDR Contact: 06/30/2016

Next Scheduled EDR Contact: 10/17/2016

Data Release Frequency: No Update Planned

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

Date Data Arrived at EDR: 04/23/2010

Date Made Active in Reports: 05/25/2010

Number of Days to Update: 32

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3705

Last EDR Contact: 06/28/2016

Next Scheduled EDR Contact: 10/17/2016

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

Date Data Arrived at EDR: 07/28/2015

Date Made Active in Reports: 08/05/2015

Number of Days to Update: 8

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3366

Last EDR Contact: 07/29/2016

Next Scheduled EDR Contact: 11/07/2016

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: 04/26/2016

Date Data Arrived at EDR: 04/29/2016

Date Made Active in Reports: 05/18/2016

Number of Days to Update: 19

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3376

Last EDR Contact: 07/05/2016

Next Scheduled EDR Contact: 10/17/2016

Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	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: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

## 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: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	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: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

## 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: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

## 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: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015	Source: EPA Region 7
Date Data Arrived at EDR: 02/12/2016	Telephone: 913-551-7003
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 112	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/19/2016	Telephone: 214-665-6597
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 105	Next Scheduled EDR Contact: 11/07/2016
	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: 07/07/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/24/2016
	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.

Date of Government Version: 05/17/2016	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 06/01/2016	Telephone: 860-424-3376
Date Made Active in Reports: 07/19/2016	Last EDR Contact: 08/29/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/12/2016
	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: 07/01/2016	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 07/29/2016	Telephone: 860-424-3233
Date Made Active in Reports: 08/16/2016	Last EDR Contact: 07/13/2016
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

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: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

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: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

## 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	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/27/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

## 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: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	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).

Date of Government Version: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

## 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: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

## 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: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***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: 08/05/2016  
Next Scheduled EDR Contact: 11/14/2016  
Data Release Frequency: Varies

### AUL: ELUR Sites

Environmental Land Use Restriction sites.

Date of Government Version: 08/04/2016  
Date Data Arrived at EDR: 08/08/2016  
Date Made Active in Reports: 09/21/2016  
Number of Days to Update: 44

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3912  
Last EDR Contact: 08/03/2016  
Next Scheduled EDR Contact: 11/21/2016  
Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### 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  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

### 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: 07/27/2015  
Date Data Arrived at EDR: 09/29/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 142

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 07/01/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: Varies

### VCP: Voluntary Remediation Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 05/17/2016  
Date Data Arrived at EDR: 05/20/2016  
Date Made Active in Reports: 06/22/2016  
Number of Days to Update: 33

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3705  
Last EDR Contact: 08/03/2016  
Next Scheduled EDR Contact: 11/21/2016  
Data Release Frequency: Varies

## ***State and tribal Brownfields sites***

### 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?]"

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/11/2016  
Date Data Arrived at EDR: 06/22/2016  
Date Made Active in Reports: 09/01/2016  
Number of Days to Update: 71

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3705  
Last EDR Contact: 06/22/2016  
Next Scheduled EDR Contact: 10/03/2016  
Data Release Frequency: Varies

## 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: 03/25/2016  
Date Data Arrived at EDR: 03/29/2016  
Date Made Active in Reports: 05/18/2016  
Number of Days to Update: 50

Source: Connecticut Brownfields Redevelopment Authority  
Telephone: 860-258-7833  
Last EDR Contact: 09/19/2016  
Next Scheduled EDR Contact: 01/02/2017  
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.

Date of Government Version: 06/21/2016  
Date Data Arrived at EDR: 06/22/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 72

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 09/21/2016  
Next Scheduled EDR Contact: 01/02/2017  
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: 06/16/2016  
Date Data Arrived at EDR: 06/21/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 56

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3223  
Last EDR Contact: 09/12/2016  
Next Scheduled EDR Contact: 12/26/2016  
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: 08/05/2016  
Next Scheduled EDR Contact: 11/14/2016  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/20/2016  
Next Scheduled EDR Contact: 10/07/2016  
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 that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/04/2016  
Date Data Arrived at EDR: 06/03/2016  
Date Made Active in Reports: 07/13/2016  
Number of Days to Update: 40

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/31/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: No Update Planned

### CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations included in the Spills database.

Date of Government Version: 08/16/2016  
Date Data Arrived at EDR: 08/23/2016  
Date Made Active in Reports: 09/21/2016  
Number of Days to Update: 29

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3361  
Last EDR Contact: 07/05/2016  
Next Scheduled EDR Contact: 10/17/2016  
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: 05/04/2016  
Date Data Arrived at EDR: 06/03/2016  
Date Made Active in Reports: 07/13/2016  
Number of Days to Update: 40

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/31/2016  
Next Scheduled EDR Contact: 12/12/2016  
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: 05/17/2016  
Date Data Arrived at EDR: 05/20/2016  
Date Made Active in Reports: 06/22/2016  
Number of Days to Update: 33

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3705  
Last EDR Contact: 08/03/2016  
Next Scheduled EDR Contact: 11/21/2016  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LIENS: Environmental Liens Listing

A listing of environmental liens placed by the Cost Recovery Program.

Date of Government Version: 10/23/2015  
Date Data Arrived at EDR: 11/20/2015  
Date Made Active in Reports: 12/18/2015  
Number of Days to Update: 28

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3120  
Last EDR Contact: 05/13/2016  
Next Scheduled EDR Contact: 08/29/2016  
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: 07/29/2016  
Next Scheduled EDR Contact: 11/07/2016  
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.

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: 06/28/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: Annually

### SPILLS: Oil & Chemical Spill Database

Oil and Chemical Spill Data.

Date of Government Version: 08/16/2016  
Date Data Arrived at EDR: 08/23/2016  
Date Made Active in Reports: 09/21/2016  
Number of Days to Update: 29

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3024  
Last EDR Contact: 07/05/2016  
Next Scheduled EDR Contact: 10/17/2016  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/21/2016  
Date Data Arrived at EDR: 06/30/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 64

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/30/2016  
Next Scheduled EDR Contact: 10/17/2016  
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: 09/09/2016  
Next Scheduled EDR Contact: 12/19/2016  
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: 07/15/2016  
Next Scheduled EDR Contact: 10/24/2016  
Data Release Frequency: Semi-Annually

## 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  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 07/15/2016  
Next Scheduled EDR Contact: 10/24/2016  
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  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 08/15/2016  
Next Scheduled EDR Contact: 11/28/2016  
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: 05/08/2016  
Date Data Arrived at EDR: 05/18/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 107

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 08/17/2016  
Next Scheduled EDR Contact: 11/28/2016  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 08/08/2016
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/21/2016
	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: 09/06/2016
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Varies

## 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: 06/24/2016
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/03/2016
	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: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-566-0250
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 08/26/2016
Number of Days to Update: 133	Next Scheduled EDR Contact: 12/05/2016
	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: 07/25/2016
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 09/09/2016
Number of Days to Update: 74	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Annually

### RMP: Risk Management Plans

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: 05/01/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/26/2016	Telephone: 202-564-8600
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 07/25/2016
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/07/2016
	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: 08/12/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/21/2016
	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: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 07/15/2016
Number of Days to Update: 127	Next Scheduled EDR Contact: 10/24/2016
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/07/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 10/24/2016
	Data Release Frequency: Quarterly

**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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	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: 03/07/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/18/2016	Telephone: 301-415-7169
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 09/05/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/21/2016
	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	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 09/09/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/19/2016
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/06/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/29/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/07/2016
	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.

Date of Government Version: 07/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 07/07/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/17/2016
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	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	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 08/02/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/14/2016
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 04/06/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 149

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 07/15/2016  
Next Scheduled EDR Contact: 10/10/2016  
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: 08/26/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Biennially

## 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: 07/15/2016  
Next Scheduled EDR Contact: 10/24/2016  
Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/11/2016  
Date Data Arrived at EDR: 03/15/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 80

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 07/26/2016  
Next Scheduled EDR Contact: 11/21/2016  
Data Release Frequency: Varies

## 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: 09/09/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016  
Date Data Arrived at EDR: 04/07/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 148

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 07/08/2016  
Next Scheduled EDR Contact: 10/17/2016  
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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/20/2015  
Date Data Arrived at EDR: 10/27/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 69

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 06/22/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015  
Date Data Arrived at EDR: 10/27/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 69

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 06/22/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: Annually

## 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: 02/09/2016  
Date Data Arrived at EDR: 03/02/2016  
Date Made Active in Reports: 04/15/2016  
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 09/01/2016  
Next Scheduled EDR Contact: 12/12/2016  
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  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 09/02/2016  
Next Scheduled EDR Contact: 12/12/2016  
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  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 09/02/2016  
Next Scheduled EDR Contact: 12/12/2016  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/20/2015	Source: EPA
Date Data Arrived at EDR: 09/09/2015	Telephone: (617) 918-1111
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 09/07/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/24/2016
Number of Days to Update: 91	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 09/19/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Varies

## AIRS: Permitted Air Sources Listing

A listing of permitted air sources in Connecticut.

Date of Government Version: 07/11/2016	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 07/29/2016	Telephone: 860-424-3026
Date Made Active in Reports: 08/18/2016	Last EDR Contact: 07/25/2016
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/07/2016
	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.

Date of Government Version: 03/01/2016	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 03/03/2016	Telephone: 860-424-3766
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 08/03/2016
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

## DRYCLEANERS: Drycleaner Facilities

A listing of drycleaner facility locations.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/12/2016  
Next Scheduled EDR Contact: 12/26/2016  
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: 07/15/2016  
Date Data Arrived at EDR: 07/19/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 28

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3265  
Last EDR Contact: 07/13/2016  
Next Scheduled EDR Contact: 10/31/2016  
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: 06/30/2016  
Date Data Arrived at EDR: 07/13/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 34

Source: Department of Energy & Environmental Protection  
Telephone: 860-418-5930  
Last EDR Contact: 09/19/2016  
Next Scheduled EDR Contact: 01/02/2017  
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: 06/30/2016  
Date Data Arrived at EDR: 07/13/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 34

Source: Department of Energy & Environmental Protection  
Telephone: 860-418-5930  
Last EDR Contact: 09/19/2016  
Next Scheduled EDR Contact: 01/02/2017  
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: 09/02/2016  
Next Scheduled EDR Contact: 12/19/2016  
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.

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 08/10/2016  
Next Scheduled EDR Contact: 11/28/2016  
Data Release Frequency: No Update Planned

## NPDES: Wastewater Permit Listing

A listing of permits issued by the DEP.

Date of Government Version: 07/08/2016  
Date Data Arrived at EDR: 07/12/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 35

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3832  
Last EDR Contact: 07/07/2016  
Next Scheduled EDR Contact: 10/10/2016  
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: 07/15/2016  
Date Data Arrived at EDR: 07/26/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 21

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3766  
Last EDR Contact: 07/22/2016  
Next Scheduled EDR Contact: 10/31/2016  
Data Release Frequency: Varies

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015  
Date Data Arrived at EDR: 09/23/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 103

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 09/20/2016  
Next Scheduled EDR Contact: 01/02/2017  
Data Release Frequency: Quarterly

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/24/2016  
Date Data Arrived at EDR: 05/25/2016  
Date Made Active in Reports: 07/13/2016  
Number of Days to Update: 49

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 08/23/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Quarterly

## **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.

# 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: No Update Planned

## EDR Hist Auto: 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.

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 Hist Cleaner: 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

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: 07/11/2016  
Next Scheduled EDR Contact: 10/24/2016  
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: 08/01/2016  
Date Data Arrived at EDR: 08/03/2016  
Date Made Active in Reports: 09/09/2016  
Number of Days to Update: 37

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/03/2016  
Next Scheduled EDR Contact: 11/14/2016  
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: 07/18/2016  
Next Scheduled EDR Contact: 10/31/2016  
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: 09/20/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Annually

### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 05/02/2016  
Date Data Arrived at EDR: 05/24/2016  
Date Made Active in Reports: 07/13/2016  
Number of Days to Update: 50

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 07/18/2016  
Next Scheduled EDR Contact: 10/31/2016  
Data Release Frequency: Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 04/14/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 50

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 09/12/2016  
Next Scheduled EDR Contact: 12/26/2016  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation

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

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**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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

WAPPING ROAD  
WAPPING ROAD  
BROAD BROOK, CT 06016

### TARGET PROPERTY COORDINATES

Latitude (North):	41.880756 - 41° 52' 50.72"
Longitude (West):	72.547615 - 72° 32' 51.41"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	703491.9
UTM Y (Meters):	4639231.5
Elevation:	184 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	5644932 BROAD BROOK, CT
Version Date:	2012
South Map:	5644954 MANCHESTER, 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).

