

Fill Management Plan

Fish Road Reclamation Project

Off Fish Road, Assessor Map 229, Lot 158
Dudley, Massachusetts

Phase 1 Area Reclamation

Revised: September 22, 2020



W. L. French Excavating Corporation

14 Sterling Road

North Billerica, MA 01862

(978)663-2623



SITE DEVELOPMENT • ENVIRONMENTAL REMEDIATION • SOIL MANAGEMENT

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Introduction

This Fill Management Plan was prepared by W.L. French Excavating Corp. (W.L. French) in support of the Fish Road Reclamation Project located off Fish Road in Dudley, Massachusetts. The site locus is shown on **Figure 1**. Several areas of the property have previously been mined and quarrying operations are still active. Areas of the property that have been mined will be reclaimed and restored in several phases. The Phase 1 Area of the reclamation and subject of this Fill Management Plan (FMP) is shown on the Proposed Grading Plan included as **Figure 2**. Phase 1 of the reclamation project will involve the import of up to approximately 555,000 tons of soil under an Administrative Consent Order (ACO) for COMM-15-001; *Interim Policy on the Reuse of Soil for Large Reclamation Projects*. Refer to **Figure 3** for the Existing Topographic Plan.

Anticipated sources of fill material include large volumes of excess soil from excavation and construction projects in Massachusetts with elevated levels of naturally occurring arsenic. The intended fill materials include native and reworked sand, gravel, rock and clay. It is anticipated that Phase 1 of the reclamation project will take approximately 5 years to complete based on available sources of fill materials.

Soil intended for reuse in the filling operation must meet Acceptance Criteria established for this location. Testing of soil prior to acceptance and/or additional documentation of the soil source(s) with background information is required and is described herein.

This plan has been discussed with Massachusetts Department of Environmental Protection (MassDEP) personnel and various municipal officials from the Town of Dudley including the Board of Selectmen, Board of Health, and Conservation Commission. These discussions provided relevant information regarding the filling operations associated with the reclamation project described within this plan. Therefore, these officials have general awareness of this project and ongoing site activities.



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Parties Involved

Several parties will be involved with the placement of fill material associated with the Fish Road Reclamation Project.

Project Location:

Fish Road Reclamation Project
Off Fish Road
Assessor Map 229, Lot 158
Dudley, Massachusetts 01571

Project Proponents

Rampco French Joint Venture, LLC (FID 001221252)
14 Sterling Road
North Billerica, Massachusetts 01862

Soil Acceptance, Approvals, and Management/Oversight of Filling Operations:

W.L. French Excavation Corporation
14 Sterling Road
North Billerica, Massachusetts 01862
Phone: 978-663-2623
William L. French Jr., President
Jarrett Everton, Director of Environmental Services
Email: jeverton@wlfrench.com

Property Owner:

James E. Zajac and Cressa L. Zajac, Trustees
146 SE Crosspoint Drive
Port St. Lucie, Florida 34983

Project Daily Filling Operations Manager:

Rampco Construction Co., Inc.
120 Schofield Avenue
Dudley, Massachusetts 01571

Independent LSP Review and Approval of Submittal Packages:

Benson R. Gould, LSP, LEP
CMG Environmental, Inc.
67 Hall Road, Sturbridge, Massachusetts 01566
Phone: 774-241-0906



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Third Party QAQC Inspector:

Jeff Larson, LSP, LEP
EnviroTrac Ltd.
169 Daniel Webster Highway
Nashua, NH
508-517-2124

Emergency Contact:

Rampco Construction Co., Inc.
120 Schofield Avenue
Jonathan Androlewicz
508-400-3317

Site Description

The fill operations associated with the Fish Road Reclamation Project will occur at the Fish Road Gravel Pit located off Fish Road in Dudley, Massachusetts. The Phase 1 Area includes 6 acres that is located in the Southern portion of the 176-Acre property. The property is located in the southwestern portion of Dudley near the border with Southbridge, Massachusetts and Woodstock, Connecticut.

The Fish Road Reclamation Project site is readily accessed from Fish Road via West Dudley Road. Route 131 (Southbridge Road) is located approximately 0.9 miles south of the entrance to the Fish Road Reclamation Project site. Access to Interstate 395 is located approximately 8.5 miles east of the project site via Route 131 and Route 197. Access to Interstate 84 is located approximately 8 miles to the west of the project site via Route 131.

Wooded areas are located on the northern, western and eastern portions of the property. An agricultural hay field is located in the southern portion of the site abutting the Quinebaug River. The Grand Trunk Rail Trail traverses the southern portion of the site, just north of the Phase 1 Area.

The Dudley Assessor's Office records identify the Fish Road Reclamation Project by parcel Map 229, Lot 158. The Assessor's Office indicates that the parcel is owned by a trust operated by James E. Zajac and Cressa L. Zajac. The Fish Road Reclamation Project site consists of an irregular-shaped parcel of land with a total plan area of approximately 176 acres zoned for industrial use (IND-130) and Adult Entertainment to the north of the Grand Trunk Rail Trail and residential use (RES-87) to the south.



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A high yield aquifer is located on the property and abuts the Phase 1 Area to the north as shown on the MassDEP BWSC Phase 1 Site Assessment Map included as **Figure 4**. It should be noted that the aquifer is not located in a groundwater protection area according to the Town of Dudley Zoning Map. Other resource areas were not identified within the Phase 1 Area of filling and grading. A FEMA 100-year Floodplain is located in the southern portion of the property along the bank of the Quinebaug River. No MassDEP Disposal Sites were identified at the site or within approximately 0.25 miles.

The nearest public water supply wells are two non-community groundwater wells (2080004-02G & 2080005-01G) located approximately 3,000 feet to the northeast. There are no other public water supply wells in proximity to the property according to the MassDEP GIS map. Private wells are also in operation in Dudley. Specifically, the nearest private wells are located approximately 500 feet to the south of the Phase 1 area across the Quinebaug River along Southbridge Road.

The Phase I Project area is located in an area without municipal water supply, which means DEP categorizes it as a 'Potential Drinking Water Source Area' per the Massachusetts Contingency Plan (MCP) definition at 310 CMR 40.0006(12). This means that the applicable groundwater reporting category is RCGW-1 and soil reporting category RCS-1.

Wetlands at the property were delineated and flagged in the field by Three Oaks Environmental. An Abbreviated Notice of Resource Area Delineation (ANRAD) was filed with MassDEP on May 1, 2019 for construction activities associated with the Phase I Area. An Order of Resource Area Delineation (ORAD) was subsequently issued by the Dudley Conservation Commission. Phase I construction and reclamation activities will not occur within 50' of wetlands located at the property. Erosion control measures have been installed at the site to protect wetland resources.

A second Request for Determination was filed with the Dudley Conservation Commission on November 10, 2019 regarding resource areas in the Phase II Area, which is located north of the Phase I area across the rail trail. All wetland resources and intermittent streams in the Phase II Area were determined to be non-jurisdictional due to historic mining operations and a Negative Determination was subsequently issued by the Dudley Conservation Commission. Reclamation activities in the Phase II Area are not included in this Fill Management Plan and will be approved at a later date.

A review of the Massachusetts Natural Heritage & Endangered Species Program (NHESP) online database was conducted. The Phase 1 Area is not located within a mapped Priority Habitat for Rare Species or an Estimated Habitat for Rare Species. There are several potential vernal pools mapped at this property, although none are located within the Phase 1 Area.



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A total of four groundwater wells were installed in conjunction with the Fish Road Reclamation project to establish background levels in groundwater at the project site. The approximate locations of the proposed wells are shown on the attached **Figure 2**. Three of the wells, MW-1, MW-2 and MW-3 were installed as overburden monitoring wells within the Phase 1 Area. Monitoring well MW-4 was installed in the high yield aquifer as a bedrock monitoring well. Groundwater flow appears to be to the south-southeast towards the Quinebaug River.

The groundwater monitoring wells were sampled in November 2018 and will be sampled on an annual basis through the duration of the Fish Road Reclamation Project. A final sampling event will be performed two years after completion of the Fish Road Reclamation Project.

