A. Concrete inspection and testing shall be performed by the Engineer or by an inspection laboratory, designated by the Engineer, engaged and paid for by the Owner. Testing equipment shall be supplied by the laboratory, and the preparation of samples and all testing shall be performed by the laboratory personnel. Full assistance and cooperation, concrete for samples, and such auxiliary personnel and equipment as needed shall be provided by the Contractor.

B. At least 4 standard compression test cylinders shall be made and tested and 1 slump test from each day's placement of concrete. A minimum of four compression test cylinders shall be made and tested for each 100 cubic yards of each type and design strength of concrete placed. One cylinder shall be tested at 7 days, and two at 28 days. The fourth cylinder from each set shall be kept until the 28 day test report on the second and third cylinders in the same set has been received. If the average compressive strength of the two 28 day cylinders does not achieve the required level, the Engineer may elect to test the fourth cylinder immediately or test it after 56 days. If job experience indicates additional cylinder tests or other tests are required for proper control or determination of concrete quality, such tests shall be made.

C. The Engineer shall have the right to reject concrete represented by low strength tests. Rejected concrete shall be promptly removed and replaced with concrete conforming to the specification. The decision of the Engineer as to whether substandard concrete is to be accepted or rejected shall be final.

END OF SECTION

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SECTION 31 00 00

EARTHWORK

PART 1 - GENERAL

1.01 WORK INCLUDED:

A. The Contractor shall furnish all labor, materials, equipment and incidentals necessary to make excavations of normal depth in earth for the remedial activities, shall backfill to match surrounding grades and compact such excavations to the extent necessary, and perform miscellaneous grading as required to complete the work specified herein.

1.02 RELATED WORK:

A. Section 01 11 00 – CONTROL OF WORK AND MATERIALS
B. Section 01 57 19 – ENVIRONMENTAL PROTECTION
C. Section 02 61 00.16 – HANDLING, TRANSPORTATION, REUSE AND DISPOSAL OF EXCAVATED MATERIAL

1.03 REFERENCES:

American Society for Testing and Materials (ASTM)

| | | |
|---|---|---|
| ASTM | C131 | Test Method for Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine. |
| ASTM | C136 | Method for Sieve Analysis of Fine and Coarse Aggregates. |
| ASTM | C330 | Specification for Lightweight Aggregate for Structural Concrete. |
| ASTM | D1556 | Test Method for Density of Soil in Place by the Sand Cone Method. |
| ASTM | D1557 | Test Methods for Moisture-density Relations of Soils and Soil Aggregate Mixtures Using Ten-pound (10 Lb.) Hammer and Eighteen-inch (18") Drop. |
| ASTM | D2922 | Test Methods for Density of Soil and Soil-aggregate in Place by Nuclear Methods (Shallow Depth). |

Connecticut Department of Transportation Standard Specification for Highways and Bridges (Form 817)

State of Connecticut Department of Environmental Protection Remediation Standard Regulations 22a-133k-1 et seq. and related guidance.

1.04 SUBMITTALS:

A. Samples of all materials proposed for the project shall be submitted to the Engineer for review. Size of the samples shall be as approved by the Engineer.

1.05 PROTECTION OF EXISTING PROPERTY:

A. The work shall be executed in such manner as to prevent any damage to facilities at the Site and adjacent property and existing improvements, such as but not limited to existing above and below grade utility services scheduled to remain, streets, curbs, paving, service utility lines, structures, monuments, benchmarks, and other public or private property. Protect existing improvements from damage caused by settlement, lateral movements, undermining, washout and other hazards created by earthwork operations.

B. In case of any damage or injury caused in the performance of the work, the Contractor shall, at its own expense, make good such damage or injury to the satisfaction of, and without cost to, the Owner. Damaged items shall be repaired or replaced to at least the condition that existed at the start of operations. The Contractor shall replace, at its own cost, existing benchmarks, observation wells, monuments, and other reference points, which are disturbed or destroyed.

C. Buried drainage structures and pipes, which are subject to damage from construction equipment shall be clearly marked to indicate the hazard. Markers shall indicate limits of danger areas, by means which will be clearly visible to operators of trucks and other construction equipment and shall be maintained at all times until completion of project.

1.06 DRAINAGE:

A. The Contractor shall provide, at its own expense, adequate drainage facilities to complete all work items in an acceptable manner. Drainage shall be done in a manner so that runoff or streamflow will not adversely affect construction procedures or cause excessive disturbance of underlying natural ground or abutting properties.

1.07 FROST PROTECTION AND SNOW REMOVAL:

A. The Contractor shall, at its own expense, keep earthwork operations clear and free of accumulations of snow as required to carry out the work.

B. The Contractor shall protect the subgrade beneath new structures and pipes from frost penetration when freezing temperatures are expected.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. CONTROLLED FILL

Controlled fill shall be composed of sound tough, durable particles of crushed or uncrushed gravel, free from soft, thin elongated or laminated pieces, and other deleterious substances. Controlled fill shall be free of silt and clay balls.

Material shall meet this gradation:

| Sieve Designation | Percent by Weight Passing Square Mesh Sieve |
|---|---|
| 3 ½ inch | 100 |
| 3/4 inch | 50-100 |
| No. 4 | 25-80 |
| No. 200 | 0-15 |

B. CRUSHED STONE

Crushed Stone shall satisfy the requirements listed in CTDOT Specification Section M02.01.1 (Broken or crushed stone) unless otherwise specified or directed. Crushed Stone separated from the surrounding soil with Filter Fabric as specified herein may be used as Structural Fill where approved by the Engineer

C. RIPRAP

Riprap shall satisfy the requirements listed in CTDOT Specification Section M.12.02.1 (Standard Riprap) unless otherwise specified or directed.

D. Utility trenches and test pits shall be backfilled with excavated material in the same general area it was excavated.

PART 3 - EXECUTION

3.01 DISTURBANCE OF EXCAVATED AND FILLED AREAS DURING CONSTRUCTION:

A. The Contractor shall take the necessary steps to avoid disturbance of subgrade during excavation and filling operations, including restricting the use of certain types of construction equipment and their movement over sensitive or unstable materials, dewatering and other acceptable control measures.

B. All disturbed/backfilled areas within the streambed and drainage channel shall have Controlled Fill to within 4-inches of existing grades. The final 4-inches shall be backfilled with Crushed Stone to match existing grades and prevent ponding in the stream.

C. Upon project completion, constructed access roads shall be removed as shown on Sheet C004 of the Contract Documents. Contractor shall install 6-inches of Loam and Seed to match surrounding grade.

3.02 EXCAVATION:

A. GENERAL:

1. The Contractor shall perform all work of any nature and description required to accomplish the work as shown on the Drawings and as specified.

2. Excavations, unless otherwise required by the Engineer, shall be carried only to the depths and limits required for remediation work. If unauthorized excavation is carried out, it shall be backfilled with gravel borrow and compacted at the Contractor's expense as specified below, except as otherwise indicated. Excavations shall be kept in dry and good conditions at all times, and all voids shall be filled to the satisfaction of the Engineer.

3. The Contractor shall follow a construction procedure, which permits visual identification of stable natural ground.

4. The Contractor shall exercise great care to not damage existing structures or utilities scheduled to remain. The use and movement of construction equipment over buried utilities/structures and proximate on-site permanent/temporary structures is at the Contractor’s own risk. Damaged caused by the Contractor’s operations shall be repaired immediate at no additional cost to the Owner.

5. For excavations adjacent or above existing utilities, the Contractor shall utilize suitable light excavation methods (hand shovels, vacuum excavation, etc.) to expose subsurface utilities or structures to the remain.

3.03 BACKFILL PLACEMENT AND COMPACTION:

A. GENERAL:

1. Prior to backfilling, the Contractor shall compact the exposed natural subgrade. The degree of compaction is expressed as a percentage of the maximum dry density of the material at optimum moisture content as determined by ASTM Test D 1557, Method C. The minimum degree of compaction for fill placed shall be as follows:

   - Fill shall be placed in 6-inch lifts and compacted to 95% ASTM D-1557 maximum Density unless otherwise specified

2. The Engineer reserves the right to test backfill for conformance to the specifications and the Contractor shall assist as required to obtain the information. Compaction testing will be performed by the Contractor or by an inspection laboratory designated by the Contractor, reviewed and approved by Engineer/Owner. If test results indicate work does not conform to specification requirements, the Contractor shall remove or correct the defective Work by recompacting where appropriate or replacing as necessary and approved by the Engineer, to bring the work into compliance, at no additional cost to the Owner.

3. Where horizontal layers meet a rising slope, the Contractor shall key each layer by benching into the slope.

4. The Contractor shall backfill excavated areas to match surrounding grade and provide positive runoff from backfilled areas.

3.04 DISPOSAL OF SURPLUS MATERIALS:

A. No excavated material shall be removed from the Site of the work or disposed of by the Contractor unless approved by the Engineer.

3.05 RESTORATION

A. The Contractor is responsible for restoring disturbed area from work of this contract, including restoring all remediation areas, access roads and existing driveway/pavement damaged during this project.

B. Restoration shall include backfilling remedial related excavations in the stream and drainage channel to match surrounding grade. Excavations shall be backfilled to within 4-inches of final grade using Controlled Fill. The drainage channel shall be backfilled to grades that create positive runoff towards the stream. The contractor shall backfill as close to existing grade as possible to prevent ponding. Controlled Fill materials shall be covered with a 4-inch layer of crushed stone.

END OF SECTION

SECTION 31 23 19

DEWATERING

PART 1 - GENERAL

1.01 WORK INCLUDED:

This section specifies designing, furnishing, installing, maintaining, operating and removing temporary dewatering systems as required to control water flows; capturing and disposing of free draining liquids from excavated material; constructing, maintaining, observing and, except where indicated or required to remain in place, removing of equipment and instrumentation for control of the systems.

1.02 RELATED WORK:

A. Section 00 31 43 - PERMITS

B. Section 01 57 19 - ENVIRONMENTAL PROTECTION

C. Section 02 61 00.16 – HANDLING, TRANSPORTATION, REUSE, AND DISPOSAL OF EXCAVATED MATERIAL

D. Section 31 00 00 -EARTHWORK

1.03 SYSTEM DESCRIPTION:

A. Dewatering includes (1) diverting the stream flow, (2) collecting, removing and disposing of free draining liquids from excavated material, and (3) diverting existing stormwater discharges to a location downstream from designated excavation areas.

1.04 QUALITY ASSURANCE:

A. The Contractor is responsible for the adequacy of the dewatering systems including design and storage capacity for free draining liquids.

B. The dewatering systems shall be capable of effectively diverting stream and stormwater flow so that all remediation area bottoms are firm and dry, and that said systems effectively capture, store and allow for the disposal of free draining liquids from excavated materials.

C. The dewatering systems shall be capable of maintaining a dry and stable subgrade until soil removal is complete and the Engineer gives permission to backfill, after results from confirmatory samples are available.

D. The dewatering systems shall be designed so that diverting stream and stormwater flow does not adversely affect downstream conditions. Contractor shall make all efforts necessary to prevent ponding, scouring, or unplanned diversion of the stream.

1.05 SUBMITTALS:

A. In accordance with Section 01 33 23, Contractor shall submit a plan indicating how it intends to prevent free liquids from being transported with PCB Remediation Waste soil. The plan shall include proposed means and methods for stream and stormwater diversion and procedures for removing free liquids from stream and drainage channel sediment that has been removed and containerized.

PART 2 - PRODUCTS: NOT APPLICABLE

PART 3 - EXECUTION

3.01 DEWATERING OPERATIONS:

A. All water diverted from the stream or stormwater discharges shall be recharged downstream in a manner that will not result in undue interference with other work or damage to adjacent properties, pavements and other surfaces, buildings, structures and utilities. Suitable temporary pipes, flumes, or channels that can adequately handle flow created from the 100-year storm shall be provided.

B. All free draining liquids collected from the removal of PCB Remediation Waste sediment shall be disposed of in accordance with all relevant local, state, and federal regulations.