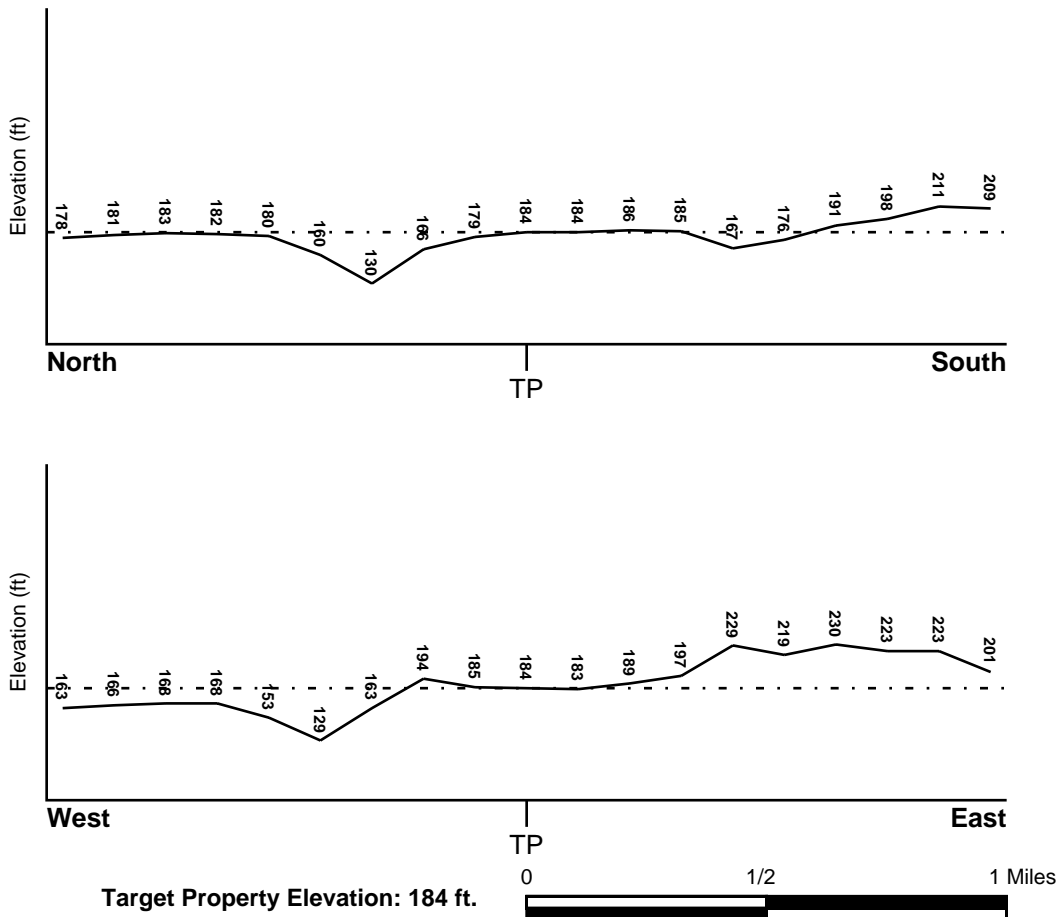
## TOPOGRAPHIC INFORMATION

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 North

## 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>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
09003C0245F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
09003C0239F	FEMA FIRM Flood data
09003C0377F	FEMA FIRM Flood data
09003C0381F	FEMA FIRM Flood data
09003C0382F	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
BROAD BROOK	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**

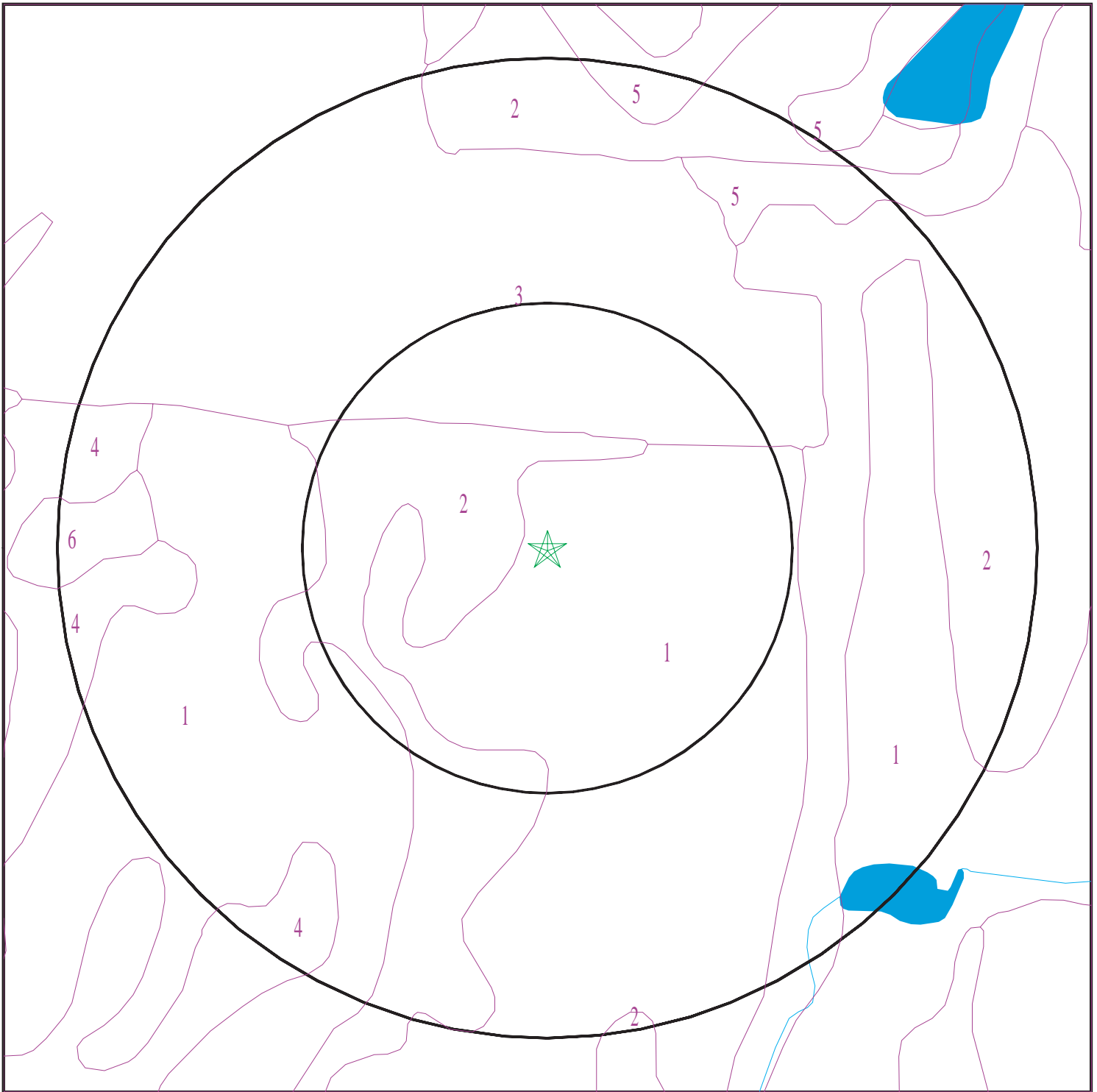
Era:	Mesozoic
System:	Triassic
Series:	Triassic
Code:	Tr ( <i>decoded above as Era, System &amp; Series</i> )

#### **GEOLOGIC AGE IDENTIFICATION**

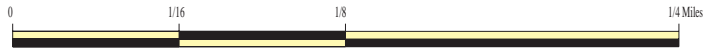
Category: Stratified Sequence

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 - 4734249.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Wapping Road  
ADDRESS: Wapping Road  
Broad Brook CT 06016  
LAT/LONG: 41.880756 / 72.547615

CLIENT: GeoQuest, Inc.  
CONTACT: Beth  
INQUIRY #: 4734249.2s  
DATE: September 22, 2016 4:47 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: Haven

Soil Surface Texture: silt 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

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

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	7 inches	silt 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
2	7 inches	14 inches	silt 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	20 inches	silt 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



## 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		
4	20 inches	24 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	24 inches	59 inches	stratified very gravelly sand to gravelly fine sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5

### Soil Map ID: 2

Soil Component Name: Haven

Soil Surface Texture: silt 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

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

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	7 inches	silt 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

## 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	silt 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	20 inches	silt 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	20 inches	24 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	24 inches	59 inches	stratified very gravelly sand to gravelly fine sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5

### Soil Map ID: 3

Soil Component Name: Udorthents

Soil Surface Texture: 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: Well drained

Hydric Status: Unknown

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	5 inches	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: 7.8 Min: 4.5
2	5 inches	21 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: 703 Min: 0.01	Max: 7.8 Min: 4.5
3	21 inches	79 inches	very gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 0.01	Max: 7.8 Min: 4.5

### Soil Map ID: 4

Soil Component Name: Haven

Soil Surface Texture: silt 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

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

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	7 inches	silt 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
2	7 inches	14 inches	silt 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	20 inches	silt 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	20 inches	24 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	24 inches	59 inches	stratified very gravelly sand to gravelly fine sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5

### Soil Map ID: 5

Soil Component Name: Manchester

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

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	9 inches	gravelly 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: 141 Min: 42	Max: 6 Min: 4.5
2	9 inches	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 6 Min: 4.5
3	18 inches	64 inches	stratified extremely gravelly coarse sand to very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 6 Min: 4.5

**Soil Map ID: 6**

Soil Component Name: Hinckley

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

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	7 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
2	7 inches	20 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
3	20 inches	27 inches	very gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
4	27 inches	42 inches	stratified cobbly coarse sand to extremely gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 703 Min: 141	Max: 6 Min: 3.5
5	42 inches	59 inches	stratified cobbly coarse sand to extremely gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 703 Min: 141	Max: 6 Min: 3.5

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## 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.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000229385	1/8 - 1/4 Mile SSE
2	USGS40000229400	1/4 - 1/2 Mile East
3	USGS40000229387	1/4 - 1/2 Mile ESE
4	USGS40000229353	1/2 - 1 Mile South
5	USGS40000229483	1/2 - 1 Mile NE
6	USGS40000229454	1/2 - 1 Mile ENE
7	USGS40000229442	1/2 - 1 Mile ENE
8	USGS40000229521	1/2 - 1 Mile NNE
9	USGS40000229499	1/2 - 1 Mile NE
10	USGS40000229373	1/2 - 1 Mile WSW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

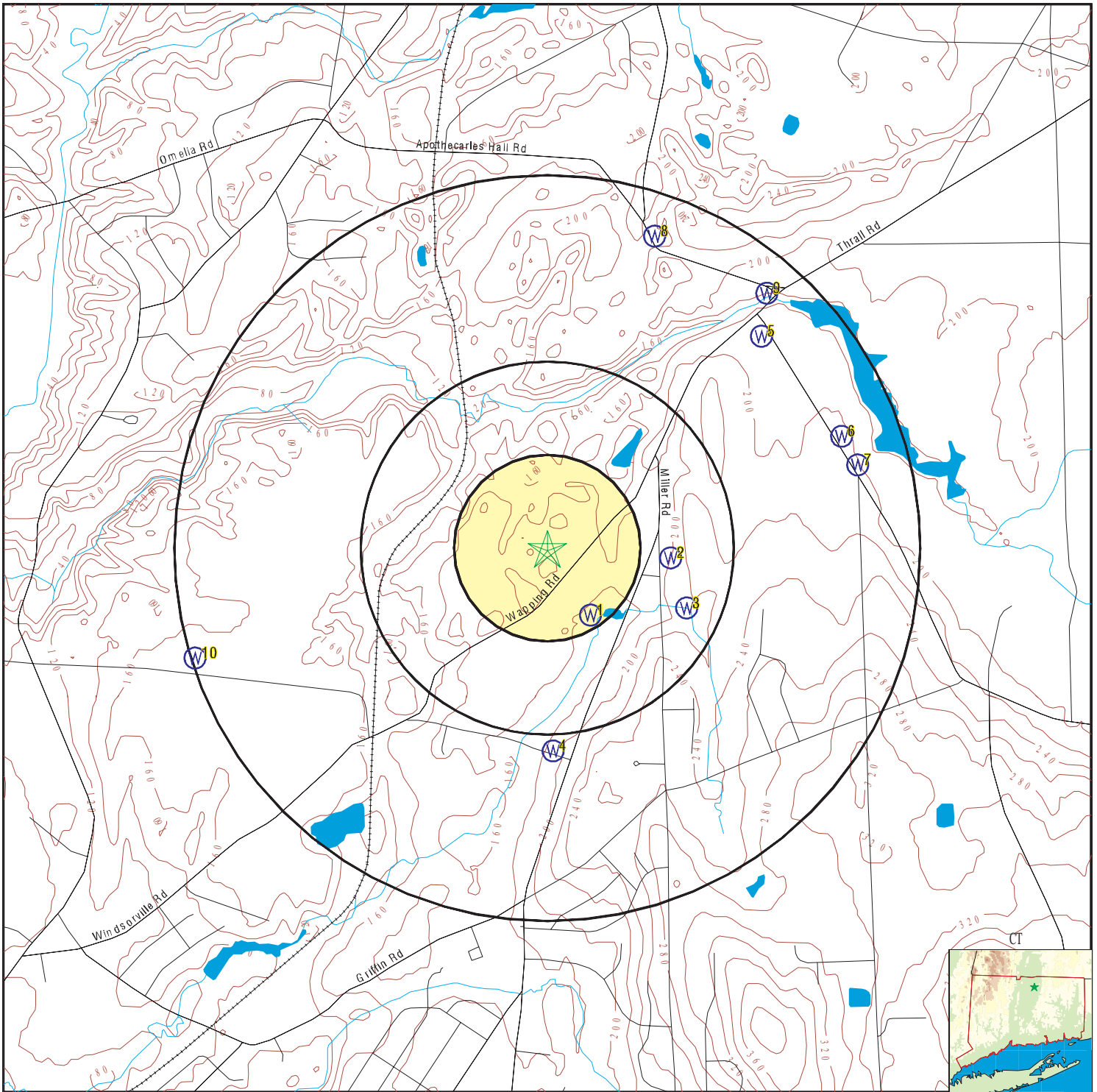
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

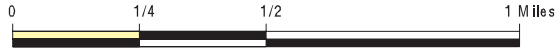
## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

# PHYSICAL SETTING SOURCE MAP - 4734249.2s



- |  |  |                              |
|--|--|------------------------------|
| County Boundary                            | Groundwater Flow Direction                 | EPA Designated Sole Src. Aq. |
| Major Roads                                | Indeterminate Groundwater Flow at Location |                              |
| Contour Lines                              | Groundwater Flow Varies at Location        |                              |
| Earthquake epicenter, Richter 5 or greater | Closest Hydrogeological Data               |                              |
| Water Wells                                |  |                              |
| Public Water Supply Wells                  |  |                              |
| Cluster of Multiple Icons                  |  |                              |



SITE NAME: Wapping Road  
 ADDRESS: Wapping Road  
 Broad Brook CT 06016  
 LAT/LONG: 41.880756 / 72.547615

CLIENT: GeoQuest, Inc.  
 CONTACT: Beth  
 INQUIRY #: 4734249.2s  
 DATE: September 22, 2016 4:47 pm