Groundwater analytical results from the November 2018 sampling event indicate that arsenic was detected in bedrock monitoring well MW-4 at 14 µg/L, which exceeds the RCGW-1 standard of 10 µg/L. Soluble arsenic identified in the sample collected from bedrock monitoring well MW-4 is consistent with the known condition of naturally-occurring elevated arsenic in site soil (and bedrock) and is thus exempt from DEP reporting per 310 CMR 40.0317(22).

Additionally, *bis*(2-ethylhexyl)phthalate (a/k/a diethyl hexyl phthalate, or DEHP) was detected in monitoring well MW-3 and MW-4 during the initial November 2018 sampling event. Subsequent sampling of MW-3 and MW-4 in December 2018 and January 2019 did not identify any detection of DEHP in the samples collected. It is believed that the DEHP detection was a result of the new well construction rather than contamination in the groundwater. DEHP is a common plasticizer used in many plastics including PVC, which was used to construct the monitoring wells.

Soil Acceptance Criteria

Soil Acceptance Criteria have been established for various constituents in soil intended for use as fill material at the Fish Road Reclamation Project in compliance with the Similar Soils Provision. The Acceptance Criteria were established to be protective of surrounding natural resource areas including nearby private wells (<500'), wetland areas and the nearby Quinebaug River, construction workers at the site, visitors, and surrounding residents.

Arsenic testing has been conducted in the Phase 1 area of the property to establish background concentrations because the property is known to be located in the "arsenic belt" of Worcester County. Laboratory results confirmed arsenic is present in the Phase 1 area at concentrations ranging from 21.6 mg/kg to 105 mg/kg. As such, the maximum background concentration of arsenic has been established at 105 mg/kg. The acceptance criteria of less than 100 mg/kg for arsenic is applicable only to soil containing naturally occurring arsenic



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that meets the notification exemption at 310 CMR 40.0317(22), which applies to arsenic in Boston Blue Clay or arsenic in an area documented by the U.S. Geological Survey or in other scientific literature as an area of elevated arsenic measured in soil or groundwater that (a) is consistently present in the environment at and in the vicinity of the sampling location; (b) is solely attributable to natural geologic or ecologic conditions; and (c) has not been mobilized or transferred to another environmental medium or increased in concentration in an environmental medium as a result of anthropogenic activities.

Ash and/or Solid Waste must only be present in de minimus quantities not to exceed 5% by volume. Any soil with arsenic detected equal to or greater than 20 mg/kg and is not “exempt from reporting” to MassDEP, will be treated as “remediation waste” and not accepted at the site. All soil originating from out of state shall have a maximum arsenic concentration less than 20 mg/kg to be considered for acceptance. No exemptions apply for out of state soils.

The southern portion of the Phase 1 Area of the site is located within 500 feet of residential property and therefore RCS-1 standards apply. Accordingly, in consideration of the Similar Soils Policy, the less than RCS-1 Acceptance Criteria have been established and are presented in “Table 1 – Phase I Acceptance Criteria”. It is likely that subsequent phases of the reclamation project will meet less than RCS-2 criteria, which will be approved under a separate ACO at a later date.

Soil Chemical Testing Requirements

Required Test Parameters

Test parameters required on soil to be considered for acceptance include:

- Volatile Organic Compounds (EPA 8260) Low-Level;
- Semi-volatile Organic Compounds (EPA 8270 full list);
- Metals: MCP 14 metals;
- PCBs (<0.1 reporting limit);
- Total Petroleum Hydrocarbons (summation of EPH Fractions may be substituted);
- Hexavalent Chromium if Total Chromium > 100 mg/kg;
- pH/Corrosivity;
- Specific Conductance (conductivity) (may be excluded or limited based on site history);
- Field Screening for Total Organic Vapors (PID following MassDEP Jar Headspace Screening Procedure based upon an isobutylene response factor);



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- Herbicides (may be excluded or limited based on site history);
- Pesticides (may be excluded or limited based on site history);
- Ignitibility/Flash point (may be excluded or limited based on site history);
- Reactive Cyanide (may be excluded or limited based on site history);
- Reactive Sulfide (may be excluded or limited based on site history);
- TCLP for any analyte exceeding EPA TCLP Trigger Values (20 times rule);

Additional testing may be required as deemed prudent based on soil source site history. Other potential constituents based on location-specific history include asbestos, amenable cyanide, dioxins, per- and polyfluoroalkyl substances (PFAS). Perchlorate testing for blasted or excavated ledge/bedrock is required unless technical justification is provided by the LSP/QEP for the Generator. The LSP/QEP should be familiar with the "Interim Guidance on Sampling and Analysis for PFAS at Disposal Sites Regulated under the Massachusetts Contingency Plan dated June 19, 2018 and updated December 27, 2019" and can be found here: <https://www.mass.gov/doc/interim-guidance-on-sampling-and-analysis-for-pfas-at-disposal-sites-regulated-under-the/download>

Soil and slurry mixtures containing bentonite and/or Portland cement will not be accepted. Soil and slurry mixtures containing polymer based additives at <1% by volume will be considered on a case by case basis after evaluation of the additives Safety Data Sheet (SDS).

Samples must be analyzed in accordance with MassDEP Compendium of Analytical Methods. Reporting limits (RLs) for analyses must be appropriate for comparison to Acceptance Criteria. The use of routine VOCs and SVOC analysis with typical RLs consistent with CAM Methods and 310 CMR 40.0000 is sufficient as long as the QEP/LSP-of-Record provides technical justification that the soil being tested is not likely to contain the less common VOC and SVOC compounds (such as 1,4-dioxane and various chlorinated VOCs/SVOCs) and based on a review of other relevant site specific information. All RLs or Method Detection Limits (MDL's) must be equal to or less than the applicable RCS-1 standards except for the less common VOCs and SVOCs discussed above.



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Required Chemical Testing and Frequency

Testing is required at the minimum frequencies below for reuse at the Fish Road Reclamation Project site:

	General Source/Origin Description	Minimum Test Profile Frequency
1	Naturally Deposited Soil containing no fill materials. Excludes soil from sources meeting Categories 2, 3, 4, 5 or 6 criteria below.	1 test profile per 1,000 cubic yards (1,500-1,700 tons) for initial review.
2	Naturally Deposited Soil from areas of known or suspected naturally occurring high background levels of constituents and containing no fill materials. Excludes soil from sources meeting Categories 3, 4, 5 or 6 criteria below.	1 test profile per 1,000 cubic yards (1,500-1,700 tons) for initial review.
3	Naturally Deposited Marine Soils and Boston Blue Clay containing no fill materials. Excludes soil from sources meeting Categories 5 or 6 criteria below.	1 test profile per 1,000 cubic yards (1,500-1,700 tons) for initial review.
4	Fill Materials: Soil, sediments, rock and/or stone obtained off site that was used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real property. This category includes, but is not limited to urban and non-urban fill, and any natural soil/fill mixture.	1 test profile per 500 cubic yards (750-850 tons) for initial review. Additional test parameters such as cyanide and asbestos may be required.
5	Soil from Industrial, Commercial or Manufacturing site with history of any of the following: tannery, textiles, chemical/paint production, circuit board manufacturing, plating/metal finishing, foundry operations, coal gasification, dry cleaning, salvage yards, pesticide/herbicide use, storage or distribution. A LSP, LSRP or LEP must provide a report detailing why such soils conform to the Fish Road Reclamation Project.	1 test profile per 500 cubic yards (750-850 tons) for initial review. Additional test parameters based on site history may be required.
6	Soil from sources not otherwise described above where historic test data indicate potential exceedance of any acceptance criteria or where past use or storage of OHM at more than household quantities.	1 test profile per 500 cubic yards (750-850 tons) for initial review. Additional test parameters based on historic test data may be required.