B. Dewatering facilities shall be located where they will not interfere with utilities or normal site operations.

C. Dewatering procedures to be used shall be as described below:

1. A sandbag dam shall be constructed through the centerline of the stream to a height approximately 3-feet above the current water level, or high enough to prevent flowing water during a storm from overtopping the dam. Dam shall be constructed so that streamflow is diverted to one-half of the stream, leaving the other half of the stream with no active flow. Contractor shall adjust dam during excavation to prevent flow from undermining the integrity and effectiveness of the dam. Dam shall only be adjusted to divert flow from other-half of stream once Engineer gives approval.

2. Stormwater flows from three discharges as shown on Sheet C002 and D001 of the Contract Documents shall be diverted to a point downstream of the furthest south remediation area. Stormwater flowing from these discharges is not to enter the drainage channel or any point upstream of planned remediation areas. Contractor shall provide all pipes, channels, fittings, and other required materials to adequately convey flow resulting from a 100-year to the stormwater discharge plunge pool downstream of the furthest south remediation area.

3. Contractor shall furnish all materials, tools, and labor required to remove excess free liquids from containerized PCB Remediation Waste sediment. Excess free liquids resulting from the removal of sediment from the streambed or drainage channel shall be segregated and containerized for transport and disposal. Contractor shall not use drying agents or tackifiers on the containerized soil without permission from the Engineer or Owner. Soil shall not be transported for disposal without permission from the Engineer that sufficient excess free liquids have been removed from the soil.

D. The Contractor shall be responsible for repair of any damage caused by its dewatering operations, at no cost to the Owner.

END OF SECTION

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SECTION 32 91 19

LOAMING & SEEDING

PART 1 - GENERAL

1.01 WORK INCLUDED:

A. This Section includes furnishing all labor, materials, equipment, seed and incidental materials necessary to accomplish all loaming, grass and plant seeding and related work, complete in place, maintained, and accepted, in accordance with the Contact Drawings and Specifications. All grassed areas disturbed by the Contractor's operations shall be repaired as herein specified.

B. The Contractor shall bear the responsibility and cost of furnishing and applying water or any other substances, as necessary to ensure the sustainability of grass seeded areas, as part of the work of this contract.

C. Contraction shall backfill all disturbed areas as shown on Sheet C004 of the Contract Drawings. Excavated areas in the streambed and drainage channel shall be backfilled with Controlled Fill to within 4-inches of existing grade. Contractor shall install 4-inches of Crushed stone to match surrounding grades to prevent ponding.

D. Upon project completion, constructed access roads shall be removed as shown on Sheet C004 of the Contract Documents. Contractor shall install 6-inches of Loam and Seed to match surrounding grade.

1.02 RELATED WORK:

A. Section 31 00 00 - EARTHWORK

1.03 SUBMITTALS:

In accordance with requirements of general specifications, the Contractor shall submit the following to the Engineer for review and approval:

A. For a particular source of loam, the Engineer may require the Contractor to send approximately 10 pounds of loam to an approved testing laboratory and have the following tests conducted:

1. Organic concentration

2. pH

3. Nitrogen concentration

4. Phosphorous concentration

These tests shall be at the Contractor's expense. Test results, with soil conditioning and fertilizing recommendations, shall be forwarded to the Engineer.

Letters from supplier or source of loam certifying clean and from non-impacted sources.

B. Six copies of information for seed mixes including the following:

1. Name and address of the seed supplier.

2. Source of origin and dates of harvest for each of the various types of seed

3. Certification of seed mix composition and proportion, indicating named seed varieties by percent, percent germination, purity, and percent crop seed, percent inert matter, and percent weed seed content.

4. Estimated number of seeds per pound of each type of seed in the mix.

5. Ingredients that comprise the hydroseed mix.

C. Six copies of information detailing proposed limestone, fertilizers, insecticides, herbicides, fungicides, mulch materials, hydroseeding materials (as required), and slope protection material (as required) to be applied to seeded areas.

D. Six copies of watering, fertilizing and maintenance schedule.

E. Six copies of marked up prints indicating the square footage of all proposed seeded areas with quantities of various soil additives and amendments, and quantities of seed for each area prior to beginning work.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. LOAM BORROW:

1. Loam shall be a natural, fertile, friable soil, typical of productive soils in the vicinity, obtained from naturally well-drained areas, neither excessively acid nor alkaline, and containing no substances harmful to grass growth. Loam shall not be delivered to the site in frozen or muddy condition and shall be reasonably free of stumps, roots, heavy or stiff clay, stones larger than 1-inch in diameter, lumps, coarse sand, noxious weeds, sticks, brush or other litter.

2. The loam shall contain not less than 4 percent nor more than 20 percent organic matter as determined by the loss of weight by ignition of oven-dried samples. Test samples shall be oven-dried to a constant weight at a temperature of 230 degrees F.

3. All imported materials shall be certified clean; any impacted materials brought on-Site shall be removed and replaced at no cost to the Owner.

B. LIMESTONE:

Lime shall be an approved agricultural limestone containing at least 50 percent total oxides (calcium oxide and magnesium oxide). The material will be ground such that 50 percent of the material will pass through a No. 100 mesh sieve and 98 percent will pass a No. 2 mesh sieve. Lime shall be uniform in composition, dry and free-flowing and shall be delivered to the site in the original sealed containers, each bearing the manufacturer's guaranteed analysis.

C. FERTILIZER:

1. Fertilizer shall be a complete, standard commercial fertilizer, homogenous and uniform in composition, dry and free-flowing, and shall be delivered to the site in the manufacturer's original sealed containers, each bearing the manufacturer's guaranteed analysis and marketed in compliance with State and Federal Laws. All fertilizer shall be used in accordance with the manufacturer's recommendations.

2. The analysis for supplemental maintenance fertilizer shall have a ratio of Nitrogen (N) – Phosphorous (P) – Potassium (K) of approximately 1 – 2 – 2 and shall be applied to deliver 1 pound of Nitrogen per 1000 square feet, or as approved by the Engineer. At least 50 percent of nitrogenous elements shall be Urea-form or derived from organic sources and contain no less than 3 percent water soluble Nitrogen.

D. SEED:

1. Seed shall be of an approved perennial variety mixture, the previous year's crop, clean, and high in germinating value. Weed seed content shall be less than 0.5 percent and include no noxious weeds. Seed shall be obtained from a reliable seed company and shall be accompanied by certificates of compliance relative to mixture purity and germinating value. Seed shall be furnished and delivered in new, clean,

sealed and properly labeled containers. All seed shall comply with applicable State and Federal laws. Seed that has become wet, moldy or otherwise damaged shall not be accepted.

2. Grass seed for lawn areas shall conform to the following requirements, or approved equal:

| Common Names | Proportion by Weight | Germination Rate | Purity Minimum |
|---|---|---|---|
| Kentucky Bluegrass | 40% | 75% Min. | 97% Min. |
| Tall Fescue | 20% | 75% Min. | 97% Min. |
| Red Fescue | 20% | 75% Min. | 97% Min. |
| Perennial Rye | 20% | 75% Min. | 97% Min. |

3. No Mow Lawn Mix or Low Fescue Mix shall be "No Mow Lawn Seed Mix" by Prairie Nursery Native Plants and Seed, or approved equal, shall be installed per manufacturer's specifications for seeding rate and dispersal type, and shall conform to the following requirements:

    Hard Fescue (Festuca brevipila)
    Sheep Fescue (Festuca ovina)
    Chewings Fescue (Festuca rubra subs. Fallax)
    Red Fescue (Festuca rubra)
    Creeping Red Fescue (Festuca rubra var. rubra)

E. MULCH (SEEDING ONLY):

1. Materials to be used in mulching seeded areas shall be free of weed seed and shall conform to the following requirements:

2. Straw Mulch shall consist of clean grain straw certified by state or national agency to be free of noxious weed seeds, seed bearing stalks, and/or other reproductive propagules as defined by rules and regulations of the Massachusetts Department of Agricultural Resources and/or the Massachusetts Department of Energy and Environmental Affairs.

3. Mulch shall not be derived from pasture hay containing reed canary grass, smooth brome and other introduced species.

4. Mulch shall arrive to the site in an air-dried condition.

F. HYDROSEED MULCH, TACKIFIERS AND WATER RETENTION AGENTS:

1. Wood fiber mulch for Hydroseed application shall be a manufactured product of natural wood cellulose fibers with a non-toxic green marking dye incorporated to ensure uniform distribution. Mulch shall be packed in sealed original containers, clearly labeled with brand name and manufacturer. It shall have delivered moisture content less than 12 percent.

2. Hydroseed tackifier shall be a powdered starch-based product approved by the Engineer. Hydroseed tackifier shall be applied in conjunction with the hydroseed slurry in accordance with the manufacturer's recommendations.

3. Moisture retention agent shall be a powdered starch-based product, approved by the Engineer, and shall be capable of retaining up to 400 times their weight in water. Moisture retaining agents shall be added to the hydroseed slurry in accordance with the manufacturer's recommendations. Moisture retention agent shall be 'Hydro-Gel', as manufactured by Finn Corporation, Fairfield, OH.

4. Contractor to submit mix ingredients prior to installation of hydroseed.

5. Seed-water mixture shall be applied within one hour after the seed is added to the hydro-seeder tank.

G. SLOPE EROSION PROTECTION:

1. Erosion control blanket shall be 100 percent biodegradable mesh with 100 percent biodegradable straw or straw/coconut fill. Fill shall be held together by biodegradable fastening. Weight shall be 0.50 pounds per square yard. Erosion control blankets shall be applied parallel to direction of water flow. The erosion control blankets shall be by North American Green, Evansville, IN or approved equal. For slopes 4:1 or greater, erosion control blanket shall be composed of 70 percent straw 30 percent coconut fiber, Model SC150. For slopes less than 4:1, and for all marked swales, erosion control blanket shall be high velocity straw matting, Model S150.

2. Six-inch wire staples shall be placed in accordance with the manufacturer's recommendations to anchor the mesh material. Staples shall be biodegradable.

H. WATER:

1. Water shall be furnished by the Contractor, unless otherwise specified, and shall be suitable for irrigation and free from ingredients harmful to plant growth and viability. The delivery and distribution equipment required for the application of water shall be the furnished by the Contractor, at no additional cost to the Owner.

I. INSECTICIDES:

1. No insecticides shall be used on-site without the Contractor notifying and obtaining prior approval of the Engineer.

2. Insecticides shall be EPA registered and approved for use in public open spaces. All insecticides shall be handled by State licensed applicators only, delivered in the original sealed manufacturer's containers, and used in accordance with the manufacturer's instructions.

3. Insecticide use shall be limited and selective, only to control specific insect infestations, as identified by the Contractor or the Owner's Representative that may result in the disfigurement, decline, or death of plant materials.

4. Grub control insecticide shall be Proturf Insecticide III, as manufactured by A.M. Scotts & Sons, Inc.; Dursban Granules, as manufactured by Old Fox Chemical Corp., or ACMC; or approved equal.

J. HERBICIDES:

1. No herbicides shall be used on-site without the Contractor notifying and obtaining prior approval of the Engineer.

2. All herbicides shall be EPA registered and approved for use in public open spaces. All herbicides shall be handled by State licensed applicators only, delivered in the original sealed manufacturer's containers, and used in accordance with the manufacturer's instructions.

3. Herbicide for post-emergent application shall be glyphosate contact, 'Roundup', as manufactured by Monsanto, Inc., or approved equal.

4. Herbicide use shall be limited and selective, only to control specific weed infestations that have been identified by the Contractor or the Owner's Representative.

K. FUNGICIDES:

1. No fungicides shall be used on-site without the Contractor notifying and obtaining prior approval of the Engineer.

2. Fungicides shall be EPA registered and approved for use in public open spaces. All fungicides shall be handled by State licensed applicators only, delivered in the original sealed manufacturer's containers, and used in accordance with the manufacturer's instructions.

3. Fungicide use shall be limited and selective, only to control specific fungal

pathogenic disease infestations, as identified by the Contractor or the Owner's Representative that may result in the disfigurement, decline, or death of plant materials.

PART 3 - EXECUTION

3.01 GENERAL:

A. All work shall be performed by skilled workers with a minimum of two years of seeded lawn construction AND a minimum of three prior meadow, prairie, or other non-lawn construction, and establishment experience and under the full-time supervision of a qualified foreman.

B. Loam shall be a minimum of 6-inches compacted thickness. Any areas of deficient loam thickness shall be repaired at no cost to the Owner.