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**1**  
**SSE**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000229385**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415241072324501		
Monloc name:	CT-EW 83		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8781534
Longitude:	-72.5453651	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	180.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1957	Welldepth:	360
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel
-----		
1958-07-01	31.00	

**2**  
**East**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS      USGS40000229400**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415249072323001		
Monloc name:	CT-EW 19		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8803756
Longitude:	-72.5411983	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	195.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	165
Construction date:	Not Reported	Wellholedepth:	Not Reported
Welldepth units:	ft		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1948-01-01	35.00	

**3**  
**ESE**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS      USGS40000229387**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415242072322701		
Monloc name:	CT-EW 131		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8784312
Longitude:	-72.540365	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	215.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1967	Welldepth:	70
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1967-04-01	10.00	

**4**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000229353**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415222072325201		
Monloc name:	CT-EW 130		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8728757
Longitude:	-72.5473097	Sourcemap scale:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	175.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1969	Welldepth:	125
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1969-02-01	40.00	

**5**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000229483**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415320072321301		
Monloc name:	CT-EW 129		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8889866
Longitude:	-72.5364759	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	195.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1965	Welldepth:	50
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1965-10-01	23.00	

**6**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000229454**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415306072315801		
Monloc name:	CT-EW 20		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8850978
Longitude:	-72.5323091	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	205.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1934	Welldepth:	132
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1948-01-01	19.00	

7

**ENE  
1/2 - 1 Mile  
Higher**

**FED USGS**

**USGS40000229442**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415302072315501		
Monloc name:	CT-EW 95		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8839867
Longitude:	-72.5314757	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	205.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Sedimentary Bedrock		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	125
Construction date:	1966	Wellholedepth:	Not Reported
Welldepth units:	ft		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1966-10-01	15.00	

**8**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000229521**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415334072323301		
Monloc name:	CT-EW 67		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8928755
Longitude:	-72.5420316	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	190.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1955	Welldepth:	200
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1955-11-01	65.00	

**9**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000229499**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415326072321201		
Monloc name:	CT-EW 16		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8906533
Longitude:	-72.5361981	Sourcemap scale:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	180.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	75
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1948-01-01	1.00	

**10**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000229373**

Org. Identifier:	USGS-CT		
Formal name:	USGS Connecticut Water Science Center		
Monloc Identifier:	USGS-415235072335901		
Monloc name:	CT-EW 93		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01080205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.8764868
Longitude:	-72.5659215	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	160.00
Vert measure units:	feet	Vertacc measure val:	5.
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Sedimentary Bedrock		
Aquifer type:	Not Reported		
Construction date:	1966	Welldepth:	400
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 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
Southington	27	12 (44.4)	11 (40.7)	4 (14.8)	0 (0)	0 (0)	0 (0)
Suffield	12	10 (83.3)	2 (16.7)	0 (0)	0 (0)	0 (0)	0 (0)
Unionville	5	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Weatogue	6	6 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
West Hartford	55	46 (83.6)	7 (12.7)	1 (1.8)	1 (1.8)	0 (0)	0 (0)
West Simsbury	13	12 (92.3)	1 (7.7)	0 (0)	0 (0)	0 (0)	0 (0)
West Suffield	5	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Wethersfield	33	27 (81.8)	5 (15.2)	1 (3)	0 (0)	0 (0)	0 (0)
Windsor	19	15 (78.9)	4 (21.1)	0 (0)	0 (0)	0 (0)	0 (0)
Windsor Locks	8	8 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Tariffville	2	1 (50)	0 (0)	0 (0)	1 (50)	0 (0)	0 (0)
East Hampton	110	83 (100)	19 (0)	8 (0)	0 (0)	0 (0)	0 (0)
Manchester	34	24 (70.6)	10 (29.4)	0 (0)	0 (0)	0 (0)	0 (0)
Avon	15	8 (53.3)	6 (50)	1 (6.7)	0 (0)	0 (0)	0 (0)
Berlin	11	7 (63.6)	1 (9.1)	4 (36.4)	0 (0)	0 (0)	0 (0)
Bloomfield	7	7 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Bristol	17	10 (58.8)	4 (23.5)	3 (17.6)	0 (0)	0 (0)	0 (0)
Broad Brook	3	1 (33.3)	2 (66.7)	0 (0)	0 (0)	0 (0)	0 (0)
Burlington	125	125 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Canton	8	6 (75)	2 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Collinsville	1	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)
East Berlin	6	4 (66.7)	2 (33.3)	0 (0)	0 (0)	0 (0)	0 (0)
East Granby	13	8 (61.5)	0 (0)	1 (7.7)	0 (0)	4 (30.8)	0 (0)
East Hartford	20	20 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
East Hartland	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
East Windsor	4	3 (75)	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Enfield	2	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Farmington	34	31 (91.2)	1 (2.9)	0 (5.9)	2 (0)	0 (0)	0 (0)
Forestville	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Glastonbury	152	120 (78.9)	22 (14.5)	5 (3.3)	4 (2.6)	0 (0)	1 (.7)
Granby	10	8 (80)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)
Hartford	99	95 (96)	5 (4)	0 (0)	0 (0)	0 (0)	0 (0)
Kensington	7	6 (85.7)	1 (14.3)	0 (0)	0 (0)	0 (0)	0 (0)
Marion	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Marlborough	16	12 (75)	4 (25)	0 (0)	0 (0)	0 (0)	0 (0)
New Britain	20	13 (65)	5 (25)	2 (10)	0 (0)	0 (0)	0 (0)
Newington	45	26 (57.8)	12 (26.7)	6 (13.3)	1 (2.2)	0 (0)	0 (0)
North Canton	2	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Plainville	2	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Plantsville	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Rocky Hill	24	19 (79.2)	3 (12.5)	2 (8.3)	0 (0)	0 (0)	0 (0)
Simsbury	13	12 (92.3)	1 (7.7)	0 (0)	0 (0)	0 (0)	0 (0)
South Glastonbury	13	10 (76.9)	0 (0)	1 (7.7)	1 (7.7)	0 (0)	1 (7.7)
South Windsor	23	23 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for HARTFORD County: 3

- 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: 06016

Number of sites tested: 3

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	1.200 pCi/L	100%	0%	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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

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 Service (NRCS)

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 Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, 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

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APPENDIX E

SUMMARY OF NORCAP CLOSURE TIME LINE

RECEIVED

FEB 21 2006

Landfill Closure Report  
NORCAP Landfill  
Wapping Road, East Windsor, CT

EXECUTIVE SUMMARY OF  
DEP-WASTE MANAGEMENT BUREAU  
WATER POLLUTION CONTROL & ENFORCEMENT

Closure Timeline

- The Northern Capitol Region Disposal Facility, Inc. (NORCAP) landfill on Wapping Road, East Windsor, CT was closed in four parts. The first part was in October and November 1997. Membrane placement and seaming was undertaken by Resicon Containment, Inc. Part two was completed in June through July 1998 by New England Liner, Inc. Part three was completed in November 1998 by Samleen, LLC. The fourth part was also completed by Samleen, LLC in August through September 2002.
- Botticello, Inc. undertook earthwork, including placement of the cover soils and topsoil layer, and vegetation between 1997 and 2003. Repairs of "wash-outs" were completed in 2004. Drainage improvements were finished in January 2006.

Closure Activities

- Geomembrane panels were deployed by the installers, and then seams were welded together by both fusion welding and extrusion welding. Destructive and non-destructive field tests were performed by the installers. Laboratory testing was undertaken by Geotesting Express of Boxborough, MA and Geotechnics of East Pittsburgh, PA.
- All geomembrane panel seams were tested. All known defects were repaired. Documentation of this is included in the report.
- Anchor Engineering observed field non-destructive testing and corrective measures. Documentation of this is included in the report.
- Following completion of geomembrane installation, cover soils and a vegetative growth layer were installed. Vegetation has been established over the entire landform.

Final Inspections

- On July 27 and 28, 2003, Anchor Engineering personnel excavated test holes (one per acre, forty-seven total) to verify thickness of soil cover and vegetative growth layers. All areas with the exception of three were found to have sufficient thickness to meet DEP requirements. Mark Zessin of Anchor Engineering and David McKeegan of DEP discussed this issue as well as the fact that cover soils had been installed over the landfill prior to the installation of the geomembrane as a soil preparation. It was concluded that the existing stabilized vegetation should not be disturbed to increase the thickness in these three areas.
- Both prior to and since the time of landfill capping, Anchor Engineering has performed continuous quarterly monitoring of groundwater, surface water, and perimeter landfill gas in accordance with the DEP permit for the site. Vegetative cover was observed as recently as December 2005.
- On December 7, 2005 all areas of the landform were observed to have fully maintained their stability.

APPENDIX F  
HISTORICAL AERIAL PHOTOGRAPHS



Wapping Road

Wapping Road

Broad Brook, CT 06016

Inquiry Number: 4734249.5

September 23, 2016

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



INQUIRY #: 4734249.5

YEAR: 2012

— = 500'







INQUIRY #: 4734249.5

YEAR: 2010

— = 500'



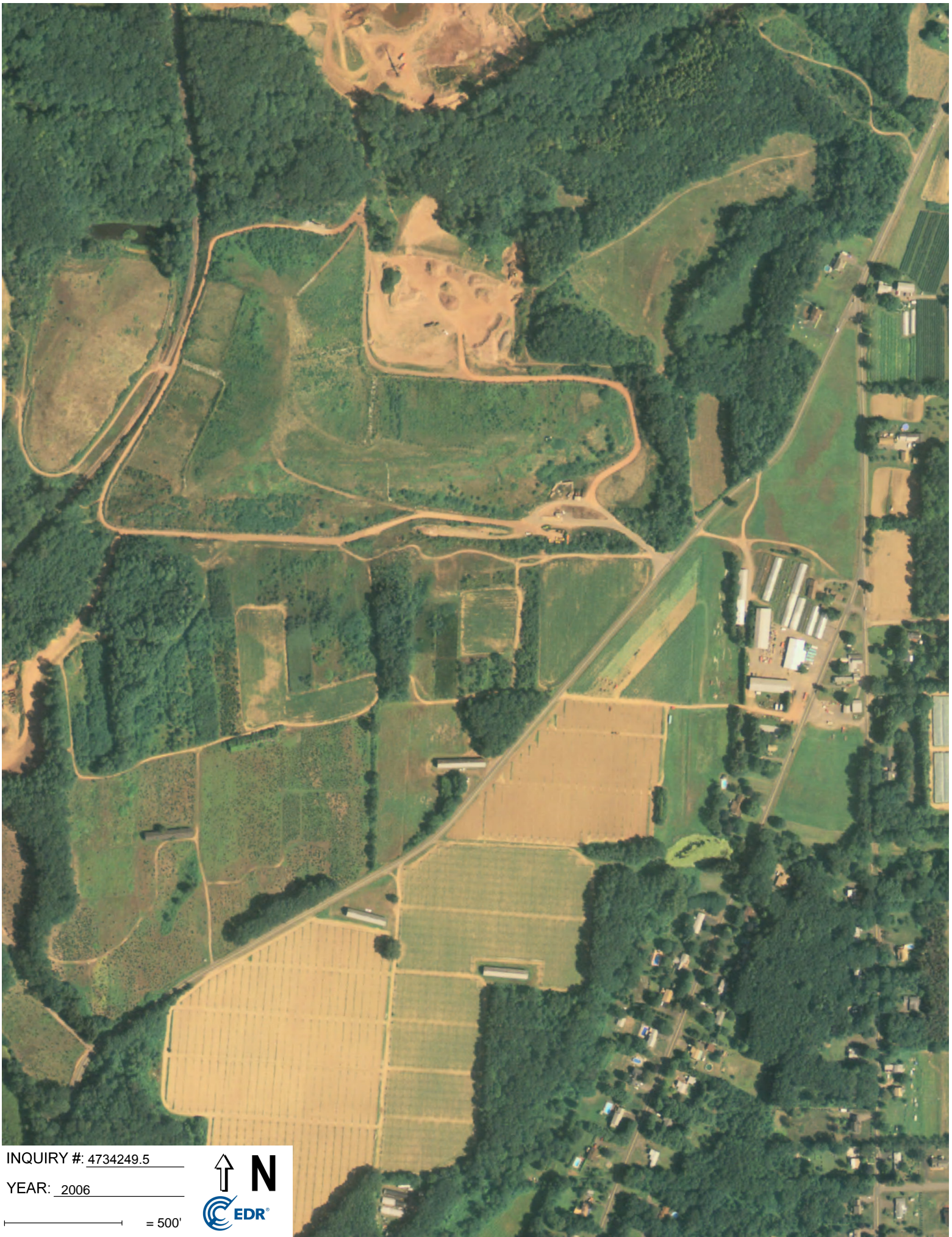


INQUIRY #: 4734249.5

YEAR: 2008

— = 500'





INQUIRY #: 4734249.5

YEAR: 2006

— = 500'





INQUIRY #: 4734249.5

YEAR: 2005

— = 500'





INQUIRY #: 4734249.5

YEAR: 1995

— = 500'





INQUIRY #: 4734249.5

YEAR: 1990

— = 500'