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7	Rock: Blasted or excavated ledge or bedrock.	One test for perchlorate per 500 cy, unless Generator demonstrates that no perchlorate blasting agents were used. One geochemical characterization profile per 500 cy including Acid Base Accounting and Net Acid Generation Potential unless Generator demonstrates that the rock is not known or suspected to contain sulfide minerals.
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For acceptance purposes, soil density will be considered 1.5 tons per cubic yard for soil sampled from a stockpile, and no greater than 1.7 ton per cubic yard for soil sampled in-situ via borings or test pits. Further technical justification will be required for acceptance of soil with assumed density greater than 1.7 ton per cubic yard.

Test Data Quality and Usability

Test data provided for review and acceptance must be considered current. If aged data (greater than 1 year old) is to be utilized for acceptance, a statement from the qualified environmental professional making the submittal must be provided indicating site conditions have not changed since collection of data and that no documented releases that may impact site conditions have occurred since data was collected.

Prior to submittal, the environmental professional making the submittal must perform a QA/QC evaluation of the data to document that data is representative and usable for its intended purpose.

Field Screening Requirement

Soil must be field screened for Total Organic Vapors following the MADEP Jar Headspace Screening Procedure (MADEP Policy #WSC-94-400 Attachment 2, modified to be based upon an isobutylene response factor rather a Benzene standard). Soil must be field screened at the time of excavation, stockpiling or load out to the Fish Road Reclamation Project at a frequency of 1 field screening test per approximately 50 cubic yards of soil. Soil must contain total organic vapors (TOV) less than 5 parts per million volume (ppmv) by the jar headspace screening procedure to meet Acceptance Criteria. Natural organic soils which exhibit TOV screening levels greater than 5 ppmv above ambient background may be considered for acceptance on a case-by-case basis provided the following: results of analytical testing, particularly VOC analysis, identifies no exceedances of acceptance criteria; source of elevated TOV screening



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levels can be attributed to a source other than oil or hazardous material (such as hydrogen sulfide interference on PID). All soil proposed for reuse shall not have an unpleasant odor.

Visual Requirement

Soil will exhibit no indication of staining or other discoloration indicative of a release or impact of oil or hazardous material or other nuisance conditions. Soil and fill materials approved for use at the property shall contain no more than 5% Asphalt, Brick and Concrete ("ABC") material. Any such ABC material must measure less than 6 inches in any dimension and acceptance of such soil will be considered on a case-by-case basis. Soil and fill materials approved for use at the property may contain de-minimus quantities, not to exceed 5%, of ash and/or Solid Waste (e.g. Municipal Solid Waste and/or Construction and Demolition Waste) as defined in 310 CMR 16.00 and 310 CMR 19.000. The acceptance of Remediation Waste, as defined at 310 CMR 40.0006, is prohibited.

QA/QC Requirement

Each month the Independent Third Party Inspector will randomly select a load arriving to the Fish Road Reclamation Project for a QA/QC Inspection and instruct them to dump in the designated QA/QC area. The Third Party Inspector will inspect the load visually, screen the soil with a PID and collect a soil sample. Loads arriving with material not meeting acceptance criteria or determined to contain contaminants at levels at or exceeding acceptance criteria based on QA/QC sampling will be rejected and removed from the site at the expense of the Generator of that material. Loads not meeting acceptance criteria at the time of delivery to the project site due to debris, odors, or other nonconformance with Acceptance Criteria will be rejected prior to off-loading or reloaded immediately by W.L. French. Such loads will be removed from the project site immediately in the truck they were delivered in. Should QA/QC testing indicate soil as delivered is not below Acceptance Criteria, then the Generator of that soil and the party contracting with W.L. French for placement of soil at the site will promptly remove such soil from the project site. Should the Generator and/or contracting party not promptly remove unacceptable soil, W.L. French will promptly act to remove that soil from the project site. W.L. French will pursue cost recovery from the Generator and/or the contracting party for all costs associated with removal from the site if soil is not below all Acceptance Criteria. Additional soil will not be accepted from a source where soil failed a monthly QA/QC test or soil was rejected from the site upon arrival until an appropriate resolution is reached.



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Soil Submittal and Approval Process

A Soil Submittal Package must be provided by representatives of each soil source/origin for review and approval by representatives of the Fish Road Reclamation Project.

A complete package is to be provided to:

W.L. French Excavating Corporation
14 Sterling Road
Billerica, MA 01862
Attention: Jarrett Everton 978-663-2623
Email: jeverton@wlfrench.com

W.L. French will perform a preliminary review to establish whether the submittal is complete and soil is appropriate for reuse as fill material at the Fish Road Reclamation Project site. The submittal will then be forwarded to the independent LSP contracted by W.L. French to perform the final review and approval.

Upon completion of the initial review, supplemental information, clarification, or additional delineation/frequency testing can be requested prior to acceptance. The source making the submittal must provide the information, clarification, or additional test data as requested for the approval process to proceed.

The review process will typically take from 2 to 4 business days depending on the number of submittals in the queue for review, the amount of soil requested for approval, and available capacity.

Site Access

The Fish Road Reclamation Project site is readily accessed from Fish Road via West Dudley Road. Route 131 (Southbridge Road) is located approximately 0.9 miles south of the entrance to the Fish Road Reclamation Project. Access to Interstate 395 is located approximately 8.5 miles east of the project site via Route 131 and Route 197. Access to Interstate 84 is located approximately 8 miles to the west of the project site via Route 131.

Truck drivers that fail to follow the approved routes will be given one warning. Drivers that repeat use of an unauthorized trucking route will be directed not to return to the Fish Road Reclamation Project site with any additional loads.



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Normal operating hours are approximately 7:00 AM to 4:00 PM Monday through Friday. Some allowance can be made until 5 pm for late loads with advanced notice. Saturdays are available for an additional fee with advanced notice.

Dust and Sediment Control Plan

The Fish Road Reclamation Project will use the following measures to mitigate dust and sediment at the project site:

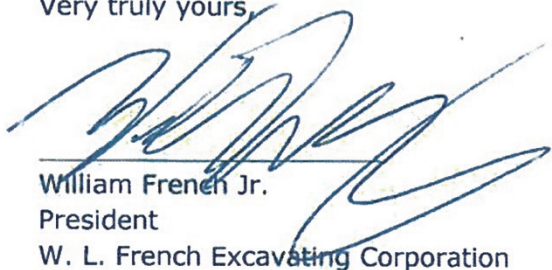
- A water truck will be utilized as needed to control dust;
- Gravel tracking pad has been installed at the entrance to the site and will be replaced as needed to control sediment tracking on town roadways;
- Roads will be swept as needed to control dust and soil from tracking on to public roadways;
- Filling operations will be suspended when winds exceed 40 miles per hour;
- Erosion controls including silt fence and hay bales have been installed at a minimum of 50' from bordering vegetated wetlands. These erosion controls will be inspected monthly during the Third Party QAQC inspections and as required per the SWPPP.

Revisions to Fill Management Plan

This FMP has been drafted for Phase 1 Area Reclamation activities only and will be modified as needed to meet changing project objectives, environmental regulations, or other requirements. Updates to this plan will be noted on the cover page.

Soil Acceptance Criteria may be modified as the project proceeds to meet changing regulatory criteria such as Reportable Concentrations, cleanup standards, background levels, or other guidelines published by MassDEP.

Very truly yours,



William French Jr.
President
W. L. French Excavating Corporation



Benson R. Gould
Licensed Site Professional
CMG Environmental, Inc.