C. Seeding operations shall not begin less than 4 days after the application of lime and fertilizer and the seedbed areas are reviewed and approved by the Engineer. And no later than 1 week after final site grading.

D. Lime shall be applied to bring the pH to 6.5 or, without a soil test, at the rate of 2-3 tons of lime per acre.

E. Loam shall be worked a minimum of 3-inches deep, thoroughly incorporating the lime and fertilizer into the soil. The loam shall then be raked until the surface is finely pulverized and smooth and compacted with rollers, weighing not over 100 pounds per linear foot of tread, to an even surface conforming to the prescribed lines and grades. Minimum depth shall be 6-inches after completion. Seeding shall be done when soil and weather conditions permit in early spring, until May 31, or from September 10 to October l5, unless otherwise approved. If it becomes necessary for seed to be sown after June 15, provisions shall be made for supplementary water and using mulch cover over seeded areas.

F. If there is a delay in seeding, during which weeds grow, or soil is washed out, the Contractor shall eliminate the weeds by chemical or physical means, or replace the soil before sowing the seed, without additional compensation.

G. Seed shall be sown at the approved rate, on a non-windy day by machine, or as approved by the Engineer. The site shall be prepared by loosening topsoil to a minimum depth of 3 inches. Seedbed be loosened to a point that there are spaces for seed to filter into, as approved by the Owners representative.

F. The surface shall be kept moist by a fine spray until the seed shows uniform germination over the entire area. Wherever poor germination occurs in areas larger than 3 square feet, the Contractor shall reseed, roll, straw and water as necessary to obtain proper germination.

G. If there is insufficient time in the planting season to complete soil preparations, fertilizing, and seeding, permanent seeding may be left until the following planting season, at the option of the Contractor, or on order of the Engineer. In that event, a temporary cover crop shall be sown. This cover crop shall be cut and watered as necessary until the beginning of the following planting season, at which time it shall be plowed or harrowed into the soil, the area shall be fertilized and the permanent seed crop shall be sown as specified.

H. Protection of all newly loamed and graded areas is required and shall be accomplished by whatever means necessary such as mulch applied with a tackifier, or by other means approved by the Engineer. The Contractor shall be responsible for the prevention of siltation in areas beyond the limit of work and for all means of protection throughout the maintenance period at no additional cost to the Owner.

3.02 LOAM TESTING REQUIREMENTS

A. Loam (vegetative support layer) samples shall be collected from in-place loam at a minimum of every 1,000 cubic yards and analyzed for grain size (ASTM D422), pH (ASTM D6276) and organic content (ignition test).

3.03 SURFACE PREPARATION:

A. If approved by the Engineer, the entire site area to be seeded shall be treated with an approved herbicide, in accordance with the manufacturer's instructions, not less than 7 days before the start of seeding operations.

B. If approved by the Engineer, grub control insecticide shall be spread on the surface of the seedbed, in accordance with the manufacturer's instructions, after the seedbed has been properly graded, not less than 24 hours before the start of seeding operations.

3.04 BROADCAST SEEDING, PLACING MULCH AND SLOPE EROSION PROTECTION:

A. The seed mix shall be broadcast at 6 pounds per 1000 square feet, as recommended by the seed supplier, or as directed by the Engineer. Seed shall be divided into 2 equal amounts and uniformly distributed in 2 applications at right angles to each other. Seed shall then be raked lightly into the soil to a depth of l/4 inch.

B. Seed shall be directly firmed into the soil with a roller that will apply pressure between 75 and 100 pounds per linear foot of width.

C. Hay or Straw Mulch shall be used based on time of seeding as previously specified over all seeded areas, as designated on the plans, or as otherwise directed. If mulch is to be used, it shall be loosely spread to a uniform depth at a rate of 4-1/2 tons per acre to provide ¼ inch of cover, or as otherwise directed. The seed and mulch shall then be firmed into

the soil with a roller that will apply a pressure between 75 and 100 pounds per foot of width.

D. Hay or Straw Mulch may be applied by mechanical apparatus, if in the judgment of the Engineer, the apparatus spreads the mulch uniformly and forms a suitable mat to control slope erosion. The apparatus shall be capable of spreading at least 80 percent of the hay or straw in lengths of 6-inches or more, otherwise it shall be spread by hand without additional compensation.

E. Slope erosion control blankets shall be placed as indicated or as directed by the Engineer.

3.05 HYDROSEEDING:

A. The application of lime, fertilizer, grass seed and mulch may be accomplished in a single operation with the use of approved hydroseeding equipment. The materials shall be mixed with water in the machine and kept in an agitated state in order that the materials may be uniformly suspended in the water. The slurry shall be of such consistency that it can be sprayed from a hydroseed gun or through at least 200 feet of 1 ½ inch diameter hose. The spraying equipment shall be so designed that when the solution is sprayed over an area, the resulting deposits of lime, fertilizer, grass seed, and mulch shall be equal to the specified quantities.

B. Prior to the start of hydroseeding, the Contractor shall furnish to the Engineer, in writing, the weights of limestone, fertilizer, grass seed, mulch, tackifier (as required) and moisture retention agent (as required) per 100 gallons of water to be used. This statement should also specify the number of square yards of seeding that can be covered with the solution specified above. If the results of hydroseeding operations are unsatisfactory, the Contractor will be required to abandon this method and to apply the lime, fertilizer, grass seed and mulch by other means.

C. Seed shall be incorporated with the mulching material to obtain a minimum hydroseeded sown coverage of 200 pounds of the specified seed mix per acre, as recommended by the seed suppliers, or as directed by the Engineer.

D. Wood fiber mulch shall be uniformly spread over certain selected seeded areas at the minimum rate of 1,400 pounds per acre unless otherwise directed. Mulch shall be placed by spraying from an approved spraying machine with pressure sufficient to cover the entire area in a single operation.

E. The Contractor shall immediately cleanup hydroseed oversprays from plant materials, pavements, furnishings, etc., to the satisfaction of the Engineer.

3.06 TURF MAINTENANCE:

A. The Contractor shall maintain and protect the entire seeded area, as necessary to ensure dense healthy growth, until completion of the guarantee period and final acceptance of

the project, or for 60 days, whichever is longer. If lawns are planted in late summer or during the fall, maintenance shall continue through the following spring for at least 30 days. Maintenance shall include watering as specified, liming, fertilizing, removal of stones, control of weeds, insect pests and fungal pathogens, and regular mowing. Defective work shall be corrected as soon as possible after it becomes apparent and weather and season permit.

B. The first cutting of lawn areas shall be done when the grass is between 2 ½ - 3 inches in height. The lawn shall be cut no shorter than 2 inches in height and shall be regularly mowed as necessary to maintain the above-prescribed conditions. All cuttings shall be removed from the lawn during the maintenance period and disposed of off-site.

C. The Contractor shall be responsible to regularly water seeded areas with the equivalent of 1-inch minimum of rainfall per week, or as necessary to develop and sustain dense, green growth.

D. Six weeks after turf has established, and only during the months of April, May, or September, the Contractor shall apply fertilizer as specified above, at one half the rate recommended by the initial soils laboratory tests, or as directed by the Engineer.

E. The Contractor shall be responsible for securing all seeded areas from physical damage as necessary, including warning signs, barriers, temporary fencing, or other means of protection, through the guarantee period until final acceptance. All damaged areas shall be repaired to reestablish healthy vigorous growth of turf to the satisfaction of the Engineer, at no additional cost to the Owner. All temporary barriers shall remain the property of the Contractor and shall be removed by the Contractor upon final acceptance by the Engineer.

F. Pavement shall be kept clean and clear of cuttings and debris at all times during the maintenance period to the satisfaction of the Engineer.

3.07 INSPECTION AND PRELIMINARY ACCEPTANCE:

A. At the beginning of the planting season following that in which the permanent grass crop is sown, seeded areas will be inspected. Any section not showing dense, vigorous growth shall be promptly reseeded by the Contractor at no additional cost to the Owner. The seeded areas shall be watered, weeded, cut and otherwise maintained by the Contractor, as many times as necessary, in accordance with these specifications, until they are accepted.

B. The Contractor shall provide written notice to the Engineer not less than 10 days before the anticipated date of inspection for preliminary acceptance. The Engineer shall recommend preliminary acceptance of the work of this Section only after completion and re-inspection of all necessary repairs, renewals, or replacements.

C. Inspection and acceptance of seeded areas may be requested and granted in part, provided

the areas for which acceptance is requested are relatively substantial in size, and with clearly definable boundaries. Acceptance and use of these areas by the Owner shall not waive any other provisions of this Contract.

3.08 GUARANTEE:

A. Seeded areas shall be guaranteed until final acceptance of the project, or, in the case of late summer or fall planting, the guarantee period shall extend through the following spring.

B. When the work is accepted in part, the guarantee period shall extend from each partial acceptance to the terminal date of the last guarantee period. All guarantee periods terminate at one time.

C. Guarantee shall not apply to the replacement of seeded lawns resulting from the removal, loss, or damage due to occupancy of the project in any part; vandalism or acts of neglect on the part of others; physical damage by animals, vehicles, etc.; and Acts of God, including but not limited to, catastrophic fire, hurricanes, riots, war, etc.

D. In the instance of curtailment of water by local water authorities (when supply was to be furnished by the Owner), the Contractor shall furnish all necessary water by water tanker, the cost of which will be approved and paid for by the Owner.

3.09 FINAL INSPECTION AND FINAL ACCEPTANCE:

A. At the end of the guarantee period, the Contractor shall provide written notice to the Engineer not less than 10 days before the anticipated date of final inspection for final acceptance.

B. The Engineer shall recommend final acceptance of the work of this Section only after completion and re-inspection of all necessary repairs, renewals or replacements.

END OF SECTION

Appendix A

Remedial Action Plan (RAP) dated March 2024

# APPENDIX H

Permitting Information

# ARMY CORPS OF ENGINEERS

## SELF VERIFICATION NOTIFICATION (AUGUST 2024)

Weston & Sampson SM

westonandsampson.com

55 Walkers Brook Drive, Suite 100
Reading, MA 01867
tel: 978.532.1900

# ACOE: Self-Verification Notification

AUGUST 2024

## REMEDIATION: RELEASE OF MINERAL OIL DIELECTRIC FLUID (MODF)
## 27 PARSONS LANE & 105 MIDDLEFIELD ROAD

PREPARED FOR:
EVERSOURCE ENERGY

SUBMITTED TO:
US ARMY CORPS OF ENGINEERS – REGULATORY DIVISION



Weston & Sampson

55 Walkers Brook Drive, Suite 100, Reading, MA 01867
Tel: 978.532.1900

August 5, 2024

U.S. Army Corps of Engineers
Regulatory Division
696 Virginia Road
Concord, Massachusetts 01742-2751

*Re: Pre-Construction Notification (PCN) Submittal*
*Remediation: Mineral Oil Dielectric Fluid (MODF) Release*
*27 Parsons Lane & 105 Middlefield Road*
*Durham, CT*

To whom it may concern:

On behalf of The Connecticut Light and Power Company dba Eversource Energy (Eversource), Weston & Sampson Engineers, Inc. is hereby enclosing one (1) copy of the application for the Army Corp of Engineers Self-Verification Notification (SVN) for remediation work at 27 Parsons Lane & 105 Middlefield Road in Durham, CT. This is being submitted for review because of impacts within a waterway.

As part of the filing, we have attached the following:

Appendix A: Additional Project Information
Appendix B: Locus Map
Appendix C: Project Plans and Details
Appendix D: IPAC Review

If you have any questions regarding this submittal, please contact me at (978) 532-1900.