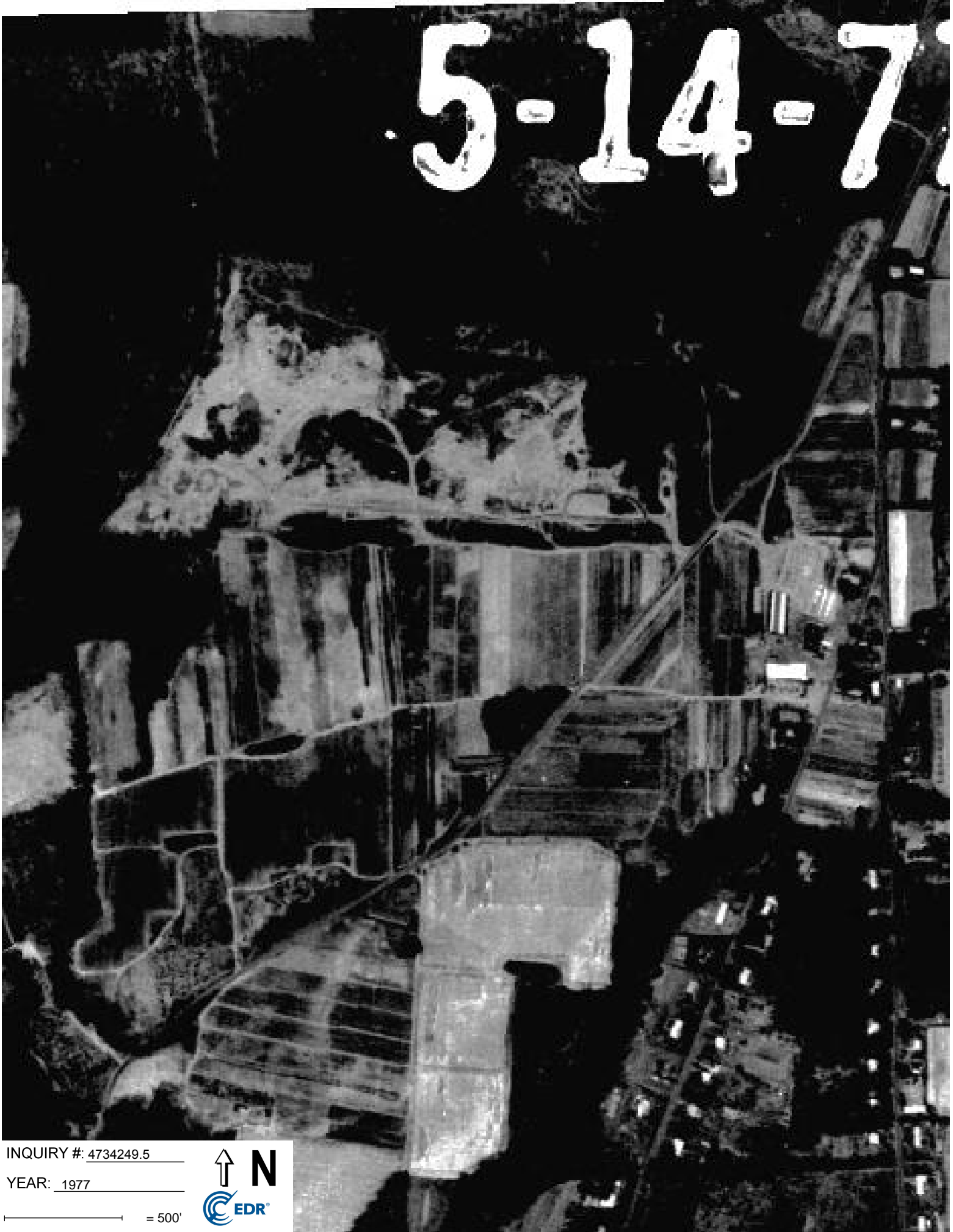
INQUIRY #: 4734249.5

YEAR: 1986

— = 500'



5-14-77



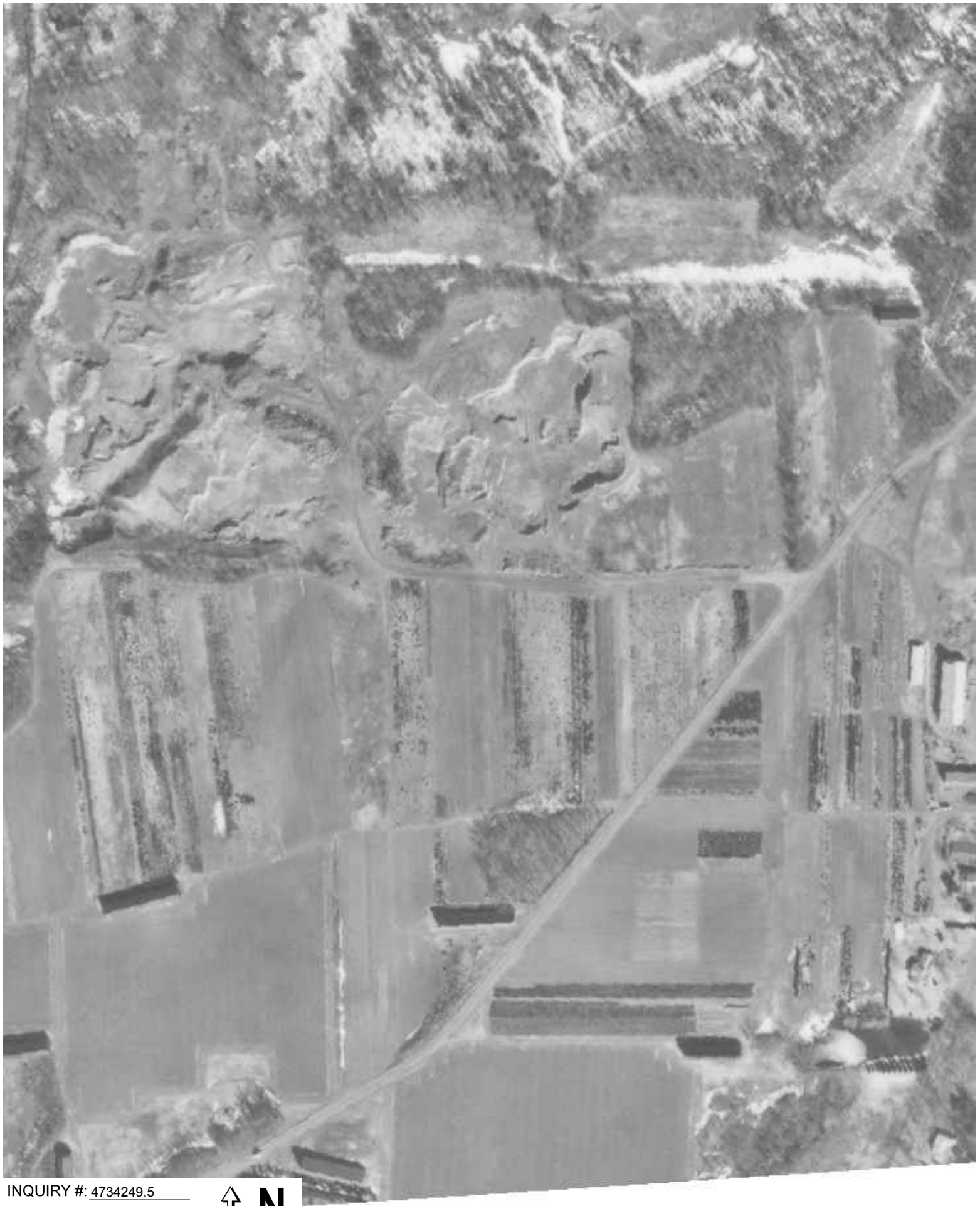
INQUIRY #: 4734249.5

YEAR: 1977

— = 500'







INQUIRY #: 4734249.5

YEAR: 1970

— = 500'





INQUIRY #: 4734249.5

YEAR: 1968

— = 500'



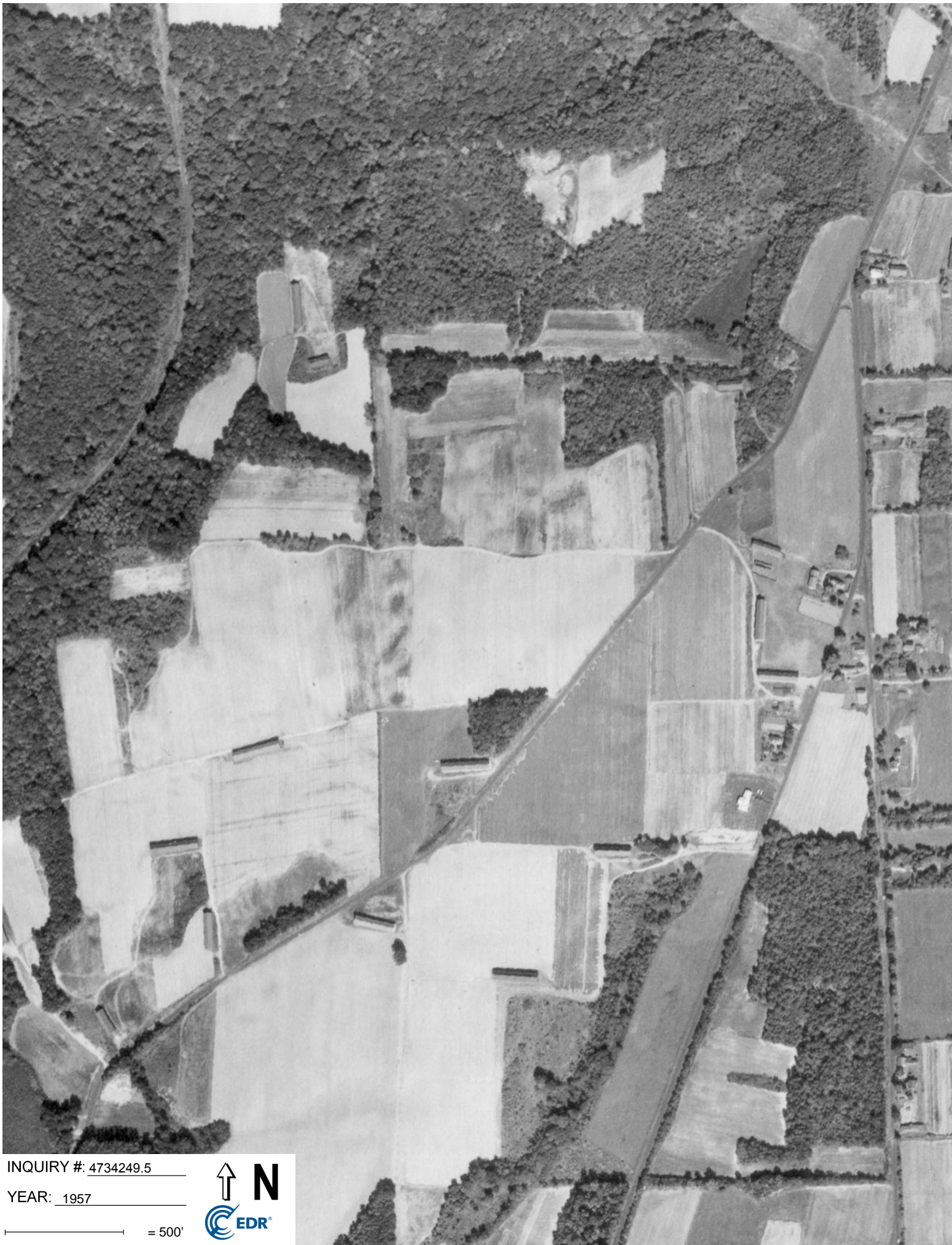


INQUIRY #: 4734249.5

YEAR: 1963

— = 500'





INQUIRY #: 4734249.5

YEAR: 1957

— = 500'



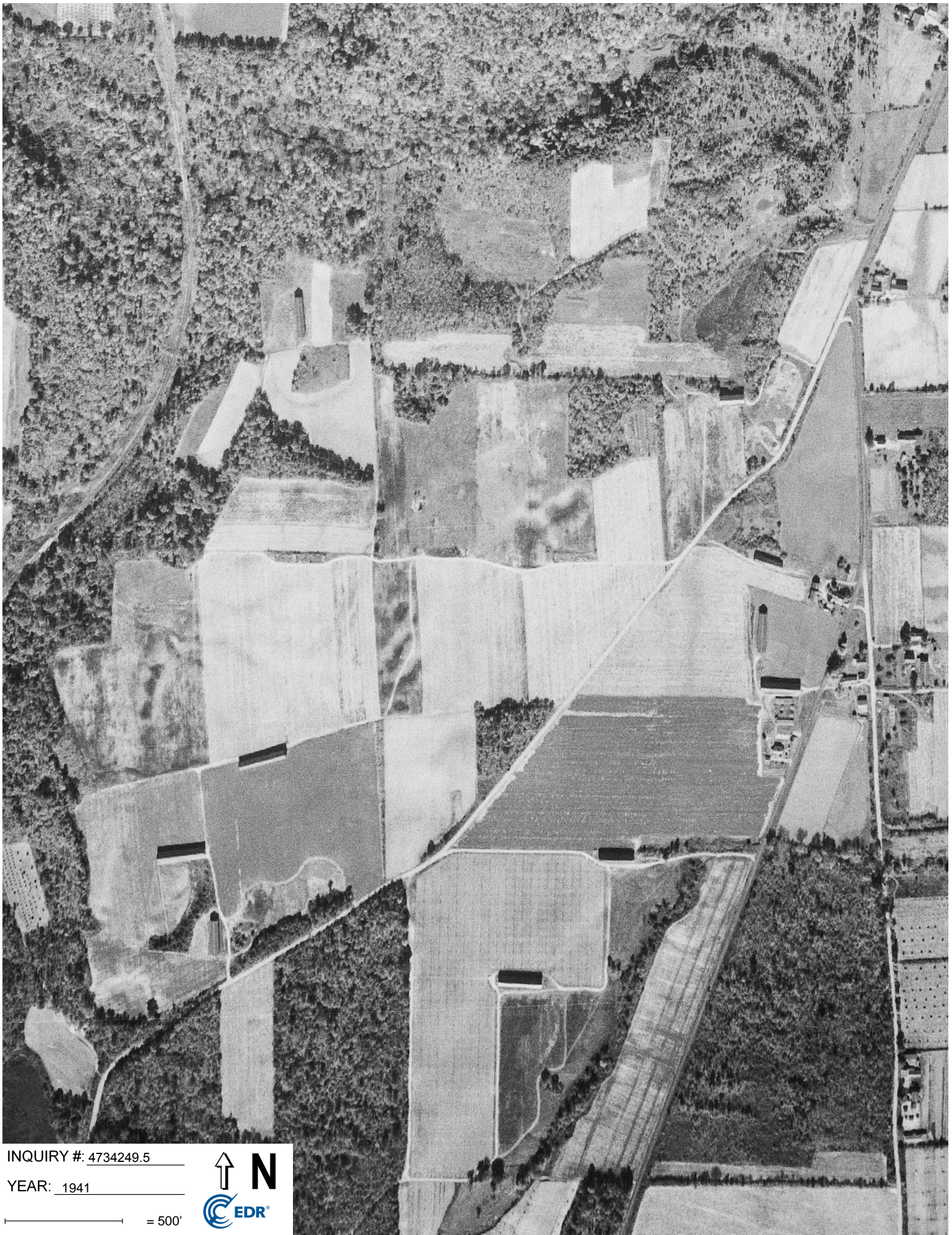


INQUIRY #: 4734249.5

YEAR: 1951

 = 500'