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Table 1

Soil Acceptance Criteria

**Fish Road Reclamation Project
Dudley, MA
Phase I Acceptance Criteria
Table 1**

Test	Parameter	Fish Road <RCS-1 Acceptance Criteria	MassDEP RCS-1 Reportable Concentration
PID (ppmv)	Total Organic Vapors	5	NE
VOCs (mg/kg)	Acetone (2-propanone)	0.6	6
	Acrylonitrile	10	100
	Benzene	0.2	2
	Bromobenzene	10	100
	Bromochloromethane	—	NE
	Bromodichloromethane	0.01	0.1
	Bromoform	0.01	0.1
	Bromomethane	0.05	0.5
	2-Butanone (MEK)	0.4	4
	<i>n</i> -Butylbenzene	—	NE
	<i>sec</i> -Butylbenzene	—	NE
	<i>tert</i> -Butylbenzene	10	100
	Carbon Disulfide	10	100
	Carbon Tetrachloride	0.5	5
	Chlorobenzene	0.1	1
	Chloroethane	10	100
	Chloroform	0.02	0.2
	Chloromethane	10	100
	2-Chlorotoluene (<i>ortho</i>)	10	100
	4-Chlorotoluene	1	10
	1,2-Dibromo-3-chloropropane	1	10
	Dibromochloromethane	0.0005	0.005
	1,2-Dibromoethane (EDB)	0.01	0.1
	Dibromomethane	50	500
	1,2-Dichlorobenzene (<i>o</i> -DCB)	0.9	9
	1,3-Dichlorobenzene (<i>m</i> -DCB)	0.3	3
	1,4-Dichlorobenzene (<i>p</i> -DCB)	0.07	0.7
	<i>trans</i> -1,4-Dichloro-2-butene	1	10
	Dichlorodifluoromethane	100	1,000
	1,1-Dichloroethane	0.04	0.4
	1,2-Dichloroethane	0.01	0.1
	1,1-Dichloroethene	0.3	3
	<i>cis</i> -1,2-Dichloroethene	0.01	0.1
	<i>trans</i> -1,2-Dichloroethene	0.1	1
	1,2-Dichloropropane	0.01	0.1
	1,3-Dichloropropane	50	500
	2,2-Dichloropropane	0.01	0.1
	1,1-Dichloropropene	0.001	0.01
	<i>cis</i> -1,3-Dichloropropene	0.001	0.01
	<i>trans</i> -1,3-Dichloropropene	0.001	0.01
	Ethyl ether	10	100
	Ethylbenzene	4	40
	Hexachlorobutadiene	3	30
	2-Hexanone (MBK)	10	100
	Isopropylbenzene	100	1,000
	2-Isopropyltoluene (<i>ortho</i>)	—	NE
	4-Isopropyltoluene (<i>para</i>)	10	100
	Methyl Tertiary Butyl Ether (MTBE)	0.01	0.1
	4-Methyl-2-pentanone (MIBK)	0.04	0.4
	Methylene Chloride (DCM)	0.01	0.1
	Naphthalene	0.4	4
	<i>n</i> -Propylbenzene	10	100
	Styrene	0.3	3
	Tertiary butyl ether	10	100
	1,1,1,2-Tetrachloroethane	0.01	0.1
	1,1,2,2-Tetrachloroethane	0.0005	0.005
	Tetrachloroethene (PCE)	0.1	1
	Tetrahydrofuran	50	500
	Toluene	3	30
	1,2,3-Trichlorobenzene	—	NE
	1,2,4-Trichlorobenzene	0.2	2
	1,1,1-Trichloroethane (TCA)	3	30
	1,1,2-Trichloroethane	0.01	0.1
	Trichloroethene (TCE)	0.03	0.3
	Trichlorofluoroethane	—	NE
	Trichlorofluoromethane	100	1,000
	1,2,3-Trichloropropane	10	100
	1,2,4-Trimethylbenzene	100	1,000
	1,3,5-Trimethylbenzene	1	10
	Vinyl chloride	0.07	0.7
	<i>m</i> , <i>p</i> -Xylenes <i>o</i> -Xylenes Xylenes (total)	10	100
		10	100
		10	100
	1,4-Dioxane	0.02	0.2
	Diethyl ether	10	100
	Diisopropyl ether	10	100
	Ethyl tert butyl ether	—	NE
	Tert-amyl methyl ether	—	NE
TPH (mg/kg)	Total Petroleum Hydrocarbons Petroleum Identification (qualitative)	500	1,000

Notes

NE = No Established standard

All acceptance criteria are less than the concentration listed unless otherwise noted

Fish Road Reclamation Project
Dudley, MA
Phase 1 Acceptance Criteria
Table 1

Test	Parameter	Fish Road <RCS-1 Acceptance Criteria	MassDEP RCS-1 Reportable Concentration
SVOCs (mg/kg)	Acenaphthene	4	4
	Acenaphthylene	1	1
	Acetophenone	100	1,000
	Aniline	100	1,000
	Anthracene	10	1,000
	Benzo(a)anthracene	7	7
	Benidine	1	10
	Benzo(a)pyrene	2	2
	Benzo(b)fluoranthene	7	7
	Benzo(g,h,i)perylene	10	1,000
	Benzo(k)fluoranthene	10	70
	Benzoic acid	100	1,000
	Benzyl butyl phthalate	10	100
	bis (2-chloroethoxy)methane	50	500
	bis (2-Chloroethyl)ether	0.07	0.7
	bis (2-Chloroisopropyl)ether	0.07	0.7
	bis (2-Ethylhexyl)phthalate	9	90
	4-Bromophenyl phenyl ether	10	100
	Carbazole	—	NE
	4-Chloroaniline (<i>para</i>)	0.1	1
	2-Chloronaphthalene	100	1,000
	4-Chloro-3-methylphenol	100	1,000
	2-Chlorophenol	0.07	0.7
	4-Chlorophenyl phenyl ether	100	1,000
	Chrysene	20	70
	Dibenzo(a,h)anthracene	0.7	0.7
	Dibenzofuran	10	100
	3,3'-Dichlorobenzidine	0.3	3
	1,2-Dichlorobenzene (<i>o</i> -DCB)	0.9	9
	1,3-Dichlorobenzene (<i>m</i> -DCB)	0.3	3
	1,4-Dichlorobenzene (<i>p</i> -DCB)	0.07	0.7
	2,4-Dichlorophenol	0.07	0.7
	Diethyl Phthalate	1	10
	2,4-Dimethylphenol	0.07	0.7
	Dimethyl Phthalate	0.07	0.7
	Di- <i>n</i> -Butyl Phthalate	5	50
	4,6-Dinitro-2-methylphenol	5	50
	2,4-Dinitrophenol	0.3	3
	2,4-Dinitrotoluene	0.07	0.7
	2,6-Dinitrotoluene	10	100
	Di- <i>n</i> -Octyl Phthalate	100	1,000
	1,2-Diphenylhydrazine	5	50
	Fluoranthene	40	1,000
	Fluorene	10	1,000
	Hexachlorobenzene	0.07	0.7
	Hexachlorobutadiene	3	30
	Hexachlorocyclopentadiene	5	50
	Hexachloroethane	0.07	0.7
	Indeno(1,2,3-cd)pyrene	7	7
	Isophorone	10	100
	2-Methylnaphthalene	0.7	0.7
	2-Methylphenol (<i>o</i> -cresol)	50	500
	3&4-Methylphenol (<i>m</i> & <i>p</i> -cresol)	50	500
	Naphthalene	4	4
	2-Nitroaniline (<i>ortho</i>)	—	NE
	3-Nitroaniline (<i>meta</i>)	—	NE
	4-Nitroaniline (<i>para</i>)	100	1,000
	Nitrobenzene	50	500
	N-Nitrosodimethylamine	5	50
	N-Nitrosodi- <i>n</i> -propylamine	5	50
	N-Nitrosodiphenylamine	10	100
	2-Nitrophenol (<i>ortho</i>)	10	100
	4-Nitrophenol (<i>para</i>)	10	100
	Pentachloronitrobenzene	10	100
	Pentachlorophenol	0.3	3
	Phenanthrene	10	10
	Phenol	0.1	1
	Pyrene	40	1,000
	Pyridine	50	500
	1,2,4,5-Tetrachlorobenzene	100	1,000
	1,2,4-Trichlorobenzene	0.2	2
	2,4,5-Trichlorophenol	0.4	4
	2,4,6-Trichlorophenol	0.07	0.7
PCBs	No Aroclor identification	0.1	1

Notes

NT = Not Tested (for that parameter)

Total SVOCs must be less than 100

All acceptance criteria are less than the concentration listed unless otherwise noted