Very truly yours,

WESTON & SAMPSON



Alexandra Gaspar
Project Environmental Scientist

US Army Corps of Engineers ®
New England District

## Appendix E: Self-Verification Notification Form

This form is required for all inland projects in Connecticut, but it is not required if work is done within boundaries of Mashantucket Pequot or Mohegan Tribal Lands. At least two weeks before work commences, complete all fields (write "none" if applicable) below, send this form, Official Species List (see GC 12), documentation of THPO and SHPO notifications if applicable, site location map, project plans (not required for projects involving the installation of construction mats only) and any State or local approval(s) to:

Regulatory Division, Branch B
U.S. Army Corps of Engineers
696 Virginia Road
Concord, MA 01742-2751
*or* cenae-r-ct@usace.army.mil

*and*

CT DEEP
79 Elm Street
Hartford, CT 06106-5127
DEEP.LWRDRegulatory@ct.gov

State Permit Number: _____ Date of State Permit: _____

Permittee: Andrew Blicharz,
Address, City, State & Zip: Eversource 107 Selden Street, BMN2, Berlin CT
Phone(s) and Email: 617-549-5495 drew.blicharz@eversource.com

Agent: Alexandra Gaspar, Weston & Sampson
Address, City, State & Zip: Engineers 55 Walkers Brook Dr, Suite 100 Reading, MA
Phone(s) and Email: 978-532-1900, agaspar@wseinc.com

Contractor: TBD
Address, City, State & Zip: _____
Phone(s) and Email: _____

Project Name: REMEDIATION: 27 PARSONS LANE MODF RELEASE
Project Location (provide detailed description & locus map):
Address, City, State & Zip: 27 Parsons Lane & 105 Middlefield Road
Lat. ° N, Long ° (Decimal Degrees):
Waterway Name: tributary to Coginchaug River

Proposed Work Dates: Start: 10/1/2024 11/1/2024 Finish: _____

Work will be done under the following GPs (circle all that apply):

| 2 | 5 | 6 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 17 | 18 | 19 | 21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Area of Wetland Impacts (SF): Permanent: 0 SF SF Temporary: 0

Area of Waterway Impacts (SF): Permanent: 166 SF Temporary: 0 SF 0 SF

TOTAL Project Impact (SF): Permanent: 166 SF Temporary: _____

Describe the specific work that will be undertaken in waters and wetlands:
The objective of this project is to complete targeted remediation of PCB-impacted sediment in the drainage channel for the 8-in. clay pipe and the stream located on the 27 Parsons Lane and 105 Middlefield Road parcels to reduce contaminant concentrations below TSCA and RSR criteria. Accomplishing this work will allow for the closure of the mineral oil dielectric fluid (MODF) spill incident.

Have the THPOs and the CT SHPO been notified of the proposed work per the procedures in GC 11? If so, attach any responses received to this form.
Yes X date contacted 8/6/2024 No _____

Are there Federally listed endangered/threatened species, other than the northern long-eared bat, present? (see GC 12) Yes _____ No X

Confirm no SAVs are present or will be impacted: Yes X No_____ (No SAVs)
Applicable to GPs:

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5 | 6 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 17 | 18 | 19 | 21 |

Confirm no unconfined work with impact to diadromous fish (see App. H): Yes _____ No_____
Applicable to GPs:

| | | | | | |
|---|---|---|---|---|---|
| 2 | 5 | 6 | 9 | 10 | 19 |

Confirm work complies with Stream Crossing BMPs (see App. G): Yes _____No_____

Applicable to GPs:

| | | | |
|---|---|---|---|
| 2 | 6 | 17 | 19 |

If GP 19 and work does not comply with Appendix G, identify date of Interagency Meeting where waiver was granted: Date of Meeting: _____
Identify interagency participants: CT DEEP:_____ USACE:_____

**Will your project include any secondary effects?** (Secondary effects include, but are not limited to, non-tidal waters or wetlands drained, flooded, fragmented, or mechanically cleared resulting from a single and complete project. See Appendix F - Definitions.) If YES, describe here:
No secondary effects are anticipated as part of this project

Your signature below, as permittee, indicates that you accept and agree to comply with the terms, eligibility criteria, and general conditions for Self-Verification under the Connecticut GPs.

**Permittee Signature:** _____ Date: 8/6/2024

# APPENDIX A

**PROJECT DESCRIPTION**

**Background**

This project proposes to mitigate impact resulting from releases of mineral oil dielectric fluid (MODF) containing polychlorinated biphenyl (PCB) that occurred at 27 Parsons Lane in Durham, Connecticut (CT) in 2018. The releases affected a nearby stream on the northwestern corner of the 27 Parsons Lane property and a western abutting property at 105 Middlefield Road in Durham, CT.

**Site Description**

The Site consists of two adjoining parcels at 27 Parsons Lane and 105 Middlefield Road totaling 18.14 acres located in the northern section of Durham, CT.

The 27 Parsons Lane property is a 5.05-acre parcel of land located at the end of Parsons Lane. It is improved with an irregular-shaped industrial/commercial building and small detached garage located in the central portion of the property. There is a mixture of dirt and paved parking areas on the southern, eastern, and western sides of the building, there are woodlands and an overgrown pond on the southern tip of the property, and there is a small stream on the northwestern corner of the property that is wooded and overgrown with dense vegetation. The parcel is identified by the Town of Durham Assessor as Parcel ID # 16-7.

The 105 Middlefield Road property is a 13.09-acre parcel of land located on the east side Middlefield Road. Much of the parcel is wooded and undeveloped except for the southwestern portion which contains a residential dwelling. The parcel contains several ponds (not included in the remediation areas), and the same stream mentioned above traverses across much of the property flowing generally in a northeast to southwest direction. The stream discharges into the Coginchaug River located approximately 2,600 feet (ft.) from the Site. The northern portion of the parcel borders the western side of the 27 Parsons Lane parcel, and it includes the area proposed for remediation. The parcel is identified by the Town of Durham Assessor as Parcel ID #15-12. The area surrounding the Site is a mixture of woodland and a combination of industrial, commercial, and residential uses.

**Scope of Work**

PCB concentrations in Site sediment exceed EPA TSCA and CTDEEP RSR criteria. The objective of this project is to complete targeted remediation of PCB-impacted sediment in the drainage channel for the 8-in. clay pipe and the stream located on the 27 Parsons Lane and 105 Middlefield Road parcels to reduce contaminant concentrations below TSCA and RSR criteria. Accomplishing this work will allow for the closure of the MODF spill incident.

The remedial approach will involve removing the PCB-impacted sediment by mechanical equipment and disposing of the remediation waste off-site at a permitted disposal facility. Verification sampling will be performed in the removal areas and the samples will be analyzed for PCBs to measure the effectiveness of the remedial actions. This process (i.e. remove impacted sediment followed by sampling and testing) will be repeated if verification sample results reveal residual PCB impacts exceeding specified cleanup goals. Once favorable test data is received for the removal areas, the remedial actions will be considered complete allowing for the backfilling and restoration of the drainage channel and stream to match pre-existing conditions. All work will be performed using industry-accepted practices and will comply with

applicable local, state, and federal permit requirements. Eversource is targeting the completion of this work during the summer or fall to coincide with the dry time of year to minimize the complications associated with excessive stream flow events, and generation of wastewater requiring off-site disposal at a permitted disposal facility.

The goal of the project is to accomplish the remedial activities at the Site in accordance with applicable federal and state regulations, be protective of human health and the environment, and avoid the need for constructing an engineered control (cap) or institutional control (land use restriction) on the affected areas. The intermittent stream involved in the remediation is considered a sensitive area receptor. Eversource submitted to CTDEEP a Request for Natural Diversity Data Base (NDDB) State Listed Species Review on April 3, 2023 (filing #97254). CTDEEP's review concluded there were no extant populations of Federal or State Endangered, Threatened or Special Concern species (RCSA Sec. 26-306) within the proposed remediation area. Eversource appreciates the importance and significance of the Durham Meadows Wildlife Management Area that lies approximately ½-mile downstream of the release area because it provides habitat for a variety of animal species including an NDDB-identified species of concern (the northern leopard frog). In 2022, a herpetologist conducted a Site visit to review habitat conditions in the field and assess the suitability of the targeted remediation areas for the NDDB-listed leopard frog. The herpetologist did not observe the NDDB-listed frog or suitable habitat (open, grassy habitats either along the floodplain of a large stream or river, or in wetlands around the margins of large lakes) within the proposed remediation areas. These observations corroborate the findings of the April 3, 2023 NDDB review.

The proposed remedial work will also be performed to comply with TSCA's Performance Based PCB Cleanups in accordance with Title 40 CFR Section 761.61(b). Grid verification sampling of the removal areas will be performed in accordance with 40 CFR 761.61 Subpart O. A cleanup standard of 0.5 mg/kg will be established for this project to comply with TSCA regulations, CTDEEP RSR criteria specified in Connecticut General Statutes (CGS) Sections 22a-133k-1 through 22a-133k-3, and satisfy recommendations provided in a July 21, 2022 CTDEEP interoffice memo prepared following the Department's review of the 2021 Screening-Level Ecological Risk Assessment (SLERA) report.

**Environmental Considerations**

Impacts from the proposed project will be to the waterway and bank of the small stream that discharges to the Coginchaug River. This impact includes approximately 166 SF of excavated soil. While resources will be impacted, the work will result in an overall improvement of the stream, as the purpose is to remove PCB contaminated soil. During construction, sandbag dams will be utilized so that work can be performed in the dry. Work will only occur on one side of the stream at a time, to ensure that flow is maintained throughout the duration of the project.

In addition to sandbag dams, the project proposes the construction of bypass piping to discharge past remediation areas.

Erosion controls such as straw wattles, silt fencing, catch basin inlet protection shall be used for the duration of the project. At a minimum, the contractor shall install straw wattles and silt fencing as shown on this drawing and at any other locations required to keep surface water runoff within the limits of work. Erosion and sediment control measures shall be furnished,

# APPENDIX B

# 27 Parsons Lane

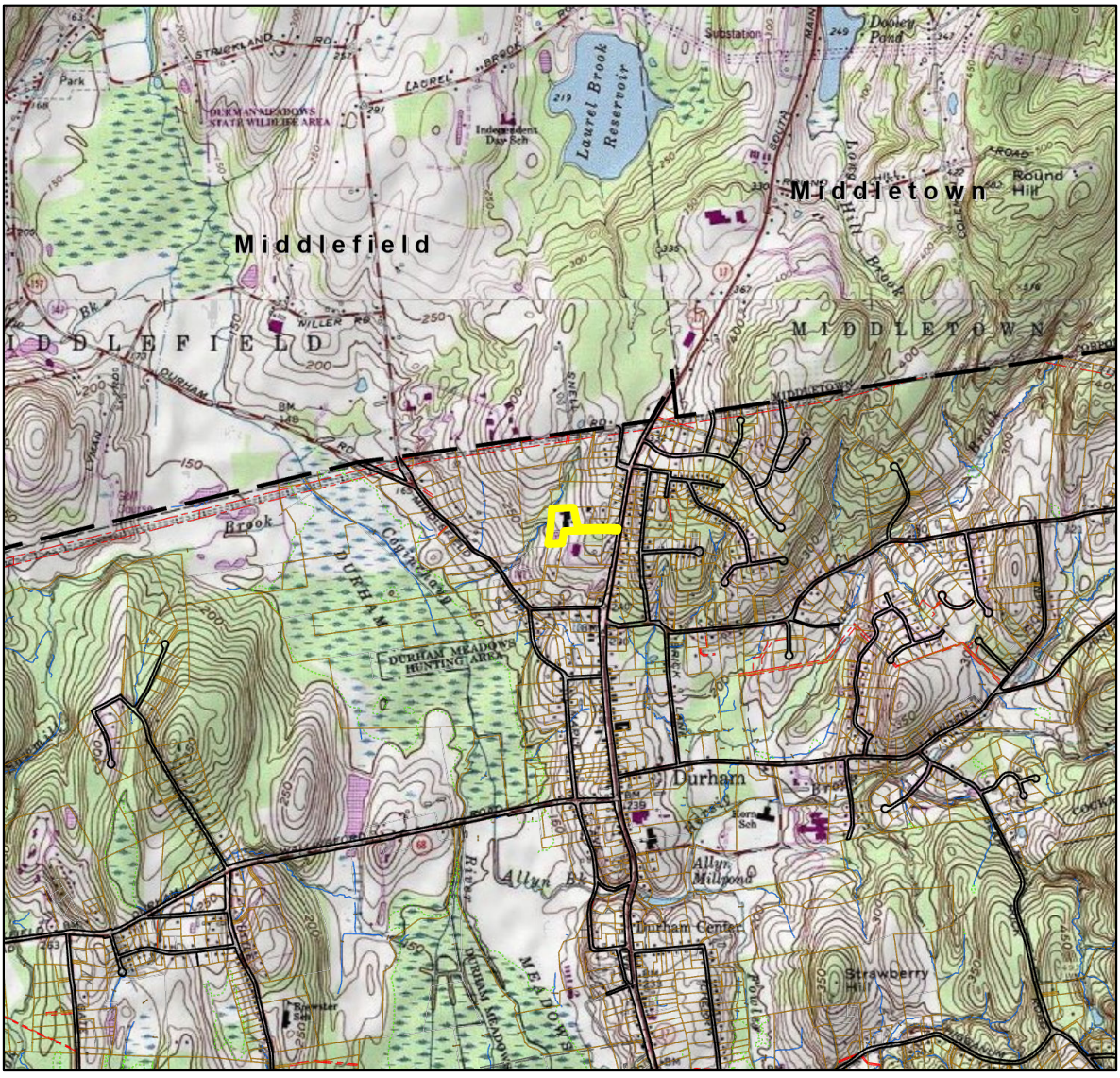
Town of Durham, CT

1 inch = 2400 Feet

0 2400 4800 7200

July 5, 2024

CAI Technologies
Precision Mapping. Geospatial Solutions.
www.cai-tech.com




| | | |
|---|---|---|
| Large Scale | Tract Line | Town Line TIC |
| CAI Town Line | Right of Way | Wetland |
| Property Line | Utility | WaterLines |
| Public Road | Property Hook | |

Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

APPENDIX C

# SEE ATTACHED PLANS

# APPENDIX D

# United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To: 07/19/2024 14:34:07 UTC
Project Code: 2024-0112027
Project Name: Remediation: MODF Release

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

*Updated 4/12/2023 - Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.*

## About Official Species Lists

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested by returning to an existing project's page in IPaC.

