



**US Army Corps
of Engineers®**
New England District
696 Virginia Road
Concord, MA 01742-2751

PUBLIC NOTICE

Comment Period Begins: July 09, 2019
Comment Period Ends: August 08, 2019
File Number: NAE-2018-00556
In Reply Refer To: Cori M. Rose
Phone: (978) 318-8306
E-mail: cori.m.rose@usace.army.mil

The District Engineer has received a permit application to conduct work in waters of the United States from **WHEELBRATOR PUTNAM INCORPORATED, 200 Technology Park Drive, Putnam, Connecticut 06260**. This work is proposed in inland wetlands adjacent to an unnamed tributary of the Quinebaug River at 344 River Road, Putnam, Connecticut. The site coordinates are: Latitude 41.8772° North and Longitude -71.9095° West.

The proposed work will involve discharge of fill in inland forested and shrub wetlands over a total of 7.23 acres and 1,476 linear feet of intermittent stream for establishment of a new ash residue geosynthetic baseliner containment system to expand the existing Putnam ash residue landfill which has been in operation since 1999 and is estimated to reach capacity in 2023. The proposed landfill expansion will occur in a total of five (5) construction phases over an estimated 15 to 20 year timeframe and the activity is expected to effectively double the capacity of the landfill baseliner's existing footprint from that of 60 acres to 128 acres. In addition to the baseliner landfill footprint itself, this estimated expansion also includes an additional 27.2 acres of perimeter disturbance for exterior grading, stormwater basins, access roads and appurtenant facilities.

The expanded facility shall be used for the disposal, storage and management of approximately 600,000 tons of ash residue from Resource Recovery Facility and coal-fired power generation plants within the newly created ash residue baseliner containment system and the facility is expected to serve over 1 million households, 100 Connecticut communities and 80 percent of the state's population. During evaluation the applicant considered a range of options from closing the facility and redirecting ash to other New England states to establishment of a new landfill at another New England or east coast location.

Although the project site is adjacent to the Quinebaug River, the proposed work will not occur within the 100-year flood Zone or the floodway as calculated by the Federal Emergency Management Agency, Flood Insurance Rate Maps for the Town of Putnam (Maps 090194 0004B and 090194 0010B, 1988).

The monofill landfill baseline system is modelled and designed with an impermeable base layer and a leachate collection and removal system to meet State of Connecticut regulation for a 25-year, 24-hour storm event.

The proposed stormwater detention systems, emergency spillways and associated conveyance features for the proposed project have been sized up to, and including, the 100-year, 24-hour storm event and to meet CT Department of Energy and Environmental Management criteria. The sediment forebays will provide pretreatment and remove coarse solids and floatables from stormwater. Diversion swales are proposed at 30-foot vertical intervals to be constructed on the side slope of the land fill in order to intercept and slow stormwater runoff.

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At the end of each phased expansion, the capped landfill cells will be maintained in a vegetated state.

The purpose of the project is to expand the only existing operational ash residue landfill in the State of Connecticut to meet state needs and capacity for the next 25 years.

The work is shown on the enclosed plans entitled "DESIGN DRAWINGS PHASES 7 THROUGH 11 PUTNAM ASH LANDFILL, PUTNAM, CONNECTICUT," on 55 sheets, and dated "FEBRUARY 28, 2019."

Compensatory wetland mitigation proposed to offset the loss of wetland and waterway functions includes approximately 7.30 acres of wetland creation, 0.96 acre of wetland rehabilitation involving invasive plant eradication and management and purchase of mitigation credits from the Audubon Connecticut In-Lieu Fee program.

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
- Section 404 of the Clean Water Act
- Section 103 of the Marine Protection, Research and Sanctuaries Act.
- Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408)

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers, New England District (Corps), is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. The Corps will consider all comments received to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

NATIONAL HISTORIC PRESERVATION ACT

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

The Corps has reviewed the application for the potential impact on Federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act as amended. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect a listed species or their critical habitat. We are coordinating with the National Marine Fisheries Service and/or U.S. Fish and Wildlife Service on listed species under their jurisdiction and the ESA consultation will be concluded prior to the final decision.

The following authorizations have been applied for, or have been, or will be obtained:

- Permit, license or assent from State.
- Permit from local wetland agency or conservation commission.
- Water Quality Certification in accordance with Section 401 of the Clean Water Act.


COMMENTS

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. Comments should be submitted in writing by the above date. If you have any questions, please contact Ms. Cori M. Rose at (978) 318-8306, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.