**Fish Road Reclamation Project
Dudley, MA
Phase 1 Acceptance Criteria
Table 1**

Test	Parameter	Fish Road <RCS-1 Acceptance Criteria	MassDEP RCS-1 Reportable Concentration
Total Metals (mg/kg)	Antimony	10	20
	Arsenic	20	20
	*Arsenic (naturally occurring)	*<100	NE
	Barium	375	1,000
	Beryllium	4	90
	Cadmium	20	70
	Chromium (total)	100	100
	Lead	200	200
	Mercury	3	20
	Nickel	150	600
	Selenium	5	400
	Silver	6	100
	Thallium	6	8
	Vanadium	225	400
	Zinc	500	1,000
Chlorinated Pesticides & Herbicides (mg/kg)	Alachlor	10	100
	Aldrin	0.008	0.08
	α-BHC	5	50
	β-BHC	1	10
	γ-BHC (Lindane, γ-HCH)	0.0003	0.003
	δ-BHC	1	10
	Chlordane	0.07	0.7
	4,4-DDD (p,p')	0.8	8
	4,4-DDE (p,p')	0.6	6
	4,4-DDT (p,p')	0.6	6
	Dieldrin	0.008	0.08
	α-Endosulfan (I)	0.05	0.5
	1-Endosulfan (II)	0.05	0.5
	Endosulfan Sulfate	"See listed constituents"	
	Endrin	1	10
	Endrin Aldehyde	1	10
	Endrin ketone	NE	NE
	Heptachlor	0.03	0.3
	Heptachlor Epoxide	0.01	0.1
	Hexachlorobenzene	0.07	0.7
	Methoxychlor	20	200
	Toxaphene	1	10
	2,4-D	10	100
	2,4-DB	10	100
	Dalapon	100	1,000
	Dicamba	50	500
	Dichlorprop	NE	NE
	Dinoseb	50	500
	MCPA	10	100
	MCPP	NE	NE
	2,4,5-T	10	100
	2,4,5-TP (Silvex)	10	100
Other Units (mg/kg)	Percent Solids	No Free Liquids	—
	pH (Standard Units)	5.0-9.0 S.U.	>2.0 or <12.5 S.U.
	Corrosivity (positive/negative)	Negative	Negative
	Specific Conductance (umhos/cm)	2,000	—
	Flashpoint (°F)	Non-Ignitable	Non-Ignitable
	Ignitability (°F)	>140 °F	>140 °F
	Cyanide Reactivity	<250	Non-Reactive
	Sulfide Reactivity	<500	Non-Reactive
	Reactivity (positive/negative)	None	Negative
	Amenable Cyanide ⁽¹⁾	3	30
	Asbestos ⁽¹⁾	ND	NE
	Dioxins ⁽¹⁾	0.0000002	0.000002
	Perchlorate Compounds ⁽¹⁾	0.01	0.1
	Per- and Polyfluoroalkyl Substances (PFAS) ⁽¹⁾	See individual constituents listed below	See individual constituents listed below
	Perfluorodecanoic Acid (PFDA) ⁽¹⁾⁽²⁾	0.00003	0.0003
	Perfluoroheptanoic Acid (PFHpA) ⁽¹⁾⁽²⁾	0.00005	0.0005
	Perfluorohexanesulfonic Acid (PFHxS) ⁽¹⁾⁽²⁾	0.00003	0.0003
	Perfluorononanoic Acid (PFNA) ⁽¹⁾⁽²⁾	0.000032	0.00032
	Perfluorooctanesulfonic Acid (PFOS) ⁽¹⁾⁽²⁾	0.0002	0.002
	Perfluorooctanoic Acid (PFOA) ⁽¹⁾⁽²⁾	0.000072	0.00072

Notes

NE = No Established standard

*The acceptance criteria of less than 100 mg/kg for arsenic is applicable only to soil containing naturally occurring arsenic that meets the notification exemption at 310 CMR 40.0017(22), which applies to arsenic in Boston Blue Clay or arsenic in an area documented by the U.S. Geological Survey or in other scientific literature as an area of elevated arsenic measured in soil or groundwater that (a) is consistently present in the environment at and in the vicinity of the sampling location; (b) is solely attributable to natural geologic or ecologic conditions; and (c) has not been mobilized or transferred to another environmental medium or increased in concentration in an environmental medium as a result of anthropogenic activities.

Herbicides or pesticides <10% of RCS-1 (and no known or potential source)

(1) Must analyze if considered to be a chemical of concern at generating site

(2) The LSP/QEP should be familiar with the "Interim Guidance on Sampling and Analysis for PFAS as Disposal Sites Regulated under the Massachusetts Contingency Plan dated June 19, 2018 and updated December 27, 2019" and can be found here: <https://www.mass.gov/doc/interim-guidance-on-sampling-and-analysis-for-pfas-at-disposal-sites-regulated-under-the/download>

All acceptance criteria are less than the concentration listed unless otherwise noted



SITE DEVELOPMENT • ENVIRONMENTAL REMEDIATION • SOIL MANAGEMENT

Soil Submittal Checklist and Profile Form

SOIL PROFILE FORM

FISH ROAD RECLAMATION PROJECT DUDLEY, MASSACHUSETTS



PROFILE NUMBER _____
(Assigned by W.L. French Excavating Corp.)

A. SITE INFORMATION:	
Name:	Contact:
Address:	Phone:
City:	State, Zip:
Release Tracking No. or Site ID No. (if applicable):	

B. GENERATOR INFORMATION:	
Name:	Contact:
Address:	Phone:
City:	State, Zip:

C. CONSULTANT INFORMATION:	
Company:	Contact:
Address:	Phone:
City:	State, Zip:

D. ESTIMATED SOIL QUANTITY:	
Tons:	Cubic yards:

E. LABORATORY ANALYSIS	
Check the following laboratory analyses performed on the material to be reused (check all that apply):	
<input type="checkbox"/> VOCs, SVOCs, TPH, PCBs	<input type="checkbox"/> pH
<input type="checkbox"/> MCP14 Metals	<input type="checkbox"/> Reactivity
<input type="checkbox"/> TCLP (if required by total levels)	<input type="checkbox"/> Herbicides
<input type="checkbox"/> Conductivity	<input type="checkbox"/> Pesticides
<input type="checkbox"/> Ignitability/Flash Point	<input type="checkbox"/> Other laboratory analysis performed:
<input type="checkbox"/> Field screening performed (describe below)	
<input type="checkbox"/> Attach data summary tables for all soil from source and laboratory reports for only applicable samples	

F. SITE HISTORY:	
<input type="checkbox"/> Check if extra sheet attached	
Current Use(s):	
Past Use(s):	
Check additional site history/uses below. Provide additional description as needed:	
Tannery <input type="checkbox"/> YES <input type="checkbox"/> NO	Salvage/Junk Yard <input type="checkbox"/> YES <input type="checkbox"/> NO
Textiles <input type="checkbox"/> YES <input type="checkbox"/> NO	Petroleum Storage <input type="checkbox"/> YES <input type="checkbox"/> NO
Foundry <input type="checkbox"/> YES <input type="checkbox"/> NO	Plating/Metal Finishing <input type="checkbox"/> YES <input type="checkbox"/> NO
Dry Cleaning <input type="checkbox"/> YES <input type="checkbox"/> NO	Chemical Production <input type="checkbox"/> YES <input type="checkbox"/> NO
Coal Gasification <input type="checkbox"/> YES <input type="checkbox"/> NO	Circuit Board Manufacturer <input type="checkbox"/> YES <input type="checkbox"/> NO
Machine Shop <input type="checkbox"/> YES <input type="checkbox"/> NO	Herbicide/Pesticide Use, Storage or Disposal <input type="checkbox"/> YES <input type="checkbox"/> NO
Historic Urban Fill Soil present <input type="checkbox"/> YES <input type="checkbox"/> NO	Boston Blue Clay present <input type="checkbox"/> YES <input type="checkbox"/> NO
Naturally Occurring Arsenic >20 mg/kg <input type="checkbox"/> YES <input type="checkbox"/> NO	

G. PHYSICAL SOIL DESCRIPTION

Physical Description (sand, gravel, silt, peat, fill, clay etc.): _____

CHECK IF THE FOLLOWING MATERIALS ARE PRESENTClay ☐YES ☐NOCoal ☐YES ☐NOAsh ☐YES ☐NOConstruction Debris ☐YES ☐NOVegetative Matter ☐YES ☐NOOther Material ☐YES ☐NO _____**H. SOIL SAMPLING METHODOLOGY**