INQUIRY #: 4734249.5

YEAR: 1941

— = 500'





INQUIRY #: 4734249.5



YEAR: 1934

— = 500'





**LEGEND**

-  RESIDENTIAL HOUSE
-  PHOTOGRAPH LOCATION

**NEARBY RESIDENCES MAP**

*Norcap South  
Solar Field*  
Wapping Road  
East Windsor, Connecticut



**RUSSO**  
SURVEYORS • ENGINEERS  
SERVING CT & MA

J.R. Russo & Associates, LLC  
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www.jrusso.com • info@jrusso.com

<b>DATE</b>	3-3-17
<b>SCALE</b>	1"=600'
<b>JOB NUMBER</b>	2016-037
<b>SHEET</b>	EXHIBIT

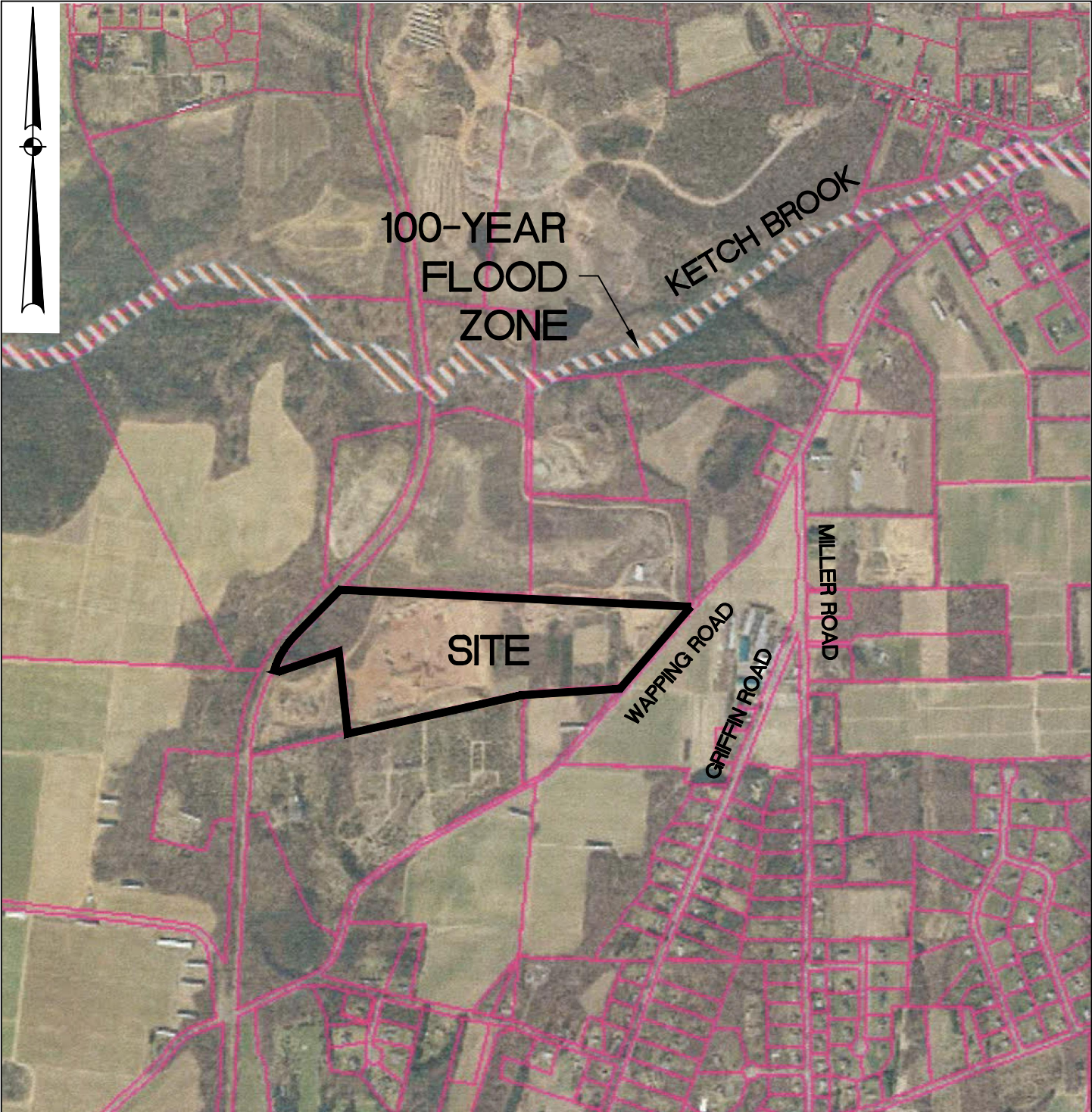




PHOTOGRAPH 1 – FROM WAPPING ROAD FACING NORTHWEST



PHOTOGRAPH 2 – FROM WAPPING ROAD FACING WEST



*FLOOD MAP*

*Norcap South  
Solar Field*

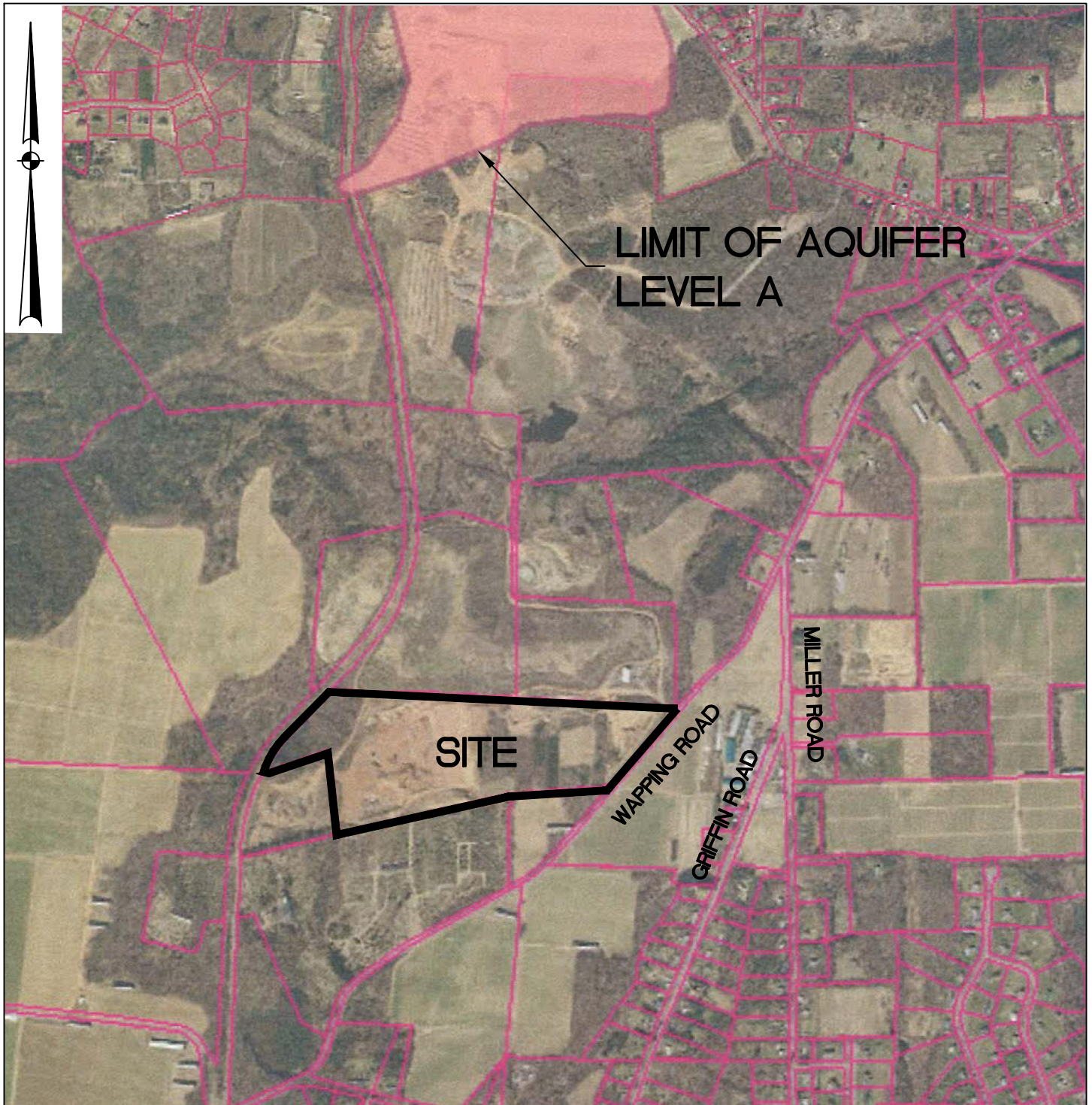
Wapping Road  
East Windsor, Connecticut

*SOURCE:  
EAST WINDSOR GIS W/FLOOD BOUNDARY  
OVERLAYS*



J.R. Russo & Associates, LLC  
1 Shoham Rd East Windsor, CT 06088 • CT 860.623.0569 • MA 413.785.1158  
www.jrusso.com • info@russo.com

DATE	8-10-16
SCALE	1"=1000'
JOB NUMBER	2016-037
SHEET	EXHIBIT XII



*AQUIFER MAP*

*Norcap South  
Solar Field*

Wapping Road  
East Windsor, Connecticut

SOURCE:  
EAST WINDSOR GIS W/2012 AERIAL  
PHOTOGRAPH & AQUIFER BOUNDARY  
OVERLAYS



J.R. Russo & Associates, LLC  
1 Shoham Rd East Windsor, CT 06088 • CT 860.623.0569 • MA 413.785.1158  
www.jrusso.com • info@jrusso.com

DATE  
8-10-16

SCALE  
1"=1,000'

JOB NUMBER  
2016-037

SHEET  
EXHIBIT III

# RABER ASSOCIATES

CONSULTANTS IN THE HISTORICAL AND SOCIAL SCIENCES

December 14, 2016

Catherine Labadia  
Deputy State Historic Preservation Officer, Staff Archaeologist  
State Historic Preservation Office  
Connecticut Commission on Culture and Tourism  
One Constitution Plaza, Second Floor  
Hartford, CT 06103



**RE: *Norcap South Solar Development  
Town of East Windsor, Connecticut***

Dear Ms. Labadia:

This letter and the attached report supplement the letter sent to you on August 11, 2016 by Timothy Coon of J.R. Russo & Associates LLC, summarizing the Norcap North and Norcap South solar developments and requesting any evaluation you might have. Lodestar Energy LLC (Lodestar), a developer of renewable energy projects, will submit separate petitions to the Connecticut Siting Council (CSC) for approval of the two proposed projects. Based on past experience with similar projects, Raber Associates has completed the attached cultural resources assessment and reconnaissance survey for the Norcap South Project, including discussion of any potential viewshed impacts on structures listed or eligible for listing on the National Register of Historic Places.

In brief, the survey found that sand and gravel extraction and related operations appear to have removed all Holocene soils in the western half of the Project area, and stripped topsoil from most of the remaining area except in a small wooded area. Seventy-five tests in the area with stripped topsoil revealed some intact subsoils, but only very limited amounts of recent cultural material. Another thirteen tests in the wooded area revealed more intact soils, but similar results regarding cultural material. No subsurface cultural resources eligible for the National Register of Historic Places appear to exist within proposed Project limits. Historic resource surveys and listings of architectural properties on the National Register of Historic Places indicate no such properties listed, eligible, or potentially eligible for the National Register are located within approximately 1.5 miles of the Project area. Based on the criteria used in prior evaluations of visual effects, there appear to be no potential adverse visual effects from proposed construction.

No further cultural resource investigations, or protective measures to address indirect visual effects, appear necessary. Please contact me if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael S. Raber'. The signature is fluid and cursive, with a large, sweeping initial 'M'.

Michael S. Raber

Attachment

xc: Adam Beal, Lodestar Energy LLC  
Timothy Coon, J.R. Russo & Associates LLC

81 Dayton Road • P.O. Box 46  
South Glastonbury • CT 06073  
(860) 633-9026 voice/fax)/msraber@aol.com (e-mail)

# RABER ASSOCIATES

CONSULTANTS IN THE HISTORICAL AND SOCIAL SCIENCES



**CULTURAL RESOURCES INVESTIGATIONS**  
**FOR PROPOSED NORCAP SOUTH SOLAR DEVELOPMENT**  
**WAPPING ROAD, EAST WINDSOR, CONNECTICUT**

Michael S. Raber

prepared for:

Lodestar Energy LLC  
3 Ellsworth Place, Suite 122  
Avon, CT 06001

December 2016

81 Dayton Road • P.O. Box 46  
South Glastonbury • CT 06073  
(860) 633-9026/msraber@aol.com

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- 1. LOCATION OF NORCAP SOUTH PROJECT ON BROAD BROOK, CONN. U.S.G.S. 7.5-MINUTE QUADRANGLE**
- 2. PROJECT AREA LIMITS, APPROXIMATE GRAVEL PIT LIMITS, AND RECONNAISSANCE SHOVEL TEST PITS**
- 3. EARLY 2016 PROJECT AREA CONDITIONS**

## I. INTRODUCTION

Lodestar Energy LLC (Lodestar), a developer of renewable energy Projects, is currently developing plans for a ground-mounted solar photovoltaic facility at the Northern Capital Region Disposal Facility (NORCAP) on Wapping Road in East Windsor, Connecticut. Lodestar will submit a petition to the Connecticut Siting Council (CSC) for a declaratory ruling that no certificate of environmental compatibility and public need is required for the proposed Norcap South Project (Project). Among the issues to be addressed for approval of the Project's environmental compatibility, potential Project effects on cultural resources must be reviewed by the Connecticut State Historic Preservation Office (SHPO) under the Connecticut Environmental Policy Act (Connecticut General Statutes Chapter 439 Section 22a), Connecticut General Statutes Section 221-90 (1)(J), and under Section 16-50k(a) of the Public Utilities Environmental Standards Act (PUESA). Cultural resources subject to review under these acts include historic architectural properties, historic industrial or engineering resources, and pre-Contact or Euroamerican archaeological sites eligible for the state or national registers of historic places. Lodestar has provided SHPO with Project information, and based on past experience with similar Projects has initiated a professional cultural resources assessment and reconnaissance survey, including potential viewshed impacts on structures listed or eligible for listing on the National Register of Historic Places (letter, Timothy A. Coon to Catherine Labadia, August 11, 2015). To be eligible, cultural resources must possess physical integrity and meet at least one of the following criteria:

- A. Association with important historic events or activities;
- B. Association with important persons;
- C. Distinctive design or physical characteristics, including representation of a significant entity whose individual components may lack distinction;
- D. Potential to provide important information about prehistory or history.