Kevin R. Kotelly, P.E.
Chief, Permits and Enforcement Branch
Regulatory Division

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If you would prefer not to continue receiving Public Notices by email, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____

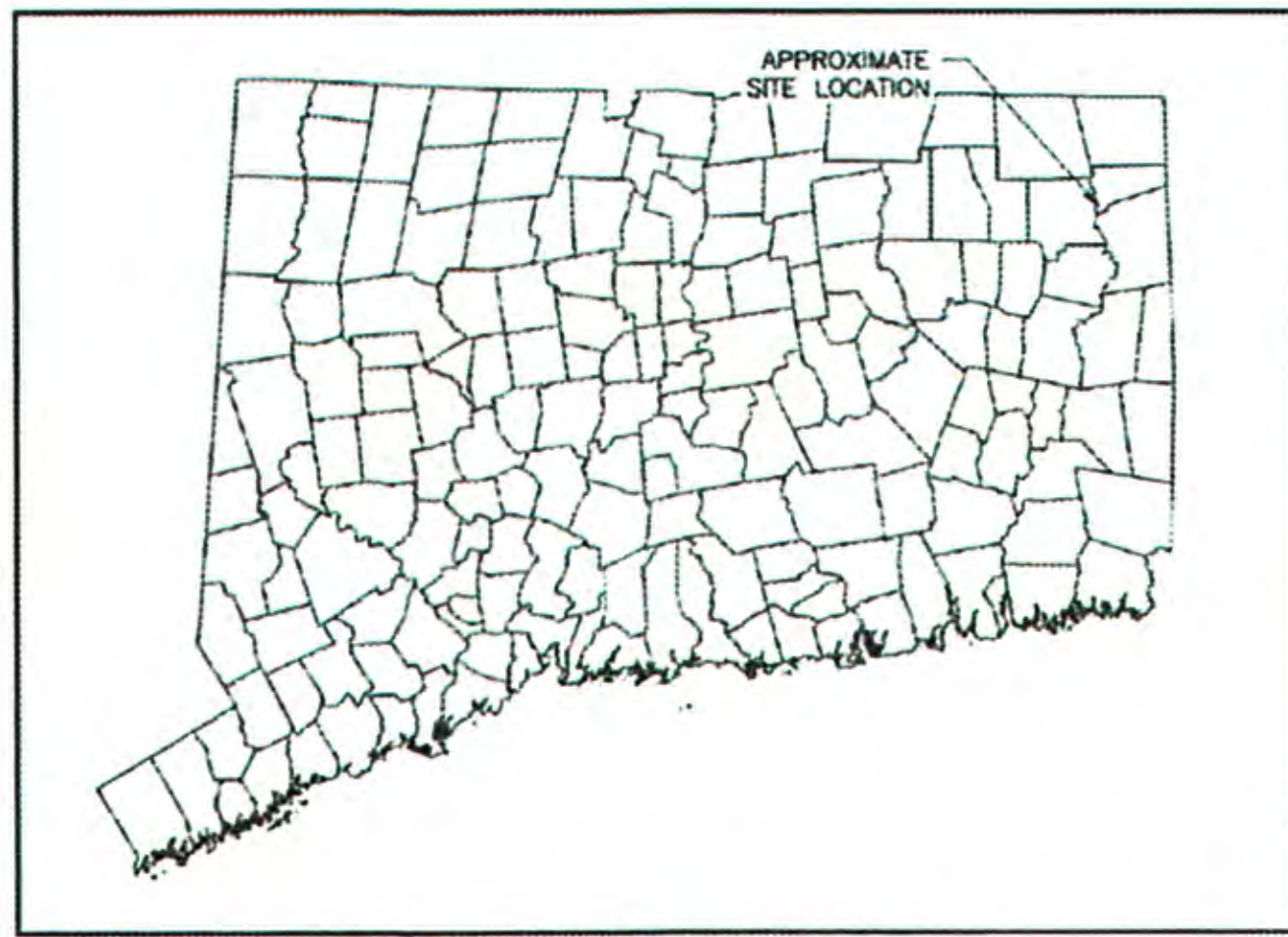
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PHONE: _____