Sampling Methods (check all that apply)

☐Grab☐Headspace Screened☐Composite (based on grab samples)☐Visually Contaminated☐Olfactory contaminated☐Other (describe in LSP Letter)**I. SOIL CHARACTERIZATION METHODOLOGY**

Soil Characterization (check all that apply)

☐Stockpile☐In-situ

Other _____

Number of full suite samples collected _____

Hot Spots Identified ☐YES ☐NO (if yes, discuss in LSP Letter how hotspots were segregated)**J. GENERATOR CERTIFICATION:**

I, the generator, having used due diligence and determined that the soil described within this Soil Submittal Package and intended for reuse at the Fish Road Reclamation Project meets the acceptance criteria, screening procedures, and due diligence described within the Fill Management Plan. There is no reason to suspect or believe soil intended for reuse at Fish Road Reclamation Project has been impacted by any releases of oil or hazardous materials or contains any other contaminants than those at levels described herein. I agree to promptly remove any soil delivered to Fish Road Reclamation Project that is determined by W. L. French Excavating Corp. to not meet acceptance criteria. Should W. L. French Excavating Corp. take action and remove such soil from the Fish Road Reclamation Project and manage that material elsewhere, W. L. French Excavating Corp. will seek payment from the Generator for all costs including damages.

SIGNATURE OF GENERATOR _____ DATE _____

GENERATOR - PRINTED NAME _____

K. SITE DIAGRAM

A site diagram is required indicating any major structures, roads, excavation areas, soil origin, sample locations, and stockpile locations. All sampling locations must be noted:

☐ Check if diagram is attached

SOIL SUBMITTAL CHECKLIST

Facility Name: Fish Road Reclamation Project

Project Address: off Fish Road, Assessor Map 229, Lot 158, Dudley, MA

Operator: W. L. French Excavating Corporation - 14 Sterling Road, Billerica, MA

Contact: Jarrett Everton 978-663-2623 email: jeverson@wlfrench.com



	CIRCLE ONE	
1. Laboratory Testing performed?	YES	NO
2. Proximity to urban fill or MCP Disposal Site stated?	YES	NO
3. Supplemental delineation testing performed?	YES	NO
4. All appropriate laboratory analyses performed?	YES	NO
5. Based on a review of site history and available data are amenable cyanide, asbestos, dioxins, perchlorate compounds, or Per- and Polyfluoroalkyl (PFAS) substances considered to be a contaminate of concern at the site?	YES	NO
6. LSP opinion letter states that soil meets acceptance criteria?	YES	NO
7. Description of site and contaminants provided? (Describe in LSP Opinion Letter)	YES	NO
8. Description of current and former site usage/history is provided? (Describe in LSP Opinion Letter)	YES	NO
9. Is soil considered "remediation waste" under the MCP?	YES	NO
10. Is soil considered "exempt from reporting" to a regulatory authority? (if yes Describe in LSP Opinion Letter)	YES	NO
11. Soil analytical data for specific samples attached and of sufficient frequency with QA/QC and Chain of Custody attached?	YES	NO
12. Field screening data used to support chemical composition provided?	YES	NO
13. Physical description/soil classification is provided?	YES	NO
14. Site figure showing soil origin, soil stockpiles, and location of all soil samples is provided?	YES	NO
15. Data table comparing all applicable results to Fish Road Reclamation Project Acceptance Criteria provided?	YES	NO
16. Signed & Stamped MSR is provided (BOLs not accepted)?	YES	NO
17. Fish Road Reclamation Project Reuse Submittal Form completed, signed, and attached?	YES	NO
18. Volume of soil requested for approval in LSP letter, Soil Reuse Submittal Form and MSR are the same?	YES	NO

Failure to provide the above information may result in the submittal being denied.

SIGNATURE (LSP)

DATE

PRINT NAME (LSP)



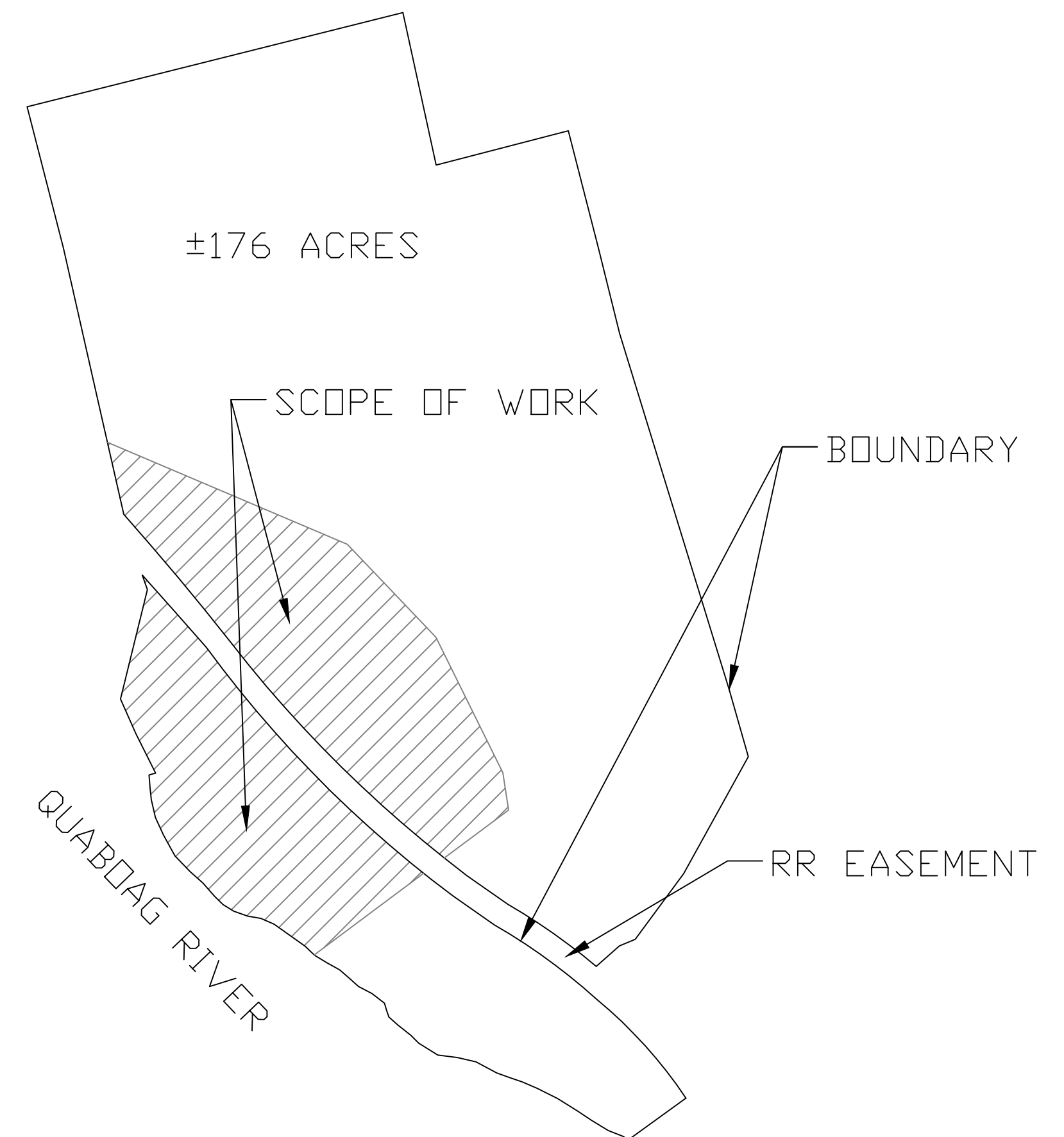
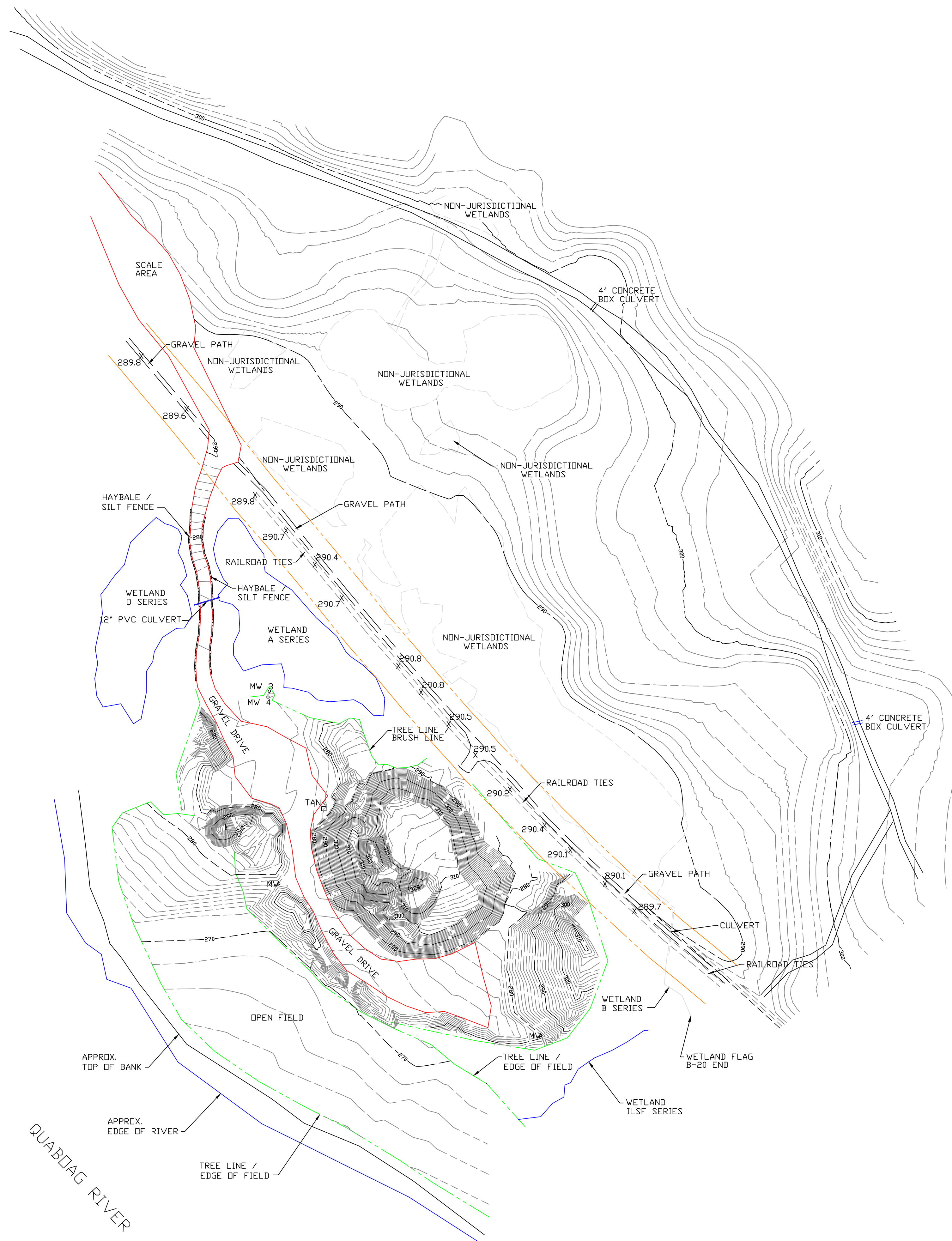
SITE DEVELOPMENT • ENVIRONMENTAL REMEDIATION • SOIL MANAGEMENT