## Endangered Species Act Project Review

Please visit the "**New England Field Office Endangered Species Project Review and Consultation**" website for step-by-step instructions on how to consider effects on listed

species and prepare and submit a project review package if necessary:

https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review

***NOTE*** Please do not use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

**Northern Long-eared Bat -** (**Updated 4/12/2023**) The Service published a final rule to reclassify the northern long-eared bat (NLEB) as endangered on November 30, 2022. The final rule went into effect on March 31, 2023. You may utilize the **Northern Long-eared Bat Rangewide Determination Key** available in IPaC. More information about this Determination Key and the Interim Consultation Framework are available on the northern long-eared bat species page:

https://www.fws.gov/species/northern-long-eared-bat-myotis-septentrionalis

For projects that previously utilized the 4(d) Determination Key, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective. If your project was not completed by March 31, 2023, and may result in incidental take of NLEB, please reach out to our office at newengland@fws.gov to see if reinitiation is necessary.

*Additional Info About Section 7 of the Act*
Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/service/section-7-consultations

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Please contact NEFO if you would like more information.

**Candidate species** that appear on the enclosed species list have no current protections under the ESA. The species' occurrence on an official species list does not convey a requirement to

consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

**Migratory Birds**

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

https://www.fws.gov/program/migratory-bird-permit

https://www.fws.gov/library/collections/bald-and-golden-eagle-management

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

Attachment(s):

- Official Species List

# OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**New England Ecological Services Field Office**
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

# PROJECT SUMMARY

Project Code: 2024-0112027
Project Name: Remediation: MODF Release
Project Type: Non-NPL Site Remediation
Project Description: This project proposes to mitigate impact resulting from releases of mineral oil dielectric fluid (MODF) containing polychlorinated biphenyl (PCB) that occurred at 27 Parsons Lane in Durham, Connecticut (CT) in 2018. The releases affected a nearby stream on the northwestern corner of the 27 Parsons Lane property and a western abutting property at 105 Middlefield Road in Durham, CT.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@41.4904444,-72.68526794403692,14z




Counties: Middlesex County, Connecticut

## ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## MAMMALS

| NAME | STATUS |
|---|---|
| Northern Long-eared Bat *Myotis septentrionalis*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/9045 | Endangered |
| Tricolored Bat *Perimyotis subflavus*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/10515 | Proposed Endangered |

## INSECTS

| NAME | STATUS |
|---|---|
| Monarch Butterfly *Danaus plexippus*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/9743 | Candidate |

## CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

## IPAC USER CONTACT INFORMATION

Agency: Weston & Sampson Engineers
Name: Alexandra Gaspar
Address: 55 Walkers Brook Drive
Address Line 2: Suite 100
City: Reading
State: MA
Zip: 01867
Email gaspara@wseinc.com
Phone: 9785321900

# United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To:
Project code: 2024-0112027
Project Name: Remediation: MODF Release

07/19/2024 14:34:08 UTC

Federal Action Agency (if applicable):

**Subject:** Record of project representative's no effect determination for 'Remediation: MODF Release'

Dear Alexandra Gaspar:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on July 19, 2024, for 'Remediation: MODF Release' (here forward, Project). This project has been assigned Project Code 2024-0112027 and all future correspondence should clearly reference this number. **Please carefully review this letter.**

**Ensuring Accurate Determinations When Using IPaC**

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.***

**Determination for the Northern Long-Eared Bat**

Based upon your IPaC submission and a standing analysis, your project has reached the determination of "No Effect" on the northern long-eared bat. To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed

action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no consultation with the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13].

**Other Species and Critical Habitat that May be Present in the Action Area**

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Monarch Butterfly *Danaus plexippus* Candidate
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

You may coordinate with our Office to determine whether the Action may affect the animal species listed above and, if so, how they may be affected.

**Next Steps**

Based upon your IPaC submission, your project has reached the determination of “No Effect” on the northern long-eared bat. If there are no updates on listed species, no further consultation/ coordination for this project is required with respect to the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place to ensure compliance with the Act.

If you have any questions regarding this letter or need further assistance, please contact the New England Ecological Services Field Office and reference Project Code 2024-0112027 associated with this Project.

**Action Description**
You provided to IPaC the following name and description for the subject Action.

**1. Name**

Remediation: MODF Release

**2. Description**

The following description was provided for the project 'Remediation: MODF Release':

> This project proposes to mitigate impact resulting from releases of mineral oil dielectric fluid (MODF) containing polychlorinated biphenyl (PCB) that occurred at 27 Parsons Lane in Durham, Connecticut (CT) in 2018. The releases affected a nearby stream on the northwestern corner of the 27 Parsons Lane property and a western abutting property at 105 Middlefield Road in Durham, CT.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@41.4904444,-72.68526794403692,14z



# DETERMINATION KEY RESULT

Based on the information you provided, you have determined that the Proposed Action will have no effect on the Endangered northern long-eared bat (Myotis septentrionalis). Therefore, no consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required for those species.

## QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

   **Note:** Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

   *No*

2. The proposed action does not intersect an area where the northern long-eared bat is likely to occur, based on the information available to U.S. Fish and Wildlife Service as of the most recent update of this key. If you have data that indicates that northern long-eared bats are likely to be present in the action area, answer "NO" and continue through the key.

   Do you want to make a no effect determination?

   *Yes*

# PROJECT QUESTIONNAIRE

## IPAC USER CONTACT INFORMATION

Agency: Weston & Sampson Engineers
Name: Alexandra Gaspar
Address: 55 Walkers Brook Drive
Address Line 2: Suite 100
City: Reading
State: MA
Zip: 01867
Email gaspara@wseinc.com
Phone: 9785321900

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MASSACHUSETTS 01742-2751

REPLY TO
ATTENTION OF

August 22, 2024

Regulatory Division
File Number: NAE-2024-01993

Andrew Blicharz
Eversource Energy
107 Selden Street
Berlin, Connecticut 06037
Drew.Blicharz@eversource.com

Dear Mr. Blicharz:

PROPOSED WORK/LOCATION: Removal of contaminated material from 166 square feet of an unnamed tributary to the Coginchaug River. All work is to be performed in dry conditions. Project is located at 27 Parsons Lane in Durham, Connecticut.

We have reviewed your proposal to perform work within U.S. Army Corps of Engineers jurisdiction. We have assigned this file number **NAE-2024-01993.** Please reference this number in any future correspondence with us.

Since your project may have only minimal individual and cumulative impacts on wetlands and other waters of the United States, it is authorized by the U.S. Army Corps of Engineers under the Connecticut General Permits (GPs). This authorization does not obviate the need to obtain other federal, state, or local approvals. You are responsible for ensuring that the work meets the terms and conditions of the CT GPs. We have recorded this project as permittee self-verification of the CT GPs in our database.

Please contact Mr. Keith Goulet of my staff at (978) 318-8296 or Keith.A.Goulet@usace.army.mil if you have any questions.

Sincerely,

Digitally signed by Daniel Breen
Date: 2024.08.22 16:02:50 -04'00'

Daniel B. Breen
Chief, Transportation & Utility Section
Regulatory Division

Enclosure

cc:
Alexandra Gaspar, Weston & Sampson; gaspara@wseinc.com
Nathan Margason, US EPA; Margason.Nathan@epa.gov
Bianca Beland, CT DEEP; Bianca.Beland@ct.gov

# CT DEEP NDDB REVIEWS #3 and #4

(February 2023 and August 2024)

**Connecticut Department of Energy & Environmental Protection**
Bureau of Natural Resources
Wildlife Division

**CPPU USE ONLY**

**App #:**_____

**Doc #:**_____

**Check #: No fee required**

**Program: Natural Diversity Database Endangered Species**

**Hardcopy** _____ **Electronic** _____

# Request for Natural Diversity Data Base (NDDB) State Listed Species Review

This form was auto-populated with information provided through the DEEP ezFile portal NDDB review application.
**There are no fees associated with NDDB Reviews.**

## Part I: Preliminary Screening & Request Type

Before submitting this request, you must review the most current Natural Diversity Data Base "State and Federal Listed Species and Significant Natural Communities Maps" found on the DEEP website. These maps are updated twice a year, usually in June and December.

This form is being submitted for a:

| | |
|---|---|
| ☒ *New* NDDB request<br>☐ *Renewal* of a NDDB Request ***without*** *modifications and within* ***two years*** *of issued NDDB determination* (no attachments required)<br>[*CPPU Use Only - NDDB-Listed Species Determination #* 1736] | ☐ *New* **Safe Harbor Determination**; must be associated with an application for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (Attachment D of this form is required)<br>☐ *Renewal/Extension* of an existing Safe Harbor Determination<br>☐ With modifications<br>☐ Without modifications (no attachments required)<br>[*CPPU Use Only - NDDB-Safe Harbor Determination #* 1736] |
| Enter NDDB Determination Number for Renewal: | Enter Safe Harbor Determination Number for Renewal/Extension: |

1. Does your project utilize federal funds or require a federal permit? ☒ Yes ☐ No

If yes, your project may be subject to Federal rules regarding the Northern long-eared bats or other federally listed species. Information on the Northern long-eared bat and the 4-D rule may be found at:

http://www.fws.gov/midwest/endangered/mammals/nleb/

Information on other federally listed species and Section 7 consultations may be found at:

https://www.fws.gov/newengland/EndangeredSpec-Consultation.htm

2. Does your project utilize state funding, involve state agency actions, or relate to a CEPA request?

☐ Yes ☒ No

3. Does your project require state permits, licenses, registrations or authorizations? ☒ Yes ☐ No

If yes, list permit type(s): Remediation

If an active enforcement action exists regarding this project, enter number:

If known, enter DEEP analysts reviewing this project:

## II: Requester Information

***If the requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, the name shall be stated **exactly** as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of the State's database CONCORD.* (www.concord-sots.ct.gov/CONCORD/index.jsp)

*If the requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).*

*If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the Request to Change company/Individual Information to the address indicated on the form.*

### 1. Requester*

Company Name: EVERSOURCE ENERGY SERVICE COMPANY
Contact Name: Michelle Ford
Address: 107 SELDEN ST
City/Town: BERLIN
State: CT
Zip Code: 06037
Business Phone: 8606653183 Ext:
**E-mail: michelle.ford@eversource.com

**By providing this email address you are agreeing to receive official correspondence from the department, at this electronic address, concerning this request. Please remember to check your security settings to be sure you can receive emails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes

a) Requester can best be described as:

☐ Individual ☐ Federal Agency ☐ State agency

☐ Municipality ☐ Tribal ☒ *business entity (* if a business entity complete i through iii):

i) Check type ☐ corporation ☐ limited liability company

☐ limited partnership ☐ limited liability partnership

☐ statutory trust ☐ Other:

ii) Provide Secretary of the State Business ID #: 0033981 This information can be accessed at the Secretary of the State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)

iii) ☐ Check here if your business is **NOT** registered with the Secretary of State's office.

b) Acting as (Affiliation), pick one:

☐ Property owner ☐ Consultant ☐ Engineer

☐ Facility owner ☒ Applicant ☐ Biologist

☐ Pesticide Applicator ☐ Other representative:

## Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

**SITE NAME AND LOCATION**

Project Name (for use in correspondence): 27 Parsons Road Remediation

If your Project site has a street address, please enter below:

Street Address: 27 Parson Ln

Town(s): Durham

If your Project has no street address, please enter a description of the site location:

Location Description:

Town(s):

Size in acres, or site dimensions: 0

Describe existing land conditions:

## Part IV: Project Information

1. **Project Type**:

   Choose Project Category: `Natural Resource/Site Management`

   Choose Project Type: `Remediation`

   Choose Project Subtype: `Contaminated soil remediation`

2. Brief Project Description:

3. Provide a schedule for all phases of the project including the year, the month that the proposed activity will be initiated and the duration of the activity.

4. Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint? ☐ Yes ☐ No If yes, add explanation in No. 4 below.

5. Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used. Include a description of steps that will be taken to minimize impacts to any known listed species.

6. If this is a renewal or extension of an existing Safe Harbor request *with* modifications, explain what about the project has changed.

## Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all new requests. Attachment C is required for requests associated with: new state or federal permit applications, modifications of existing permits, permit enforcement actions, site management/planning that requires details species recommendations, and state funded projects, state agency activities, and CEPA requests.** Renewals/Extensions with no modifications do not need to submit any attachments. Attachments C and D are supplied at the end of this form.

| | |
|---|---|
| ☒ Attachment A: | **Project Detail Map:** an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrangle Map clearly indicating the exact location of the site. |
| ☒ Attachment B: | **GIS file (for uploaded GIS polygons):** fine scaled map showing site boundary and area of work details on aerial imagery with relevant landmarks labeled. (Site and work boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document) |
| ☒ Attachment C: | **Supplemental Information (attached, DEEP-APP-007C):** Site plans, photographs and biological reports |
| ☐ Attachment D: | **Safe Harbor Report Requirements (attached, DEEP-APP-007D)** |

## Part VII: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief."

| | |
|---|---|
| Ford Michelle | 2/6/2023 |
| Signature of Preparer (a typed name will substitute for a handwritten signature) | Date |
| Ford Michelle | |
| Name of Preparer (print or type) | Title (if applicable) |
| | |
| Signature of Preparer (if different than above) | Date |
| | |
| Name of Preparer (print or type) | Title (if applicable) |

Note: Please submit the completed Request Form and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

**Or** email request to: **deep.nddbrequest@ct.gov**

## Attachment C: Supplemental Information and Attachments

**1. Existing & Proposed Conditions**

If available provide site plans, drawings or imagery showing existing conditions and proposed changes. If not available, describe all natural and man-made features including wetlands, watercourses with direction of flow, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan.

☐ **Annotated Site Plan(s) attached**

2. **Photographs** depicting site conditions can be helpful to reviewers. Provide and label photographs, if available.

☐ **Site Photographs (optional) attached**

**3. Biological Surveys**

Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species ☐ Yes ☐ No

If yes, submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDB survey forms. Reports should include biologist(s) name, habitat and/or species targeted by survey, plant and animal species observed, dates when surveys were conducted.

☐ **Reports of biological surveys attached**

☐ **Documentation of biologist's qualifications attached**

☐ **NDDB Survey forms for any listed species observations attached**

## Attachment D: Safe Harbor Report Requirements

Submit a report, as Attachment D, that synthesizes and analyzes the information listed below. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

**1. Habitat Description and Map(s), including GIS mapping overlays, of a scale appropriate for the site, identifying:**

- wetlands, including wetland cover types;
- plant community types;

- topography;
- soils;
- bedrock geology;
- floodplains, if any;
- land use history; and
- water quality classifications/criteria.

2. **Photographs** - The report should include photographs of the site taken from the ground and also all reasonably available aerial or satellite photographs and an analysis of such photographs.

3. **Inspection** - A visual inspection(s) of the site should be conducted, preferably when the ground is visible, and described in the report. This inspection can be helpful in confirming or further evaluating the items noted above.

4. **Biological Surveys** - The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.

5. **Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity.** This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.

6. **In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:**

   - Information on Site Disturbance Estimates/Site Alteration information
   - Vehicular Use
   - Construction Activity Phasing Schedules, if any; and
   - Alteration of Drainage Patterns

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION
79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

Generated by eNDDB on:
2/6/2023

Michelle Ford
EVERSOURCE ENERGY SERVICE COMPANY
107 SELDEN ST
BERLIN, CT 06037
michelle.ford@eversource.com

Subject: 27 Parsons Road Remediation
Filing # 95780
NDDB – New Determination Number: 202301425
27 Parson Ln
Durham

Expiration Date: 2/6/2025

Based on current data maintained by the Natural Diversity Database (NDDB) and housed in the DEEP ezFile portal, no extant populations of Federal or State Endangered, Threatened or Special Concern species (RCSA Sec. 26-306) are known to occur within the project area delineated for the Remediation / Contaminated soil remediation, 27 Parsons Road Remediation.

This NDDB – New determination may be utilized to fulfill the Endangered and Threatened Species requirements for state-issued permit applications, licenses, registration submissions, and authorizations. However, please be aware of the following limitations and conditions:

- This determination does not preclude the possibility that listed species may be encountered on site. Should this occur, a report must be submitted to the Natural Diversity Database promptly and additional action may be necessary to remain in compliance with certain state permits. Please fill out the appropriate survey form and follow the instructions for submittal.
- If your project involves preparing an Environmental Impact Assessment, this NDDB consultation and determination should not be substituted for any conducting biological field surveys assessing on-site habitat and species presence.
- This determination applies only to the project as described in the submission and summarized at the end of this letter. Please re-submit an updated Request for Review if the project's scope of work and/or timeframe changes, including if work has not begun by 2/6/2025.

The NDDB – New determination for the 27 Parsons Road Remediation at 27 Parson Ln, Durham as described in the submitted information and summarized at the end of this document is valid for two years from the date on this letter.

Natural Diversity Database information includes all information regarding listed species available to

us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, land owners, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Database and accessed through the ezFile portal as it becomes available.

This letter is computer generated and carries no signature. If however, any clarification is needed, or if you have further questions, please contact the following:

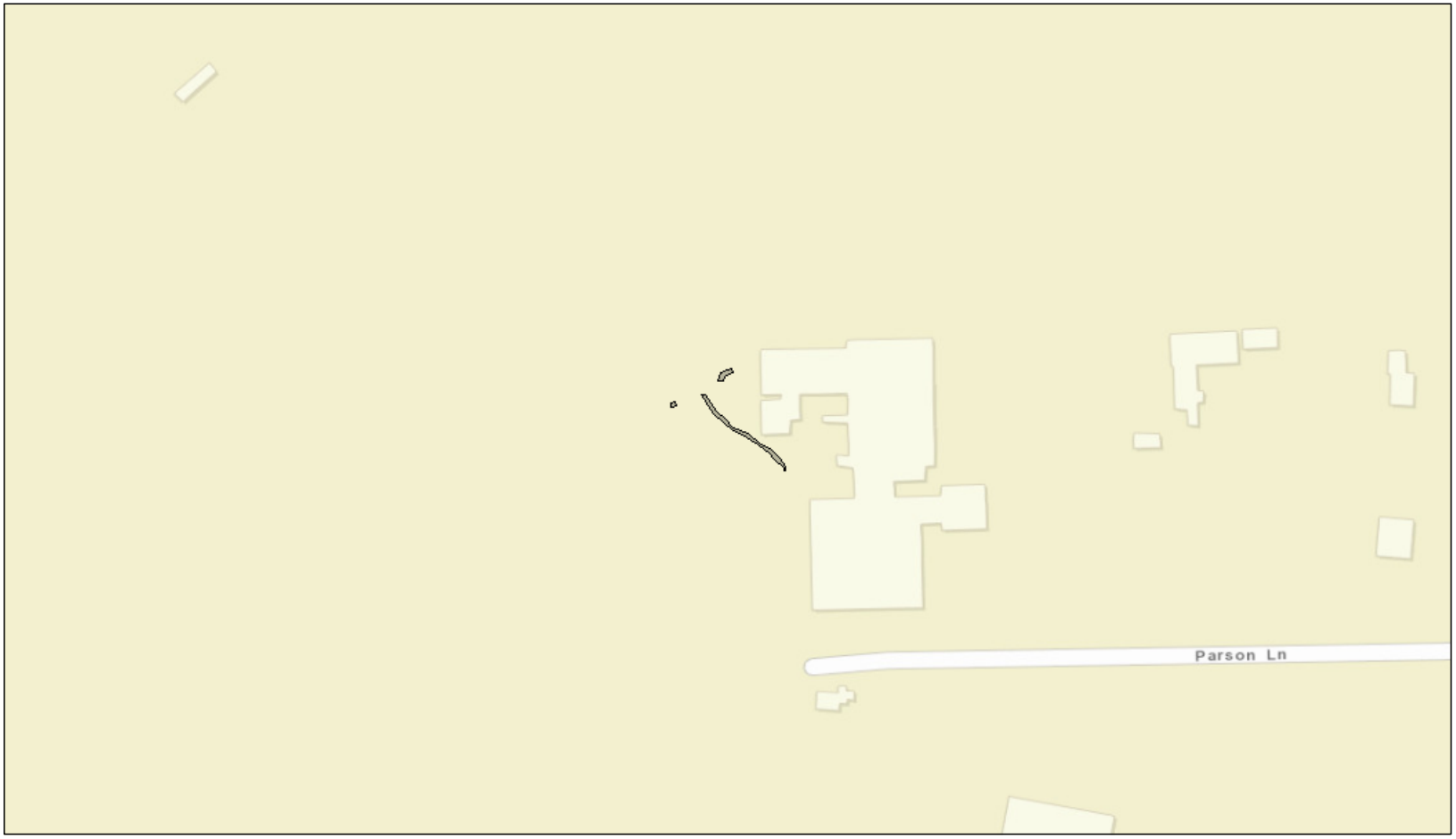
CT DEEP Bureau of Natural Resources
Wildlife Division
Natural Diversity Database
79 Elm Street, 6th floor
Hartford, CT 06106-5127
(860) 424-3011
deep.nddbrequest@ct.gov

Please reference the Determination Number provided in this letter when you e-mail or write. Thank you for submitting your project through DEEP's ezFile portal for Natural Diversity Database reviews.

Application Details:

| | |
|---|---|
| Project involves federal funds or federal permit: | Yes |
| Project involves state funds, state agency action, or relates to CEPA request: | No |
| Project requires state permit, license, registration, or authorization: | Yes |
| DEEP enforcement action related to project: | |
| Project Type: | Remediation |
| Project Sub-type: | Contaminated soil remediation |
| Project Name: | 27 Parsons Road Remediation |
| Project Description: | |

# 27 Parsons Road Remediation Map




February 6, 2023

1:2,399

0 0.02 0.04 0.08 mi

0 0.0325 0.065 0.13 km

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

**Connecticut Department of Energy & Environmental Protection**
Bureau of Natural Resources
Wildlife Division

**CPPU USE ONLY**

**App #:**_____

**Doc #:**_____

**Check #: No fee required**

**Program: Natural Diversity Database Endangered Species**

**Hardcopy** _____ **Electronic** _____

# Request for Natural Diversity Data Base (NDDB) State Listed Species Review

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**There are no fees associated with NDDB Reviews.**

## Part I: Preliminary Screening & Request Type

Before submitting this request, you must review the most current Natural Diversity Data Base "State and Federal Listed Species and Significant Natural Communities Maps" found on the DEEP website. These maps are updated twice a year, usually in June and December.