Lodestar retained Raber Associates to conduct the investigations, which were completed to standards of the SHPO *Environmental Review Primer for Connecticut's Archaeological Resources*, and the Secretary of the Interior's "Standards for Archaeology and Historic Preservation" for Identification, Evaluation and Planning. Michael S. Raber acted as principal investigator. Marc L. Banks acted as project archaeologist, assisted by field technicians Chantal Henry, Amara Litten, Bonnie Plourde, and Wil Sikorsky. Background and field investigations were conducted between August and October 2016.

## II. PROJECT AREA, PROJECT DESCRIPTION AND ENVIRONMENTAL CONTEXT

The Norcap South Project area consists of 11.2 acres of leased undeveloped land immediately west of Wapping Road, the approximate west half of which has been mined for gravel. Unmined areas are relatively level, and include an open area from which topsoil was stripped in early 2016, and a densely-wooded area of approximately 1 acre along the south side of the proposed lease area. An earthen berm parallel to Wapping Road borders the open area. The Project will involve the construction of approximately 9.8 acres of ground-mounted solar photovoltaic panels and security fencing. The south side of the Project will be graded to create a vegetated berm which will act as a visual screen. The Project will include clearing and grubbing, grading, layout and placement of foundation systems, racking, and solar PV panels, installation of utility pads and associated electrical equipment, installation of electrical conduit, conduit supports, electrical poles, and overhead wire, and security fencing. No existing structures will be impacted by the proposed Project. The solar panels are expected to be supported on steel posts, and will extend approximately 8 feet above graded surfaces at the upper end of tilted panel surfaces. (Figures 1-3; J.R. Russo & Associates LLC 2016; personal communication, Dennis Botticello).

The Project area lies within Connecticut's Central Valley or Central Lowlands (sometimes known as North-Central Lowlands physiographic province). The valley, known to geologists as the Hartford Basin, is predominantly a lowland with "red-bed" Triassic sedimentary sandstone and arkose bedrock which slopes down to the east. The lowland is generally characterized by broad level surfaces in which the Connecticut River and most tributaries meander with limited slope, except where the waters encounter higher bedrock deposits. The bedrock underlies the lowland at varying depths, below relatively small-sized glacial till which is well covered in most places north of Rocky Hill by level deposits associated with late-glacial Lake Hitchcock and its smaller predecessor Lake Middletown. Project area bedrock depths are estimated to exceed 50 feet below the surface. Lake Hitchcock drowned the lowland along 150 miles of the present river course some 11-13,000 years ago. Lake deposits included fine silts and clays later exploited for brick manufacture, broad sandy deltaic fans or terrace deposits around larger tributary streams, and beach deposits of reddish brown sand, silt and gravel. Well-developed post-glacial sand dunes and other aeolian deposits are locally extensive above the lake and terrace deposits. After Lake Hitchcock drained, the river cut through the lake deposits, indifferent in most places to the erodible arkose, to create the gradual river slope seen in most of the lowland today. The Project area is drained by the Ketch Brook tributary of the Scantic River sub-basin of the Connecticut River. Ketch Brook flows just approximately 1500 feet north of the Project area, and runs through high, steep deposits of collapsed stratified glacial drift and deltaic deposits associated with Lake Middletown. Similar but more level glacial deposits underlie the Project area (Figure 1; Colton 1965; Hyde and Colton 1973; Dowhan and Craig 1976; Rodgers, ed. 1985; Bell 1985; Stone *et al.* 1998).

Aerial photographs and soil surveys indicate that until approximately 2010, the Project area had well-drained Enfield and Haven silt loam Holocene soils. Nearly all of the area was cultivated, with the exception of the wooded section. Recent sand and gravel extraction has removed all Holocene soils in the western half of the project area, but as confirmed by field investigations described in Section IV below the open area abutting Wapping Road retained intact subsoils, and the wooded area had largely intact soils (Figures 1-3; Fairchild Aerial Survey 1934; U.S. Geological Survey 1944; Robinson Aerial Surveys 1951-52; U.S. Department of Agriculture 1962, 2003, 2008; Keystone Aerial Surveys, Inc. 1965; Connecticut Department of Energy and Environmental Protection 2010).

In some periods of Native American and Euroamerican occupation, Ketch Brook likely provided freshwater and anadromous fish as prey, along with birds and mammals attracted to fresh water. Wetland plants may also have provided seasonal resources.



### III. BACKGROUND DATA AND CULTURAL RESOURCE SENSITIVITY

#### A. Native American Resources

##### 1. Summary of Regional Background Material

There are no reported Native American sites within at least several miles of the Project area, although this absence of data may reflect limited archaeological investigation rather than a lack of Native American activity in this vicinity. The nature and distribution of reported sites in central Connecticut probably reflects a wide variety of natural resources once available to Indian peoples, from shellfish, finfish, waterfowl and plants along the Connecticut River to seasonally-available mammals, birds, and fish on tributary drainages such as Ketch Brook. These resources were probably used in several types of settlement pattern, revealed in archaeological research conducted primarily after the mid-20<sup>th</sup> century. Prior to the introduction of agriculture in southern New England late in the first millennium A.D., archaeological evidence suggests there was generally more seasonal movement and less semi-permanent settlement through periods extending back to the earliest Native Americans in this region in Paleoindian times (c12,000-10,000 B.P.) . By Middle Archaic times, c6,000-8000 B.P., seasonal resource use was well established, and site types included spring fishing camps along major streams (Dincauze 1976; Barber 1981). During Late Archaic times, there may have been a shift from seasonal or task-specific occupation of knolls just above floodplain elevations to larger seasonal camps on terraces adjacent to the floodplain as well as knolls within floodplain areas. In Woodland and early historic/Contact times (c3,000-400 years ago), Native American settlement patterns in central Connecticut focused on semi-permanent villages near planting fields, with seasonal movements to hunting or sheltered winter camps, and continual short trips to hunt or collect mammals, fish, shellfish, and a wide variety of plant resources. The larger settlements in these periods were along the Connecticut River and its coves, with relatively level, well-drained areas along the upper river and its tributaries probably used for short-term or winter activities. The Late Woodland Period (c1,200-450 B.P.) is characterized regionally by the intensive use of maize, beans, and squash. Approximately 2 miles east of the Project, area the Late Woodland Fox Run 2 Site (Site No. 47-11) included a feature, radiometrically dated to  $600 \pm 60$  B.P., with includes charred maize and other organic materials. Fox Run 2 is one of a very small number of Connecticut Native American sites with charred maize, and the only one reported a mile or more from a coastline or major river. Archaeological work during the past few decades also suggests that the Farmington River Valley, a short distance from the Project area, was a relatively self-contained region for Native American social geography beginning in Late Archaic times (McBride 1978, 1984; Feder 1981; Raber 1997; Forrest 1999; Banks 2000; Jones and Forrest 2003; Forrest *et al.* 2006; Lavin 2013).

By the 1630s, when direct European contact was felt throughout Connecticut's coasts and larger rivers, Indians were organized in groups of small households which banded together along ethnic and territorial lines in larger villages during the spring and summer and dispersed during other seasons. These small groups engaged in hunting, fishing, and gathering of wild plant foods, and in the later prehistoric period were engaged in maize horticulture. During the Contact period, trapping of beaver and other fur-bearing animals was an important economic activity. In the late prehistoric and contact periods, settlement was focused on or adjacent to the flood plains of the major tributaries, reflecting the importance of agricultural activities, fishing, and access to transportation and communication routes. Planting in the spring and capture of anadromous fish at waterfalls and choke points brought together households. Upland areas were used for hunting, trapping, and gathering from the late summer through the winter by the component household groups of the larger ethnic divisions.

For reasons which remain unclear, there appears to be a strong correlation between the territorial boundaries of Indian ethnic groups and drainage boundaries by the 1630s. Social boundaries among the Algonquian-speaking Indians of southern New England were not rigid, and political organization for most purposes was loose, with male and occasionally female sachems recognized in limited spheres of authority. With fur trade, however, political and territorial boundaries hardened and the fortified villages observed by the Europeans may date to this era of inter-tribal conflicts. Competition for trapping grounds and access to

fur markets became intense in the early seventeenth century, and some English adjudication of such matters in Connecticut during later decades used drainage boundaries as political boundaries. There is evidence from other parts of New England for at least a historic period pattern of territoriality based on drainages, and to some extent this pattern probably predates European contact. We can only surmise at this point that stream locations and water resources were always important in determining the movement of game animals and their human predators, while at the same time watercourses were often effective avenues of travel in upland areas. With competition for fur animals, both initial demands for trapping grounds and expansion of these grounds as downstream areas were depleted of furs may have resulted in attempts to control headwater areas for the first time.

In the early 17th century, there was a substantial population of Native Americans in the Connecticut River Valley. The Algonquian-speaking peoples who lived there had practiced agriculture for 500-700 years, but they also continued to hunt, gather, and fish to supplement the crops from their fields. River meadows were the primary areas of maize cultivation (Stiles 1891). The Enfield Rapids would have been an obvious location for seasonal fishing camps, and there were probably villages with cultivated fields in the nearby area as well. Smaller bands hunted in this area in the fall and winter. The earliest white explorer, Adriaen Block, saw an Indian fort along the river above Hartford in 1614. European explorers and colonists, confused about the organization of and identification of various tribes and bands, have left us with many conflicting accounts of tribal names and leadership. Historians, responding to this confusion, have often referred to the many groups on the Connecticut River as the River Tribes. From early sources we see references to the Tunxis who lived to the west on the Farmington River, the Poquonocks at present Windsor, the Massacos above the Poquonocks near Simsbury, and the Sicaogs in present West Hartford. The territory of the Agawam, centered at present Springfield, extended as far south as Stony Brook in Suffield and at about the present border of Enfield and East Windsor. One authority has estimated the pre-epidemic population of these five "sachemdoms" at 3200 (Cook 1976: 57, 61-65). There were also Mattabesees, Wongunks, and Hammonassets south of Hartford. The Project area lies within the former territory of the Podunks, who occupied lands on the east side of the Connecticut river south of the Agawam to about Keeney Cove in present Glastonbury, and from whom some sources say English settlers purchased land rights in Enfield (Spiess and Bidwell 1924; Ingersoll, ed., 1934). To the south and east, larger tribes such as the Niantics, Pequots, and Mohegans lived along the coast and in interior areas (Cook 1976; DeForest 1851).

The Podunk population c1630 has been estimated at about 1600 people, who lived in six or seven villages and perhaps an unknown number of smaller winter encampments. Most of their principal villages were located on the Scantic, Podunk, and Hockanum rivers in present East Hartford, South Windsor, and Manchester, although some sources place two smaller villages in East Windsor, on the Scantic in the vicinity of present Broad Brook village and near the mouth of Namerick Brook. Given the models of settlement discussed above for prehistoric periods, small temporary camps or task-specific resource-procurement sites were probably dispersed within short distances of the villages. Known Podunk burial grounds were in South Windsor, on the Podunk River and opposite the mouth of the Farmington River. Burials found elsewhere, such as some at Warehouse Point uncovered before the early 19<sup>th</sup> century, have been attributed to the Podunk but could be from earlier groups (McClure 1806; Stiles 1891; Spiess and Bidwell 1924; Ingersoll, ed., 1934; Cook 1976).

The Dutch West India Company began a small trading post at later Hartford in 1623, stimulating a trade in furs which led to conflicts among Amerindian tribes. The Podunks and other River Tribes soon found themselves at odds with the larger Pequot and Mohegan groups of the Thames River drainage. The advent of English settlement around Hartford in the 1630s was in part a response to an invitation from a River Tribe sachem who may have been a Podunk. The Podunk sold land rights to English settlers of early Windsor in 1636, although there was no English settlement east of the river until the 1660s (Stiles 1891). The Mohegans, subservient to the Pequots until the Pequot War of 1637, claimed large areas of the Connecticut Valley and eastern highlands following the defeat of the Pequots. The Mohegans, under their leader Uncas, became the most important Indian political force in eastern Connecticut, using alliances with the English to subjugate or outmaneuver Indian opponents in the region. Uncas was involved in wars or serious quarrels

with nearly every Indian group in the region between the Pequot War and King Philip's War of 1676. Many of these disputes originated over control of fur trade resources and markets. During this period of conflict, the English settled affairs between the Mohegan and the Podunk by defining a boundary between them running through Bolton Notch in 1666. This line corresponds approximately to the drainage divide between the Connecticut and Thames River basins. The Mohegan may have retained a later claim to Podunk lands near the Connecticut River through Uncas' son Joshua, whose wife was willed these areas c1672 by her father, a Podunk or Sicaog sachem (Stiles 1891).