Figures

USGS Topographic Quadrangle Maps



FIGURE 1
SITE LOCUS MAP



LEGEND

- APPROX. RR EASEMENT
- WETLAND FLAGGING (PINK FLAGS)
- WETLAND FLAGGING (BLUE FLAGS)
- NON-JURISDICTIONAL WETLANDS
- EDGE OF GRAVEL
- EDGE OF PATHS
- RAIL ROAD TIES
- TREE / BRUSH LINE
- 10' CONTOUR LINES
- 1' CONTOUR LINES

FISH ROAD

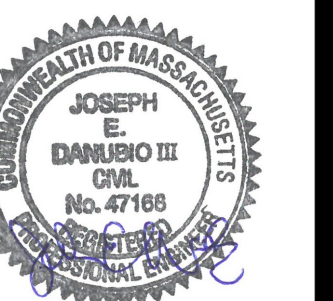
DUDLEY, MA



W.L. FRENCH
3 SURVEY CIRCLE
BILLERICA, MA.

drawing by:
drawing checked by:
drawing scale: 1"= 100'
drawing date: 3/31/2020
drawing revisions:

rev.	description	date



EXISTING
TOPOGRAPHIC
PLAN

Figure 3

MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radius

Site Information:

FISH ROAD RECLAMATION PROJECT
OFF FISH ROAD DUDLEY, MA
2-000020703

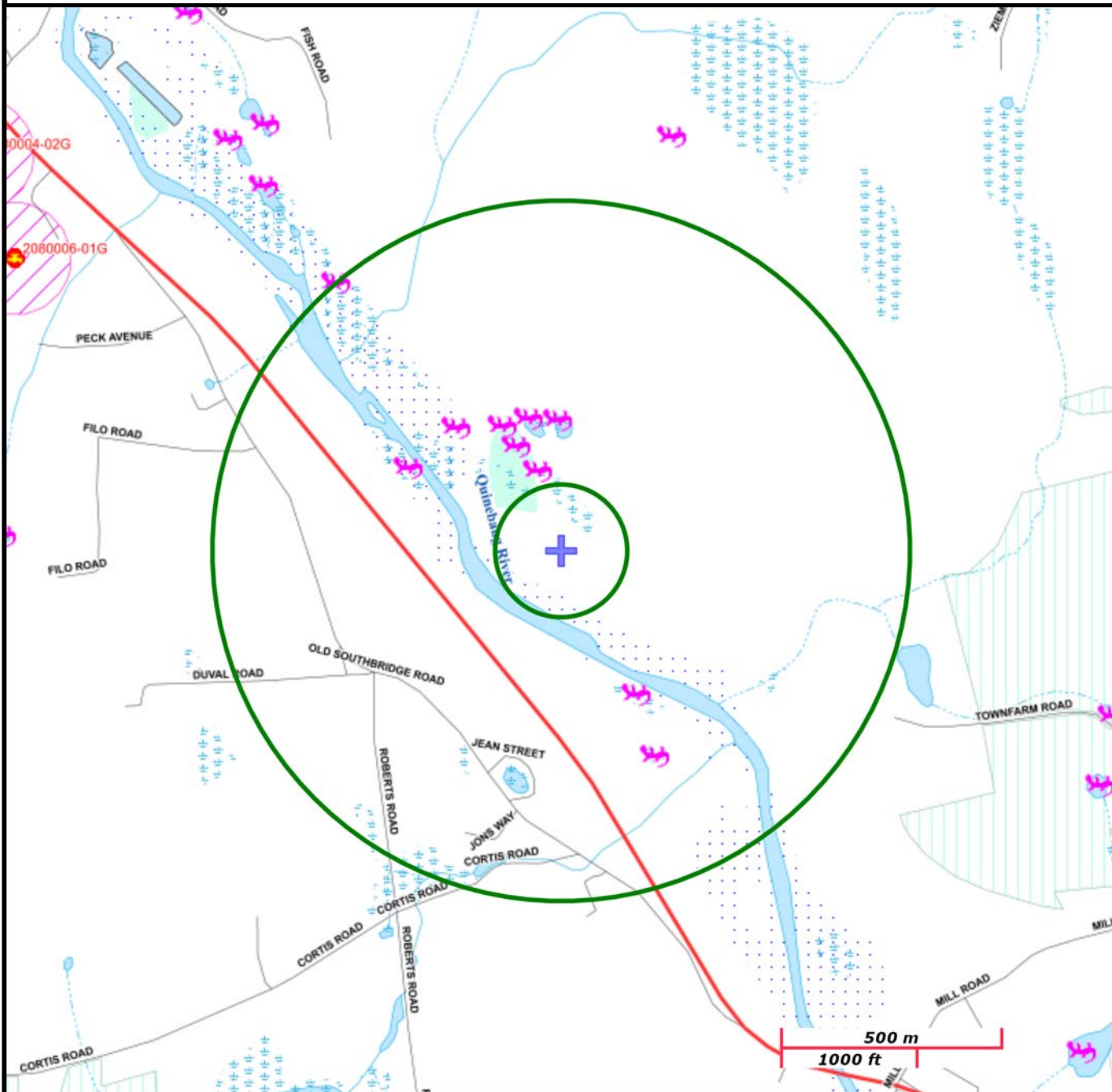
NAD83 UTM Meters:

4658328mN, 254377mE (Zone: 19)
July 1, 2019

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at:
<http://www.mass.gov/mgis/>



MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source.....