This form is being submitted for a:

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|---|---|
| ☒ *New* NDDB request<br>☐ *Renewal* of a NDDB Request ***without*** *modifications and within* ***two years*** *of issued NDDB determination* (no attachments required)<br>[*CPPU Use Only - NDDB-Listed Species Determination #* 1736] | ☐ *New* **Safe Harbor Determination**; must be associated with an application for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (Attachment D of this form is required)<br>☐ *Renewal/Extension* of an existing Safe Harbor Determination<br>☐ With modifications<br>☐ Without modifications (no attachments required)<br>[*CPPU Use Only - NDDB-Safe Harbor Determination #* 1736] |
| Enter NDDB Determination Number for Renewal: | Enter Safe Harbor Determination Number for Renewal/Extension: |

1. Does your project utilize federal funds or require a federal permit? ☒ Yes ☐ No

If yes, your project may be subject to Federal rules regarding the Northern long-eared bats or other federally listed species. Information on the Northern long-eared bat and the 4-D rule may be found at:

http://www.fws.gov/midwest/endangered/mammals/nleb/

Information on other federally listed species and Section 7 consultations may be found at:

https://www.fws.gov/newengland/EndangeredSpec-Consultation.htm

2. Does your project utilize state funding, involve state agency actions, or relate to a CEPA request?

☐ Yes ☒ No

3. Does your project require state permits, licenses, registrations or authorizations? ☐ Yes ☒ No

If yes, list permit type(s):

If an active enforcement action exists regarding this project, enter number:

If known, enter DEEP analysts reviewing this project:

## II: Requester Information

***If the requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, the name shall be stated **exactly** as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of the State's database CONCORD.* (www.concord-sots.ct.gov/CONCORD/index.jsp)

*If the requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).*

*If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the Request to Change company/Individual Information to the address indicated on the form.*

### 1. Requester*

Company Name: EVERSOURCE ENERGY SERVICE COMPANY
Contact Name: MICHELLE FORD
Address: 107 SELDEN ST
City/Town: BERLIN
State: CT
Zip Code: 06037
Business Phone: 8606653183 Ext:
**E-mail: MICHELLE.FORD@EVERSOURCE.COM

**By providing this email address you are agreeing to receive official correspondence from the department, at this electronic address, concerning this request. Please remember to check your security settings to be sure you can receive emails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes

a) Requester can best be described as:

☐ Individual ☐ Federal Agency ☐ State agency

☐ Municipality ☐ Tribal ☒ *business entity (* if a business entity complete i through iii):

i) Check type ☐ corporation ☐ limited liability company

☐ limited partnership ☐ limited liability partnership

☐ statutory trust ☐ Other:

ii) Provide Secretary of the State Business ID #: 0033981 This information can be accessed at the Secretary of the State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)

iii) ☐ Check here if your business is **NOT** registered with the Secretary of State's office.

b) Acting as (Affiliation), pick one:

☐ Property owner ☐ Consultant ☐ Engineer

☐ Facility owner ☒ Applicant ☐ Biologist

☐ Pesticide Applicator ☐ Other representative:

## Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

**SITE NAME AND LOCATION**

Project Name (for use in correspondence): 27 Parsons Road Remediation

If your Project site has a street address, please enter below:

Street Address: 27 Parson Ln

Town(s): Durham

If your Project has no street address, please enter a description of the site location:

Location Description:

Town(s):

Size in acres, or site dimensions: 0

Describe existing land conditions:

## Part IV: Project Information

1. **Project Type**:

   Choose Project Category: `Natural Resource/Site Management`

   Choose Project Type: `Remediation`

   Choose Project Subtype: `Contaminated soil remediation`

2. Brief Project Description:

3. Provide a schedule for all phases of the project including the year, the month that the proposed activity will be initiated and the duration of the activity.

4. Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint? ☐ Yes ☐ No If yes, add explanation in No. 4 below.

5. Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used. Include a description of steps that will be taken to minimize impacts to any known listed species.

6. If this is a renewal or extension of an existing Safe Harbor request *with* modifications, explain what about the project has changed.

## Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all new requests. Attachment C is required for requests associated with: new state or federal permit applications, modifications of existing permits, permit enforcement actions, site management/planning that requires details species recommendations, and state funded projects, state agency activities, and CEPA requests.** Renewals/Extensions with no modifications do not need to submit any attachments. Attachments C and D are supplied at the end of this form.

| | |
|---|---|
| ☒ Attachment A: | **Project Detail Map:** an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrangle Map clearly indicating the exact location of the site. |
| ☒ Attachment B: | **GIS file (for uploaded GIS polygons):** fine scaled map showing site boundary and area of work details on aerial imagery with relevant landmarks labeled. (Site and work boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document) |
| ☒ Attachment C: | **Supplemental Information (attached, DEEP-APP-007C):** Site plans, photographs and biological reports |
| ☐ Attachment D: | **Safe Harbor Report Requirements (attached, DEEP-APP-007D)** |

## Part VII: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

| | |
|---|---|
| "I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief." | |
| Ford Michelle<br>Signature of Preparer (a typed name will substitute for a handwritten signature) | 4/3/2023<br>Date |
| Ford Michelle<br>Name of Preparer (print or type) | Title (if applicable) |
| Signature of Preparer (if different than above) | Date |
| Name of Preparer (print or type) | Title (if applicable) |

Note: Please submit the completed Request Form and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

**Or** email request to: **deep.nddbrequest@ct.gov**

## Attachment C: Supplemental Information and Attachments

**1. Existing & Proposed Conditions**

If available provide site plans, drawings or imagery showing existing conditions and proposed changes. If not available, describe all natural and man-made features including wetlands, watercourses with direction of flow, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan.

☐ **Annotated Site Plan(s) attached**

2. **Photographs** depicting site conditions can be helpful to reviewers. Provide and label photographs, if available.

☐ **Site Photographs (optional) attached**

**3. Biological Surveys**

Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species ☐ Yes ☐ No

If yes, submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDB survey forms. Reports should include biologist(s) name, habitat and/or species targeted by survey, plant and animal species observed, dates when surveys were conducted.

☐ **Reports of biological surveys attached**

☐ **Documentation of biologist's qualifications attached**

☐ **NDDB Survey forms for any listed species observations attached**

## Attachment D: Safe Harbor Report Requirements

Submit a report, as Attachment D, that synthesizes and analyzes the information listed below. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

**1. Habitat Description and Map(s), including GIS mapping overlays, of a scale appropriate for the site, identifying:**

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- plant community types;

- topography;
- soils;
- bedrock geology;
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- water quality classifications/criteria.

2. **Photographs** - The report should include photographs of the site taken from the ground and also all reasonably available aerial or satellite photographs and an analysis of such photographs.

3. **Inspection** - A visual inspection(s) of the site should be conducted, preferably when the ground is visible, and described in the report. This inspection can be helpful in confirming or further evaluating the items noted above.

4. **Biological Surveys** - The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.

5. **Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity.** This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.

6. **In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:**

   - Information on Site Disturbance Estimates/Site Alteration information
   - Vehicular Use
   - Construction Activity Phasing Schedules, if any; and
   - Alteration of Drainage Patterns

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION
79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

Generated by eNDDB on:
4/3/2023

Michelle Ford
EVERSOURCE ENERGY SERVICE COMPANY
107 SELDEN ST
BERLIN, CT 06037
michelle.ford@eversource.com

Subject: 27 Parsons Road Remediation
Filing # 97254
NDDB – New Determination Number: 202303003
27 Parson Ln
Durham

Expiration Date: 4/3/2025

Based on current data maintained by the Natural Diversity Database (NDDB) and housed in the DEEP ezFile portal, no extant populations of Federal or State Endangered, Threatened or Special Concern species (RCSA Sec. 26-306) are known to occur within the project area delineated for the Remediation / Contaminated soil remediation, 27 Parsons Road Remediation.

This NDDB – New determination may be utilized to fulfill the Endangered and Threatened Species requirements for state-issued permit applications, licenses, registration submissions, and authorizations. However, please be aware of the following limitations and conditions:

- This determination does not preclude the possibility that listed species may be encountered on site. Should this occur, a report must be submitted to the Natural Diversity Database promptly and additional action may be necessary to remain in compliance with certain state permits. Please fill out the appropriate survey form and follow the instructions for submittal.
- If your project involves preparing an Environmental Impact Assessment, this NDDB consultation and determination should not be substituted for conducting biological field surveys assessing on-site habitat and species presence.
- This determination applies only to the project as described in the submission and summarized at the end of this letter. Please re-submit an updated Request for Review if the project's scope of work and/or timeframe changes, including if work has not begun by 4/3/2025.

The NDDB – New determination for the 27 Parsons Road Remediation at 27 Parson Ln, Durham as described in the submitted information and summarized at the end of this document is valid for two years from the date on this letter.

Natural Diversity Database information includes all information regarding listed species available to

us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, land owners, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Database and accessed through the ezFile portal as it becomes available.

This letter is computer generated and carries no signature. If however, any clarification is needed, or if you have further questions, please contact the following:

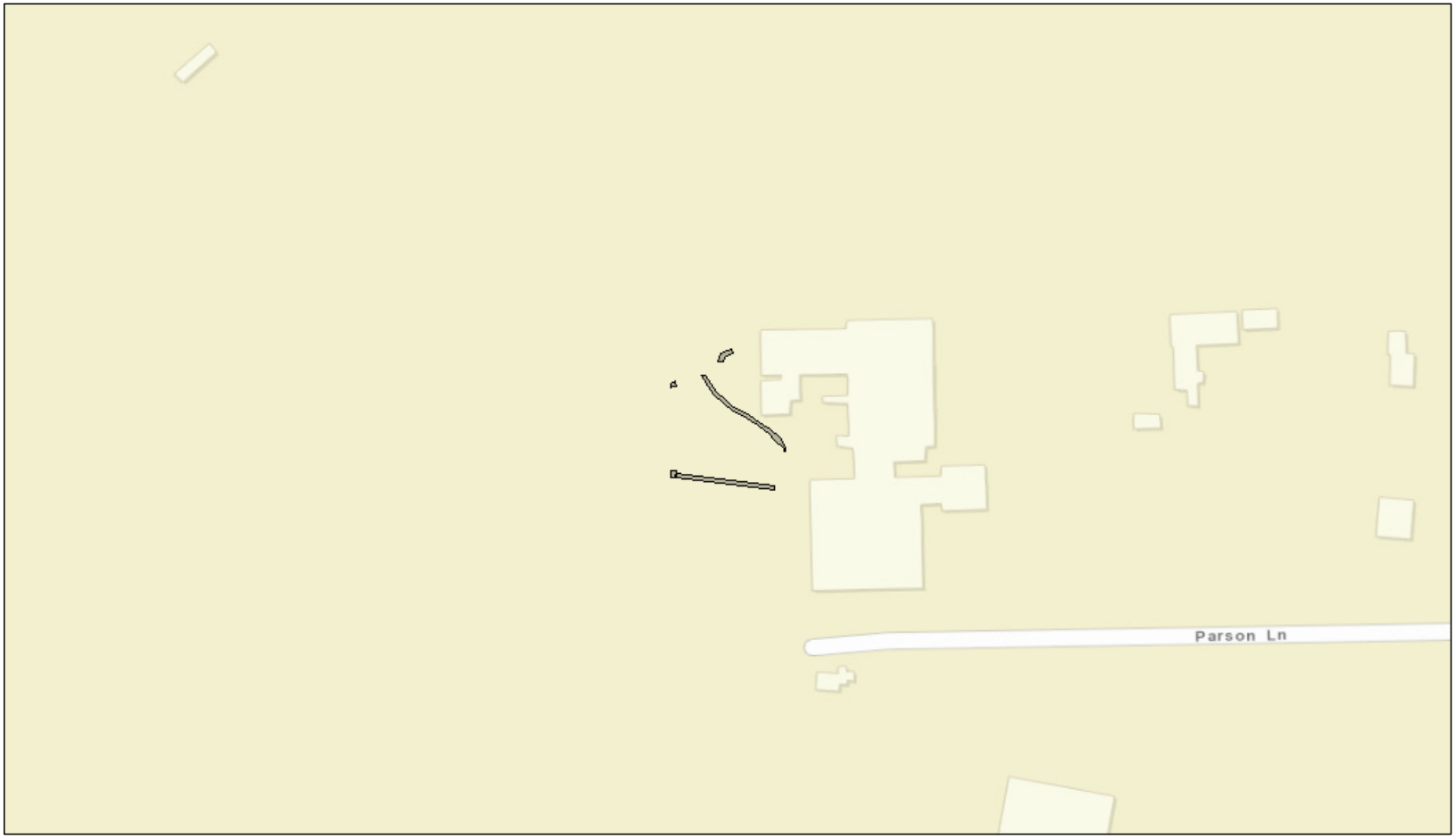
CT DEEP Bureau of Natural Resources
Wildlife Division
Natural Diversity Database
79 Elm Street, 6th floor
Hartford, CT 06106-5127
(860) 424-3011
deep.nddbrequest@ct.gov

Please reference the Determination Number provided in this letter when you e-mail or write. Thank you for submitting your project through DEEP's ezFile portal for Natural Diversity Database reviews.