The Podunk evidently survived a 1633-34 smallpox epidemic which devastated native populations on the west side of the river around Hartford, and retained a viable military presence until about the time of King Philip's War. By the 1670s, the hunting and trapping grounds of southern New England were probably depleted as sources of Indian income, and those groups which had survived the disease and warfare of the early Contact period had begun trading land rights or money, goods, or political security. Although they resisted being drawn into tributary relations with the Pequot or Mohegan, the Podunk suffered occasional attacks from the Iroquoian Mohawks from New York, who also tried to control trade networks. The decline of the Podunk in the late 17<sup>th</sup> century is not well documented, but has been associated with Mohawk attacks and the choice by many Podunk to side with the unsuccessful Indian alliance against the English during King Philip's War. It is possible, though not documented, that the large Indian site in Enfield near Indian Run Road may in part represent a Podunk fort from this period. In 1678 and 1680, English settlers based primarily in Springfield purchased some land rights from the Podunk in present Enfield, but there is little published information on Contact-era Native American groups in this town. Small numbers of Podunk lived in East Windsor into the third quarter of the 18<sup>th</sup> century, and some were present in Manchester into the early 19<sup>th</sup> century (Stiles 1891; Speiss and Bidwell 1924; Bridge, ed. 1977: 5-7; Miller 1998).

## **2. Potential Issues in Project Area**

In environments such as the Project area, Native American subsurface resources typically appear in well-drained soils, often in proximity to wetlands and streams. Although gravel extraction and soil stripping have removed much of the Holocene soils in the Project area, the areas with wholly- or partially-intact well-drained soils left open the possibility of Native American archaeological sites, most likely representing short-term hunting and gathering episodes. Intact evidence of small seasonal Native American occupations might yield significant new information on Native American upland settlement in the central Connecticut lowland. In particular, the use of upland areas for small sites of seasonal, temporary, or specialized activities such as fishing, and the relation of such sites to larger, more permanent encampments along major streams, remain issues of regional archaeological importance.

### **B. Euroamerican Resources**

The Connecticut River was always an important travel corridor for early European settlers. Dutch explorer Adrien Block sailed upriver to the bottom of Enfield Rapids in 1614, the first serious obstacle for small sailing vessels, but no serious attempts at European settlement began on the river for almost another twenty years. The Dutch West India Company began a small trading post at later Hartford in 1623, completing a small fort a decade later on the eve of English settlement from the Plymouth and Massachusetts Bay colonies, which soon pushed out the Dutch. Families from Dorchester, Massachusetts began the permanent English settlement of Windsor in 1635-36, and edged out a group of fur traders from Plymouth Colony who had arrived in 1633 as well as small group arriving in 1635 with a patent from an English nobleman. Along with Hartford and Wethersfield, Windsor was one of Connecticut's first three English towns. Like many of the early river towns, Windsor began as a small fortified settlement near riparian meadows, in this instance at the mouth of the Farmington River, a major east-flowing Connecticut River tributary. Settlement quickly developed along a road parallel to Connecticut River meadows, and gradually dispersed along the Farmington's meadows as well. Alluvial meadows were the most immediately attractive cultivable areas for these English families, most of whom grew grain and managed small numbers of sheep and cattle. Windsor included present East Windsor and South Windsor, but Windsor's small population and the continued

occupation of the Podunk restricted nearly all English settlement east of the river until after King Philip's War. Prior to that conflict, English use of present East or South Windsor included the Bissell Ferry, a small number of homes along present Route 5, and the beginnings of that road as a link between Warehouse Point and Hartford. The Bissell ferry, authorized by the General Assembly in 1641 and operating by 1648, was among the earliest in the United States and ran until after the Revolution. It was located near the mouth of the Scantic River by at least c1667, but one source places the original ferry at a point on the river about opposite the Project area (Stiles 1892, I: 412, 497-8; 535-42; Potwin 1952; DeVito 1968: 12).

While the Connecticut river towns were establishing a new government in 1636, William Pynchon established a settlement upriver at Agawam, later Springfield, with a party from Roxbury, Massachusetts. This was the first European settlement on the river above Enfield Rapids, and the basis for the later founding of Suffield and Enfield. Pynchon had to use canoes or wagons for any movement of goods beyond the rapids, and soon set up transshipment facilities at Warehouse Point, on the east side of the river below the rapids. Massachusetts Bay authorized his monopoly on fur trade with the upper river basin's Native Americans in 1638, and, in 1648, gave Springfield rights on the east side of the river to a point just below Pynchon's warehouse (Winch 1886: 139). Windsor's prior claim to some of this land was one of many boundary issues requiring over a century of argument and adjustment, the most notable of which was Massachusetts' 1642 Woodward and Saffery survey which overextended the colonial border to the south by several miles.

William Pynchon's son John took over the family's extensive business and political responsibilities in 1652, and sought new outposts between Springfield, Warehouse Point, and the Connecticut river towns within the disputed area. Following land purchases from local Native Americans, he spearheaded the settlement of Suffield in 1670 and Enfield in 1679. Suffield was abandoned during King Philip's War, but quickly resettled in 1677. Windsor families moved east of the river after this conflict, establishing a separate parish in 1694 which included an area claimed by Enfield. Resolution of the boundary issues c1713-49 put Enfield and Suffield in Connecticut, and confirmed the limits between Suffield and Windsor, and Enfield and East Windsor; the latter community became a town in 1768.

The towns around Enfield Rapids agricultural economies and relatively dispersed settlement patterns typical of 18th-century Connecticut river towns, exporting produce and livestock to metropolitan and West Indian markets. East Windsor settlement after c1680 followed a model used in other river towns, with large 3-mile-long tracts granted perpendicular to the river to give families meadow, upland agricultural, and woodlot resources. In addition to livestock and produce, seasonal capture of shad and salmon at several points remained important well into the 19<sup>th</sup> century. By the 1730s, areas east of the river were more intensively settled as use of pine tar for naval stores increased. Grist, saw, and fulling mills appeared on local streams to process household grain, lumber, and woolen or flax cloth goods. Flax also supplied linseed processed at local oil mills, and cider mills flourished as well. Until the 1830s, Warehouse Point remained a small but important transshipment center until well into the 19th century, and the only nucleated river community along the Enfield Rapids. Boat and ship yards operated here and in Windsor, and to a less extent just above the rapids in Suffield. Warehouse Point was well-placed to manufacture and ship commodities for the coastal and West Indies trades. By the early 19th century, gin distillers operated on both sides of the river, part of a large Hartford county trade which capitalized on the river route and the lowland climate conducive to rye culture. East Windsor had six distilleries by 1819, the largest of which were at Warehouse Point. Local distilling lasted into the 1830s, but was damaged by an 1810 Hartford bridge, along with some other local trades such as shipbuilding which depended on river transportation (Pease and Niles 1819:65-6; Tarbox 1886; Winch 1886; Stiles 1892, I:5-4-5; McClure 1949:13).

Cereal crop distilling was one of several Federal Period strategies practiced by local landowner-merchants searching for new investments in the face of depleted natural resources, trade fluctuations, or fortuitous opportunities. In Suffield and East Windsor, small-scale manufacture of cigars from local leaf flourished for several decades, c1810-30, after the adoption by Samuel Viets of methods imparted by an unnamed itinerant Cuban cigar maker. Specialized production of Connecticut Valley cigar wrapper after 1830, for final cigar assembly elsewhere, ended the growth of local cigar plants. East Windsor remained generally rural, with the

villages of Scantic, Melrose, Broad Brook, and Windsorville focused on commercial tobacco production from c1810-1945, with scattered paper, cider, gin, and textile mills at various times. Brick yards flourished at times in the 19<sup>th</sup> century between the Scantic and Connecticut Rivers, using the glacial lake bottom clays to supply Hartford and other downriver Connecticut River urban centers via scow. The river and rapids gradually became less important to the river communities beginning c1850, as river traffic disappeared, bridges replaced ferries, flood control programs were introduced, and riverside industries closed. As tobacco land values declined, the town gradually transformed into a series of predominantly bedroom communities (Ramsey 1930; Potwin 1952; DeVito 1968; Raber and Malone 1991; Ransom and Andrews 1992).

There is almost no documented Euroamerican activity for the Project area. Less than a mile from the Project area, the village of Windsorville grew as noted above based on waterpower from Ketch Brook, which was used to operate three or four mill sites for sawmill, gristmill, and textile mill operations. All these mills were upstream of the Project area. Most of the Project area was formerly cultivated, but as noted above recent gravel extraction and soil stripping operations have removed some or all of the Project area soils except in a small wooded area on the south side (Figures 3-5; Warren and Gillet 1812; Woodford 1855; Baker and Tilden 1869; Fairchild Aerial Survey 1934; Robinson Aerial Surveys, Inc. 1951-52; Keystone Aerial Surveys, Inc. 1965; Ransom and Andrews 1992; Connecticut Department of Energy and Environmental Protection 2010).

#### **IV. SUBSURFACE INVESTIGATION RESULTS AND INTERPRETATION**

Background research indicated potential for Native American archaeological resources in any surviving post-glacial soil strata, even below stripped plowzones. Reconnaissance field methods included:

walkover survey to identify areas sensitive for archaeological sites beyond gravel pit limits, amplified in the proposed solar array area with soil auger tests which identified possible intact B horizon soils when compared to soil maps;

hand-excavated shovel tests at no more than 15-meter/50-foot intervals in archaeologically sensitive areas, and comparison of test results with published profiles of typical intact Enfield and Haven silt loam soils (Figure 2 ; U.S. Department of Agriculture 1962, 2003).

The testing interval has proven successful in intercepting at least some evidence of all but perhaps the very smallest of Native American or Euroamerican archaeological sites. Each hand-excavated 50-cm.<sup>2</sup> shovel test was excavated with a shovel and small hand tools to well-defined pre-cultural, late glacial material or to refusal in dense fill, with all excavated material run through 0.25-inch-mesh hardware cloth to isolate artifacts.

In the open Project area east of the gravel pit, 75 shovel tests were completed at locations shown on Figure 2, to depths of 15-100 cm. below surface. All but 2 of these tests indicated stripping of plowzone soils; 30 tests retained intact subsoils, with the remainder indicating deeper excavation and deposition of fill including asphalt fragments, charred wood, and uncharred wood. Very limited amounts of recent Euroamerican cultural material were recovered, most of it likely associated with stripping and filling. The berm running along the east side of the proposed solar array area was likely created by recent bulldozing of material. In the densely-wooded project area on the south side of the Project area, an additional 13 shovel tests were completed at locations shown on Figure 2, to depths of 28-95 cm. below surface. Many tests in the latter group were offset from the reconnaissance testing grid because of trees. Most tests south of the proposed solar array had intact Enfield silt loam soils, but virtually no cultural material. Test profiles are summarized below. Field investigations indicated no cultural resources eligible for the National Register of Historic Places appear to exist within proposed Project limits.

Tests NOW0, NOW30, S105W120

0 - 21/35 cm.: compact brown sandy loam, plastic fragments, terminating in red sand and gravel (Fill 1 above C horizon)

Tests NOW15, S15W15, S15W30, S15W120, S45W45, S45W120, S75W30, S120W105, S120W120, S135W120

0 - 4/17 cm.: brown silt loam, stones (B1 horizon)  
4/17 - 19/59 cm.: strong brown compact sandy loam, stones, some charcoal fragments (B2 horizon)  
19/59 - 21/64 cm.: red sand (C horizon)

Test NOW45

0 - 14 cm.: brown silt loam, small-medium gravel (Fill 1)  
14 - 62 cm.: compact strong brown sandy loam, small-medium stones, terminating in compact burnt wood and rocks (Fill 2)

Test NOW60

0 - 10 cm.: brown sandy loam (possible A horizon)  
10 - 20 cm.: yellow brown sandy loam, terminating in dense rock (possible B horizon)

Tests NOW120, S15W45, S15W75, S15W105, S30W75, S45W15, S60W45, S60W135

0 - 15/32 cm.: brown/light brown/yellow brown sandy loam, dense cobbles and gravel (partial B1 horizon)  
15/32 - 19/43 cm.: red brown compact sand, gravel, cobbles (C horizon)

Test S15W90

0 - 15 cm.: red brown sandy loam, rock, gravel (Fill 1 - re-deposited soils)  
15 - 18 cm.: red sand (Fill 2 - re-deposited C horizon)  
18 - 21 cm.: mottled compact red/brown sandy loam, boulders (Fill 3)

Tests S15W60, S30W45, S30W90, S45W30, S60W90, S75W60, S90W45, S105W135, S120W165

0 - 25/49 cm.: red brown/light yellow brown/strong brown compact fine sandy loam, sand, cobbles and gravel (Fill 1 - redeposited soils)  
25/49 - 38/62 cm.: red brown sand, gravel, arkose fragments (C horizon)

cultural material: S15W60, S30W90- asphalt fragments, burned wood (Fill 1)  
S30W45 - wood fragments (Fill 1); S60W90 - 1 bottle glass fragment, plastic (Fill 1)

Tests S15E0, S30W30, S75W45, S75W60

0 - 7/39 cm.: dark brown silt loam, gravel, charred wood (Fill 1 - redeposited soils)  
7/39 - 17/45 cm.: dark red brown silt loam (C horizon)

other cultural material: S75W60 - 1 black transfer ware fragment (Fill 1)

Test S30W15

0 - 30 cm.: dark yellow brown fine sandy loam, red sand, gravel, cobbles, charred wood (Fill 1)  
30 - 38 cm.: red fine sand, gravel, cobbles (C horizon)

Tests S30W30, S90W150, S120W150

- 0 - 10/36 cm.: dark brown sandy loam, small stones, dense cobbles and gravel (partial B2 horizon)  
10/36 - 15/38 cm.: red brown compact sand, gravel, cobbles (C horizon)

cultural material: S90W150- 1 bottle glass fragment, 1 cloth fragment, 1 plastic fragment (partial B2 horizon)

Tests S30W60, S45W60, S45W75, S60W60

- 0 - 11/19 cm.: brown sandy loam, some small stones (possible re-deposited A horizon)  
11/19 - 26/33 cm.: red/white/gray sand, pebbles, cobbles (C horizon)