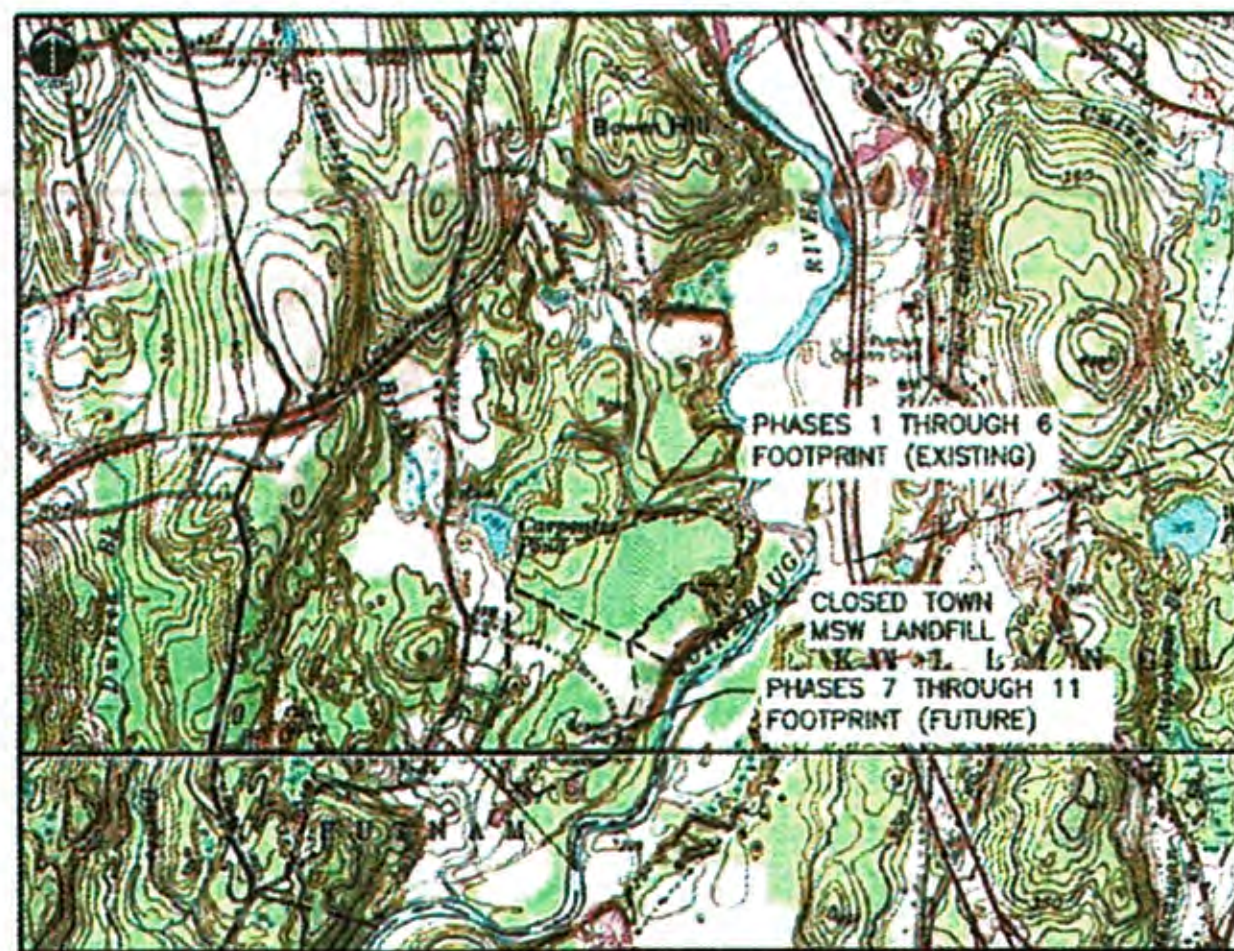
DESIGN DRAWINGS PHASES 7 THROUGH 11 PUTNAM ASH RESIDUE LANDFILL

PUTNAM, CONNECTICUT

PREPARED FOR:



LOCATION OF SITE IN CONNECTICUT



SITE LOCUS
SCALE: 1" = 2000'

SOURCE: USGS
PUTNAM QUADRANGLE
DANIELSON QUADRANGLE

DRAWING INDEX:

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H1	UNITED STATES GEOLOGICAL SURVEY QUADRANGLE MAP	E2	PHASING LAYOUT
H2	SITE MAP	E3	PRIMARY LEACHATE COLLECTION SYSTEM
H3	WATER RESOURCES MAP	E4	PHASE 7 SUBGRADE
H4	BEDROCK GEOLOGY MAP	E5	PHASE 7 SECONDARY LINER
H5	SURFICIAL MATERIALS MAP	E6	PHASE 7 PRIMARY LINER/ PHASE 8 SUBGRADE
H6	DETAILED SITE MAP	E7	PHASE 7 INTERMEDIATE GRADES/ PHASE 8 SECONDARY LINER
H7	CROSS SECTIONS A-A' AND B-B'	E8	PHASE 8 PRIMARY LINER/ PHASE 9 SUBGRADE
H8	CROSS SECTION C-C'	E9	PHASE 8 INTERMEDIATE GRADES/ PHASE 9 SECONDARY LINER
H9	CROSS SECTION D-D'	E10	PHASE 9 PRIMARY LINER/ PHASE 10 SUBGRADE
H10	SILT AND SILTY FINE SAND ISOPACH MAP	E11	PHASE 9 INTERMEDIATE GRADES/ PHASE 10 SECONDARY LINER
H11	SHALLOW SAND AQUIFER POTENTIOMETRIC SURFACE - OCTOBER 2017	E12	PHASE 10 PRIMARY LINER/ PHASE 11 SUBGRADE
H12	SHALLOW SAND AQUIFER POTENTIOMETRIC SURFACE (WITH FLOW NET) - MAY 2018	E13	PHASE 10 INTERMEDIATE GRADES/ PHASE 11 SECONDARY LINER
H13	DEEP SAND AQUIFER POTENTIOMETRIC SURFACE - OCTOBER 2017	E14	PHASE 11 PRIMARY LINER
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H15	CALCIUM CONCENTRATION ISOPLETHS - SHALLOW SAND AQUIFER - JULY 2017	E16	FINAL GRADING PLAN
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H17	TOTAL DISSOLVED SOLIDS CONCENTRATION ISOPLETHS - SHALLOW SAND AQUIFER - JULY 2017	E18	STORMWATER MANAGEMENT PLAN INSETS
H18	CALCIUM CONCENTRATION ISOPLETHS - SHALLOW SAND AQUIFER - SEPTEMBER 2017	E19	CROSS SECTIONS
H19	CHLORIDE CONCENTRATION ISOPLETHS - SHALLOW SAND AQUIFER - SEPTEMBER 2017	E20	BASELINER SYSTEM DETAILS
H20	TOTAL DISSOLVED SOLIDS CONCENTRATION ISOPLETHS - SHALLOW SAND AQUIFER - SEPTEMBER 2017	E21	LEACHATE COLLECTION SYSTEM DETAILS (SHEET 1 OF 2)
H21	CALCIUM CONCENTRATION ISOPLETHS - DEEP SAND AQUIFER - JULY 2017	E22	LEACHATE COLLECTION SYSTEM DETAILS (SHEET 2 OF 2)
H22	CHLORIDE CONCENTRATION ISOPLETHS - DEEP SAND AQUIFER - JULY 2017	E23	LEACHATE SUMP DETAILS (SHEET 1 OF 3)
H23	TOTAL DISSOLVED SOLIDS CONCENTRATION ISOPLETHS - DEEP SAND AQUIFER - JULY 2017	E24	LEACHATE SUMP DETAILS (SHEET 2 OF 3)
H24	CALCIUM CONCENTRATION ISOPLETHS - DEEP SAND AQUIFER - SEPTEMBER 2017	E25	LEACHATE SUMP DETAILS (SHEET 3 OF 3)
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H26	TOTAL DISSOLVED SOLIDS CONCENTRATION ISOPLETHS - DEEP SAND AQUIFER - SEPTEMBER 2017	E27	STORMWATER MANAGEMENT SYSTEM DETAILS (SHEET 2 OF 2)
		E28	FINAL COVER DETAILS

FEBRUARY 28, 2019

NO.	DATE	DESCRIPTION

Brown and Caldwell
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www.browncaldwell.com

CEE
Civil & Environmental Consultants, Inc.
31 Bellows Road - Rayham, MA 02767
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www.ceeinc.com