Application Details:

| | |
|---|---|
| Project involves federal funds or federal permit: | Yes |
| Project involves state funds, state agency action, or relates to CEPA request: | No |
| Project requires state permit, license, registration, or authorization: | No |
| DEEP enforcement action related to project: | |
| Project Type: | Remediation |
| Project Sub-type: | Contaminated soil remediation |
| Project Name: | 27 Parsons Road Remediation |
| Project Description: | |

# 27 Parsons Road Remediation Map




April 3, 2023

1:2,399

0 0.02 0.04 0.08 mi

0 0.0325 0.065 0.13 km

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

# DURHAM INLAND WETLANDS & WATERCOURSES AGENCY PERMIT APPLICATION AND RELATED DOCUMENTS

(August 2024)

Weston & Sampson
westonandsampson.com
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
tel: 978.532.1900

# Inland Wetlands & Watercourses Permit

AUGUST 2024

## REMEDIATION: RELEASE OF MINERAL OIL DIELECTRIC FLUID (MODF)
## 27 PARSONS LANE & 105 MIDDLEFIELD ROAD

PREPARED FOR:
EVERSOURCE ENERGY

SUBMITTED TO:
DURHAM INLAND WETLANDS & WATERCOURSES AGENCY



55 Walkers Brook Drive, Suite 100, Reading, MA 01867
Tel: 978.532.1900

August 5, 2024

Durham Inland Wetlands & Water Courses Agency
P.O Box 428
Durham, CT 06422

*Re: Application for Permit*
*Remediation: Mineral Oil Dielectric Fluid (MODF) Release*
*27 Parsons Lane & 105 Middlefield Road*
*Durham, CT*

Dear Members of the Agency:

On behalf of The Connecticut Light and Power Company dba Eversource Energy (Eversource), Weston & Sampson Engineers, Inc. is hereby enclosing an Application for Permit submittal (including plans) to fulfill the requirements of Section 22a-39(m) of the General Statutes of Connecticut and section 22a-39-14 of the Regulations of Connecticut State Agencies submittal requirements and the Town of Durham submittal requirements. This submittal is a formal application for the remediation work at 27 Parsons Lane and 105 Middlefield Road in Durham, CT.

As part of the filing, we have attached the following:

Appendix A: Project Description
Appendix B: Remedial Action Plan Approved by CTDEEP
Appendix C: Project Maps
Appendix D: Applicable Technical Specifications
Appendix E: Wetlands Memorandum
Appendix F: Photos
Appendix G: Property Access Documents

If you have any questions regarding this submittal, please contact me at (978) 532-1900.

Very truly yours,

WESTON & SAMPSON

Alexandra Gaspar
Environmental Scientist

Connecticut Department of ENERGY & ENVIRONMENTAL PROTECTION

GIS CODE #: ___ ___ ___ ___ ___ ___ ___ ___ ___
For DEEP Use Only

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# Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete and mail this form in accordance with the instructions.
If completing by hand - please print and use the pdf version.
Incomplete or incomprehensible forms will be mailed back to the municipal inland wetlands agency.

## PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: **Click Here for Year** month: **Click Here for Month**
2. CHOOSE ACTION TAKEN (see instructions for code): **Click Here to Choose a Code**
3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:

   (type name) _____ (signature) _____

## PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (type name): **Durham**
   does this project cross municipal boundaries (check one)? yes ☐ no ☒
   if yes, list the other town(s) in which the activity is occurring (type name(s)): _____, _____
6. LOCATION (click on hyperlinks for information): USGS quad map name: **Durham** or quad number: **82**
   subregional drainage basin number: _____
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (type name): **Eversource, Andrew Blicharz**
8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (type information): **MODF Release Remediation: 27 Parsons Lane & 105 Middlefield Road**
   briefly describe the action/project/activity (check and type information): temporary ☒ permanent ☒ description: _____
   **This project proposes to remediate sediment impact resulting from a release of mineral oil dielectric fluid (MODF) containing polychlorinated biphenyls (PCBs) at 27 Parsons Lane in Durham,**
9. ACTIVITY *PURPOSE* CODE (see instructions for code): **P**
10. ACTIVITY *TYPE* CODE(S) (see instructions for codes): **2**, **Click for Code**, **Click for Code**, **Click for Code**
11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, type acres or linear feet as indicated):
    wetlands: **0** acres open water body: **0** acres stream: **31.00** linear feet
12. UPLAND AREA ALTERED (type acres as indicated): **0.06** acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (type acres as indicated): **0.00** acres

DATE RECEIVED: **PART III: To Be Completed By The DEEP** DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO FORM CORRECTED / COMPLETED: YES NO




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DURHAM INLAND WETLANDS AND WATERCOURSES AGENCY

APPLICATION FOR PERMIT
(Inland Wetlands and Watercourses Act - Public Act 155)

General information to be supplied by all applicants for a permit:

1. Name of Applicant Andrew Blicharz, Eversource
   Address 107 Selden St BMN2 Berlin, CT 06037
   x Indicate if other than property owner.
   Applicant's interest in property (lessee, licensee, etc.)

2. Name of Property Owner Parson Ln Associates LLC & Christopher and Eva Ross
   Address 27 Parsons Ln & 105 Middlefield Rd

3. Location of Property 16-7, 15-12
   Include lot number as shown on Tax Assessor's Map

4. Description of proposed activity and location of property: stream remediation
   Include listing of all proposed regulated activities.

5. Number of areas of wetland included in application: 0
   Include soil drainage classification(s) or natural soils group classification (s).

The applicant understands that this application is to be considered complete only when all information and documents required by the Agency have been submitted.

The undersigned warrants the truth of all statements contained herein and in all supporting documents according to the best of his knowledge and belief.

This form received by Agency

Date _____

By _____

Andrew Blicharz
Applicant

Authorized Agent

55 Walkers Brook Dr, Suite 100
Address

Reading MA 01867

Telephone # 978-532-1900

Supporting documents completed and received:
Date _____
By _____

# APPENDIX A

**PROJECT DESCRIPTION**

**Background**

This project proposes to mitigate impact resulting from releases of mineral oil dielectric fluid (MODF) containing polychlorinated biphenyl (PCB) that occurred at 27 Parsons Lane in Durham, Connecticut (CT) in 2018. The releases affected a nearby stream on the northwestern corner of the 27 Parsons Lane property and a western abutting property at 105 Middlefield Road in Durham, CT.

**Site Description**

The Site consists of two adjoining parcels at 27 Parsons Lane and 105 Middlefield Road totaling 18.14 acres located in the northern section of Durham, CT.

The 27 Parsons Lane property is a 5.05-acre parcel of land located at the end of Parsons Lane. It is improved with an irregular-shaped industrial/commercial building and small detached garage located in the central portion of the property. There is a mixture of dirt and paved parking areas on the southern, eastern, and western sides of the building, there are woodlands and an overgrown pond on the southern tip of the property, and there is a small stream on the northwestern corner of the property that is wooded and overgrown with dense vegetation. The parcel is identified by the Town of Durham Assessor as Parcel ID # 16-7.

The 105 Middlefield Road property is a 13.09-acre parcel of land located on the east side Middlefield Road. Much of the parcel is wooded and undeveloped except for the southwestern portion which contains a residential dwelling. The parcel contains several ponds (not included in the remediation areas), and the same stream mentioned above traverses across much of the property flowing generally in a northeast to southwest direction. The stream discharges into the Coginchaug River located approximately 2,600 feet (ft.) from the Site. The northern portion of the parcel borders the western side of the 27 Parsons Lane parcel, and it includes the area proposed for remediation. The parcel is identified by the Town of Durham Assessor as Parcel ID #15-12. The area surrounding the Site is a mixture of woodland and a combination of industrial, commercial, and residential uses.

**Scope of Work**

PCB concentrations in Site sediment exceed EPA TSCA and CTDEEP RSR criteria. The objective of this project is to complete targeted remediation of PCB-impacted sediment in the drainage channel for the 8-in. clay pipe and the stream located on the 27 Parsons Lane and 105 Middlefield Road parcels to reduce contaminant concentrations below TSCA and RSR criteria. Accomplishing this work will allow for the closure of the MODF spill incident.

The remedial approach will involve removing the PCB-impacted sediment by mechanical equipment and disposing of the remediation waste off-site at a permitted disposal facility. Verification sampling will be performed in the removal areas and the samples will be analyzed for PCBs to measure the effectiveness of the remedial actions. This process (i.e. remove impacted sediment followed by sampling and testing) will be repeated if verification sample results reveal residual PCB impacts exceeding specified cleanup goals. Once favorable test data is received for the removal areas, the remedial actions will be considered complete allowing for the backfilling and restoration of the drainage channel and stream to match pre-existing conditions. All work will be performed using industry-accepted practices and will comply with

applicable local, state, and federal permit requirements. Eversource is targeting the completion of this work during the summer or fall to coincide with the dry time of year to minimize the complications associated with excessive stream flow events, and generation of wastewater requiring off-site disposal at a permitted disposal facility.

The goal of the project is to accomplish the remedial activities at the Site in accordance with applicable federal and state regulations, be protective of human health and the environment, and avoid the need for constructing an engineered control (cap) or institutional control (land use restriction) on the affected areas. The intermittent stream involved in the remediation is considered a sensitive area receptor. Eversource submitted to CTDEEP a Request for Natural Diversity Data Base (NDDB) State Listed Species Review on April 3, 2023 (filing #97254). CTDEEP's review concluded there were no extant populations of Federal or State Endangered, Threatened or Special Concern species (RCSA Sec. 26-306) within the proposed remediation area. Eversource appreciates the importance and significance of the Durham Meadows Wildlife Management Area that lies approximately ½-mile downstream of the release area because it provides habitat for a variety of animal species including an NDDB-identified species of concern (the northern leopard frog). In 2022, a herpetologist conducted a Site visit to review habitat conditions in the field and assess the suitability of the targeted remediation areas for the NDDB-listed leopard frog. The herpetologist did not observe the NDDB-listed frog or suitable habitat (open, grassy habitats either along the floodplain of a large stream or river, or in wetlands around the margins of large lakes) within the proposed remediation areas. These observations corroborate the findings of the April 3, 2023 NDDB review.

The proposed remedial work will also be performed to comply with TSCA's Performance Based PCB Cleanups in accordance with Title 40 CFR Section 761.61(b). Grid verification sampling of the removal areas will be performed in accordance with 40 CFR 761.61 Subpart O. A cleanup standard of 0.5 mg/kg will be established for this project to comply with TSCA regulations, CTDEEP RSR criteria specified in Connecticut General Statutes (CGS) Sections 22a-133k-1 through 22a-133k-3, and satisfy recommendations provided in a July 21, 2022 CTDEEP interoffice memo prepared following the Department's review of the 2021 Screening-Level Ecological Risk Assessment (SLERA) report.

**Environmental Considerations**

Impacts from the proposed project will be to the waterway and bank of the small stream that discharges to the Coginchaug River. This impact includes approximately 166 SF of excavated soil. While resources will be impacted, the work will result in an overall improvement of the stream, as the purpose is to remove PCB contaminated soil. During construction, sandbag dams will be utilized so that work can be performed in the dry. Work will only occur on one side of the stream at a time, to ensure that flow is maintained throughout the duration of the project.

In addition to sandbag dams, the project proposes the construction of bypass piping to discharge past remediation areas.

Erosion controls such as straw wattles, silt fencing, catch basin inlet protection shall be used for the duration of the project. At a minimum, the contractor shall install straw wattles and silt fencing as shown on this drawing and at any other locations required to keep surface water runoff within the limits of work. Erosion and sediment control measures shall be furnished,

# APPENDIX B

REMEDIAL ACTION PLAN (RAP)
OMITTED TO REDUCE FILE SIZE

# APPENDIX C