Tests S30W105, S45W105, S60W30, S60W75, S6-0W120, S75W105, S75W120

- 0 - 10/27 cm.: strong brown sandy loam, dense cobbles and gravel (partial B2 horizon)  
10/27 - 24/70 cm.: red brown sand, rocks (C horizon)

cultural material: S45W105, S60W30, S75W105 - burned wood, coal, plastic fragments (B2 horizon)  
S75W120 - 1 window glass fragment, coal

Tests S45W90, S90W90

- 0 - 10 cm.: brown silt loam (Fill 1 - re-deposited A horizon)  
10 - 30 cm.: red sand, brown/yellow brown silt, gravel, rocks (Fill 2 - re-deposited soils)  
30 - 36/39 cm.: red sand (C horizon)

Test S60W105

- 0 - 30 cm.: strong brown compact sandy loam, rocks, terminating in compact rocks (Fill 1 - re-deposited B2 horizon)

Test 75W75

- 0 - 13 cm.: strong brown sandy loam (Fill 1 - re-deposited soils)  
13 - 38 cm.: burned wood, red arkose fragments (Fill 2) horizon)  
38 - 46 cm.: red sand (C horizon)

Test S75W90

- 0 - 20 cm.: dark yellow brown compact fine sandy loam, gravel, cobbles (Fill 1 - re-deposited B horizon)  
20 - 60 cm.: dark brown sandy loam, gravel, cobbles, (Fill 2 - re-deposited A horizon)  
60 - 66 cm.: brown fine sandy loam, gravel (Fill 3)

cultural material: asphalt fragments (Fill 2)

Tests S75W135, S90W105, S120W90

- 0 - 8/20 cm.: red brown/strong brown stony sandy loam (Fill 1- re-deposited soils)  
8/20 - 20/52 cm.: mottled brown/yellow brown sandy loam, gravel (Fill 2 - re-deposited soils)  
20/52 - 28/64 cm.: red sand, gravel, cobbles (C horizon)

Test S90W60

- 0 - 30 cm.: dark yellow brown fine sandy loam, coarse sand, gravel, cobbles, wood (Fill 1)  
30 - 40 cm.: brown fine sandy loam gravel, cobbles, wood (Fill 2)  
40 - 50 cm.: very dark brown sandy loam, organic matter (Fill 3)

Tests S90W75, S120W75

- 0 - 10/35 cm.: brown sandy loam, gravel, rocks (possible red-deposited A and B horizons)  
10/35 - 45/47 cm.: red sand (C horizon)

Test S90W120

- 0 - 31 cm.: brown sandy loam, red brown sand (Fill 1 - re-deposited B and C horizon soils)

Tests S90W135, S105W150

- 0 - 17/18 cm.: dark brown silt loam, pebbles, charred wood (Fill 1 - re-deposited soils)  
17/18 - 23/35 cm.: dark red sand (C horizon)

Test S105W75

- 0 - 72 cm.: mottled dark yellow brown/red fine sandy loam, sand, dense gravel, cobbles (Fill 1)  
72 - 93 cm.: mottled dark yellow brown/yellow brown sandy silt, loamy sand (Fill 2)  
73 - 100 cm.: red fine sand (C horizon)

cultural material: plastic fragments (Fill 1)

Tests S105W105, S135W105

- 0 - 10 cm.: strong brown sandy loam (partial B2 horizon)  
10 - 38/40 cm.: strong brown/yellow brown sandy loam, dense gravel (possible C horizon)

Tests S105W60, S120W60

- 0 - 53/55 cm.: mottled dark yellow brown/yellow brown/strong brown compact fine sandy loam, gravel, cobbles (Fill 1)

cultural material: S105W60 - asphalt fragments (Fill 1)

Test S105W90

- 0 - 10 cm.: brown silt loam (B1 horizon)  
10 - 43 cm.: strong brown/yellow brown compact silt loam, gravel (probable B2 horizon)

Test S120W135

- 0 - 12 cm.: strong brown silt loam, small stones (Fill 1)  
12 - 56 cm.: strong brown compact silt loam, small stones (Fill 2)  
56 - 63 cm.: mottled dark yellow brown silt loam, organic matter (possible Fill 3)  
63 - 79 cm.: strong brown compact silt loam (possible buried B2 horizon or Fill 4)

cultural material: plastic fragments (Fill 2)



Test S135W90

0 -	33 cm.:	strong brown silt loam, gravel, cobbles (B1 horizon)
33 -	46 cm.:	dark yellow brown silt loam, coarse sand, gravel (B2 horizon)
46 -	70 cm.:	layered red brown sand, gravel, sandy silt (C horizon)

Test S135W75

0 -	45 cm.:	mottled strong brown/yellow/red compact silt loam, cobbles (Fill 1 - re-deposited soils)
45 -	66 cm.:	light red silt and sand (probable C horizon)

Tests S30W120, S150W102.5, S150W120, S150W135, S150W150, S162.5W165, S165W90, S165W101.5, S165W117, S165W180

0 -	11/20 cm.:	dark brown/brown fine sandy loam/silt loam, gravel (Ap horizon)
11/20 -	16/66 cm.:	light brown/yellow brown fine sandy loam, gravel, cobbles (B1 horizon)
16/66 -	28/82 cm.:	light red brown fine/coarse sand, gravel, cobbles (C horizon)

cultural material: S150W150 - 1 solarized glass fragment, bailing rope fragment (B1 horizon)

Tests S137.5W131.5, S140W150

0 -	20/22 cm.:	dark brown fine sandy loam, gravel (Fill 1)
20/22 -	50/55 cm.:	dark yellow brown fine sandy loam, gravel, coal (Fill 2)
50/55 -	68/87 cm.:	yellow brown/light yellow brown compact fine sandy loam, gravel (B1 horizon)
68/87 -	79/95 cm.:	light red brown fine sand, gravel (C horizon)

Test S147.5W171

0 -	20 cm.:	brown sandy loam, pebbles (Ap horizon)
20 -	29 cm.:	light brown compact sandy loam, coarse sand, gravel (B1 horizon)
29 -	60 cm.:	light brown/yellow brown compact sandy loam, terminating in light red brown sand (probable B2 horizon on C horizon)

cultural material: 1 window glass fragment, 1 bottle glass fragment (Ap horizon)  
1 window glass fragment, 2 bottle glass fragments (probable B2 horizon)

## V. ASSESSMENT OF VISUAL EFFECTS

Available guidelines for SHPO assessment of visual effects on cultural resources appear in Section 16-50p(a)(4)(C) of PUESA, and in regulations of the federal Advisory Council on Historic Preservation (36CFR 800.5). Both sets of guidelines apply to properties listed, or eligible for listing, on the National Register of Historic Places. Based on Federal Power Commission guidelines to which it refers, PUESA mandates avoidance of National Register properties where possible, or, if avoidance is not possible, minimization of transmission structure visibility or effects on the character of National Register property environ. Advisory Council on Historic Preservation (ACHP) regulations, while not required in SHPO review of Projects subject to Connecticut Siting Council approval, provide *de facto* guidelines commonly used by SHPO. Criteria for findings of adverse effects on historic properties include change of the physical features within a property's setting which contribute to property significance, and introduction of visual elements which diminish the integrity of a property's significant features.

Previous studies by Raber Associates of visual effects on historic properties (e.g., Raber 2007), including consultations with SHPO, indicated that these guidelines provide no established or objective criteria for determining when a visual effect is adverse, leaving identification of adverse effects to the judgment of the reviewer. In general, visual effects will be diminished if new structures are as low as possible relative to existing structure heights, and/or if new structures are located further from historic properties. Most previous visual effects evaluations in Connecticut have addressed cell towers and electric transmission facilities, structures far taller than the 8-foot-high solar panels proposed for this Project. For electric transmission structures, SHPO has previously concurred that that adverse visual effects were highly unlikely at distances exceeding 0.25 mile.

Historic resource surveys and listings of properties on the National Register of Historic Places indicate no properties listed, eligible, or potentially eligible for the National Register are located within approximately 1.5 miles of the Project area (Ransom and Andrews 1992). Based on the criteria noted above, there appear to be no potential adverse visual effects from proposed construction.

## **VI. CONCLUSIONS AND RECOMMENDATIONS**

The proposed Norcap South Solar Array will have no effects on any cultural resources listed, eligible, or potentially eligible for the national or state registers of historic places. No further investigations, or protective measures to address indirect visual effects, are recommended.

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## PERSONAL COMMUNICATIONS

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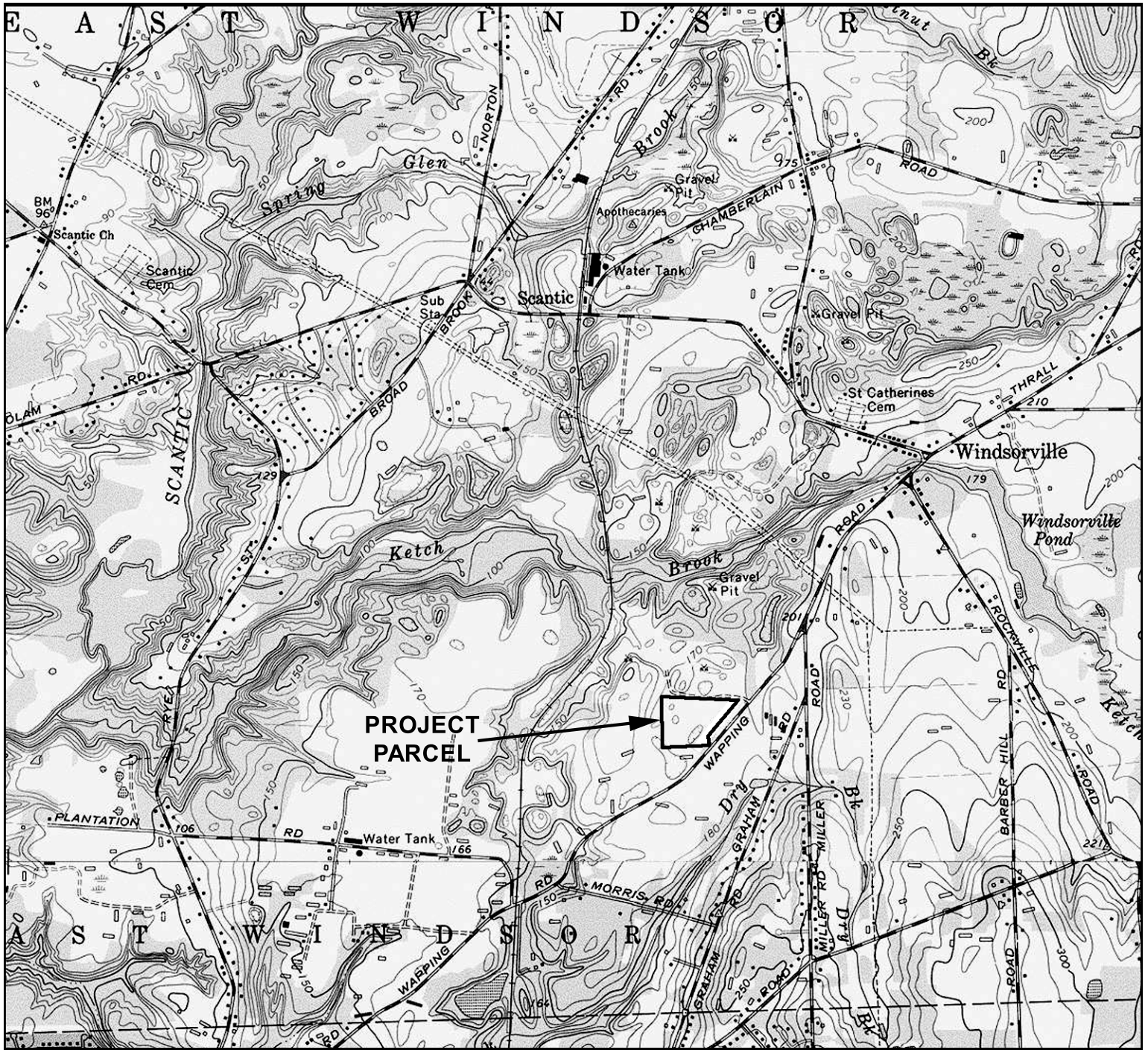
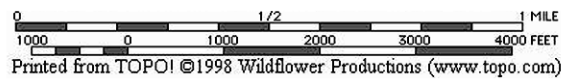


Figure 1. LOCATION OF NORCAP SOUTH PROJECT ON BROAD BROOK, CONN. U.S.G.S. 7.5-MINUTE QUADRANGLE









**Figure 3. EARLY 2016 PROJECT AREA CONDITIONS**  
base image: Google Maps 2016



March 13, 2017

Dr. Michael S. Raber  
81 Dayton Road  
PO Box 46  
South Glastonbury, CT 06073

Subject: Cultural Resources Investigations  
Norcap South Solar Development  
Wapping Road  
East Windsor, Connecticut

Dear Dr. Raber:

The State Historic Preservation Office (SHPO) has reviewed the Cultural Resources Investigations report prepared by Raber Associates (Raber) for the referenced project. SHPO understands that the proposed ground-mounted solar facility will consist of approximately 9.8 acres within an 11.2 acre parcel located along the western edge of Wapping Road. The background research and pedestrian survey identified evidence of substantial prior subsurface disturbances related to gravel mining in the western half of the project area. As a result, subsurface testing was completed only within the eastern half of the project parcel. During the survey, 75 shovel tests were excavated to examine areas of potentially intact soils. Subsurface testing confirmed the extent of soil disturbances in approximately half of the completed shovel tests. Despite the presence of intact soil horizons, no significant archeological deposits were identified. The investigation meets the minimum standards set forth in the *Environmental Review Primer for Connecticut's Archaeological Resources*. SHPO concurs with Raber that no additional archeological investigation of the project area is warranted.

A consideration of potential visual effects also was considered as part of the investigation. SHPO concurs with Raber that the proposed project is not likely to cause visual impacts to historic properties. Based on the information provided to our office, it is SHPO's opinion that no historic properties will be affected by the proposed Norcap South Solar Development.

This office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with 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)

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