DESIGN DRAWINGS: PHASES 7 - 11
PUTNAM ASH RESIDUE LANDFILL
WHEELABRATOR PUTNAM INC.
PUTNAM, CONNECTICUT

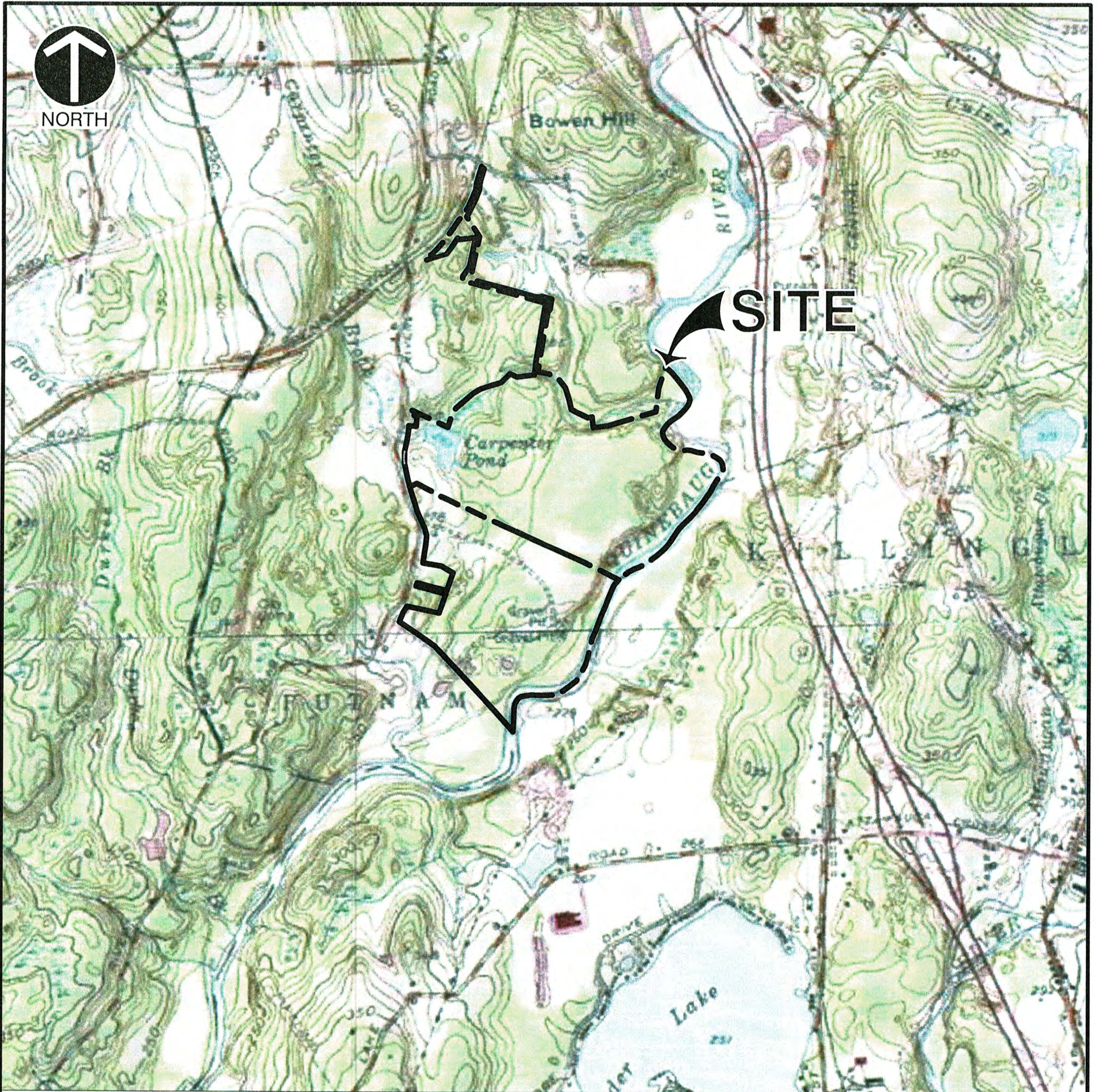
TITLE SHEET	
DATE: FEBRUARY 28, 2019	DRAWN BY: CCB
DWG. SCALE: AS SHOWN	CHECKED BY: BTY
PROJECT NO: 164-234	APPROVED BY: AJK



DRAWING NO. 00
SHEET 1 OF 55



NORTH



REFERENCE

1. ORTHOGRAPHIC AERIAL IMAGERY, MAPS AND PARCELS ARE BASED ON GIS DATA PROVIDED BY THE UNIVERSITY OF CONNECTICUT MAP AND GEOGRAPHIC INFORMATION CENTER (UNCONN GIS DATA), STATE OF CONNECTICUT EXECUTIVE OFFICE OR TECHNOLOGY AND SECURITY SERVICES.

SCALE IN FEET



Civil & Environmental Consultants, Inc.

www.cecinc.com

PUTNAM ASH RESIDUE LANDFILL
SOUTHERN EXPANSION
WHEELABRATOR PUTNAM INC.
PUTNAM, CONNECTICUT

SITE LOCUS

DRAWN BY:

CCR

CHECKED BY:

APPROVED BY:

FIGURE NO.:

DATE:

JULY 2018

DWG SCALE:

1"=2000'

PROJECT NO:

164-234

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C:\Users\croberts\Desktop\164234-SP01-Aerial_Site Maps.dwg\FIGURE NO.1} LS:(7/25/2018 - croberts) - LP: 7/25/2018 2:51 PM