Non Potential Drinking Water Source Area: Medium, High (Yield)...

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

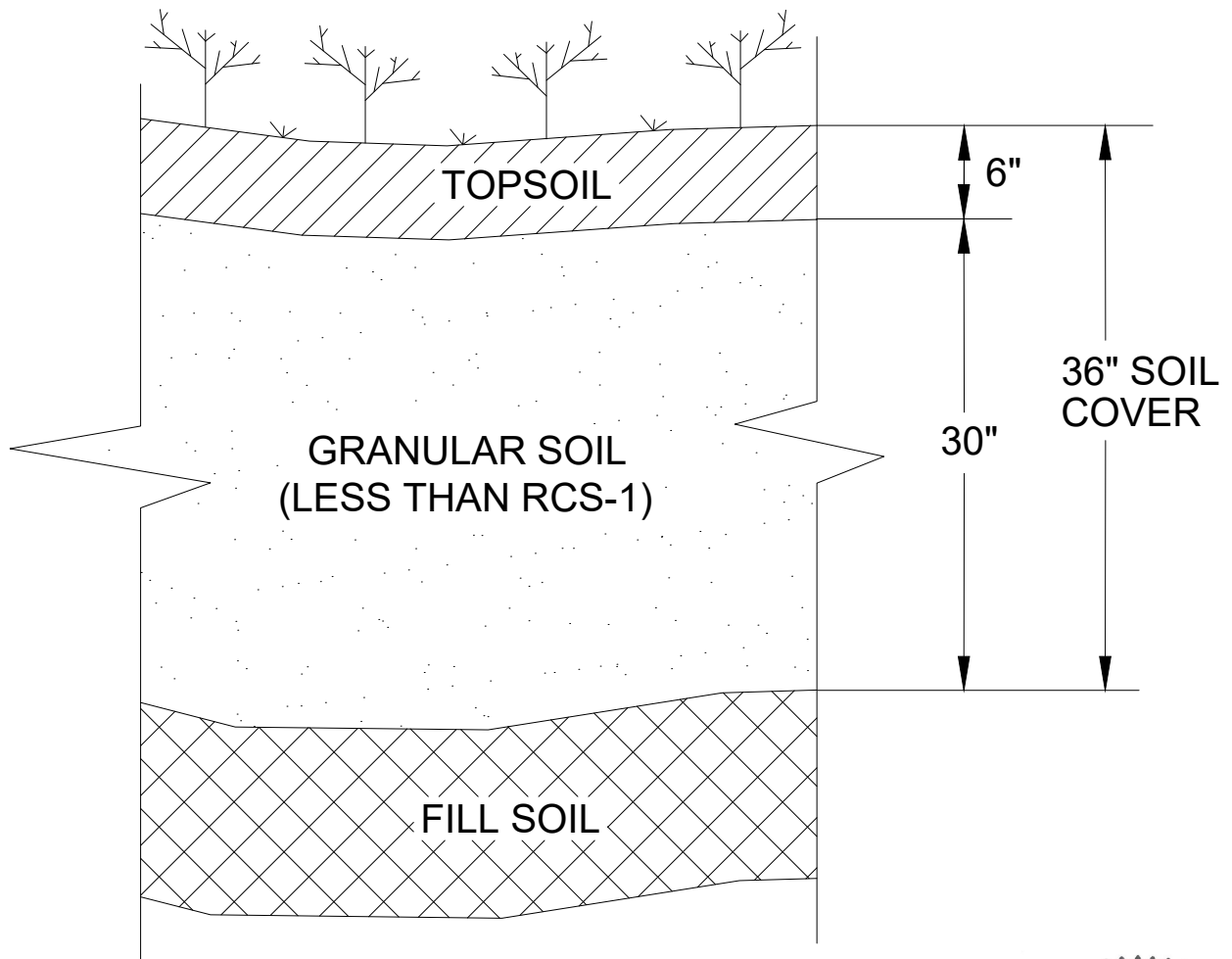
FEMA 100yr Floodplain; Protected Open Space; ACEC

Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert, Potential

Solid Waste Landfill; PWS: Com. GW, SW, Emerg., Non-Com.



FIGURE 4



TYPICAL CAP SECTION

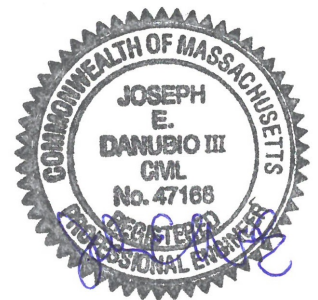


FIGURE 5 TYPICAL SECTION OF CAP

RECLAMATION PROJECT

FISH ROAD
DUDLEY, MA

DATE: 9/24/2019

PROJECT NUMBER: R18-023

SCALE: 1"= 1'



SITE DEVELOPMENT • ENVIRONMENTAL REMEDIATION • SOIL MANAGEMENT

Supporting Documentation



SITE DEVELOPMENT • ENVIRONMENTAL REMEDIATION • SOIL MANAGEMENT

Abbreviated Notice of Resource Area Delineation
(ANRAD)
June 1, 2019

TOWN C.C.



Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username: 3OAKS

Transaction ID: 1103387

Document: WPA Form 4A - ANRAD

Size of File: 216.88K

Status of Transaction: In Process

Date and Time Created: 5/1/2019:8:45:52 PM

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to "Download a Copy" from the Current Submittals page.

**Massachusetts Department of Environmental
Protection**

Bureau of Resource Protection - Wetlands

WPA Form 4A

Abbreviated Notice of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c 131, § 40

Provided by MassDEP:

MassDEP File #:

eDEP Transaction #:1103387

City/Town:DUDLEY

A. General Information

1. Project Location:

a. Street Address	30 FISH RD	c. Zip Code	01571
b. City/Town	DUDLEY	e. Longitude	71.96829 W
d. Latitude	42.03916 N (e.g. 41.01981)	g. Parcel/Lot #	158
f. Map/Plat #	229		

2. Applicant:

☐ Individual ☒ Organization

a. First Name	JONATHAN	b. Last Name	ANDROLEWICZ
c. Organization	RAMPCO CONSTRUCTION CO.		
d. Mailing Address	120 SCHOFIELD AVE		
e. City/Town	DUDLEY	f. State	MA
g. Zip Code	01571		
h. Phone Number	5084003317	i. Fax	
j. Email	jonathan@rampcoconstruction.com		

3. Property Owner:

☐ More than one owner

a. First Name	JAMES	b. Last Name	ZAJAC
c. Organization			
d. Mailing Address	146 SE CROSSPOINT DR.		
e. City/Town	PORT ST. LUCIA	f. State	FL
g. Zip Code	34983		
h. Phone Number	9789285874	i. Fax	
j. Email	MADip219@gmail.com		

4. Representative:

a. First Name	MARYANN	b. Last Name	DIPINTO
c. Organization	THREE OAKS ENVIRONMENTAL		
d. Mailing Address	PO BOX 404		
e. City/Town	HUBBARDSTON	f. State	MA
g. Zip Code	01452		
h. Phone Number	9788553180	i. Fax	
j. Email	threeoaksenvironmental@gmail.com		

5. Total WPA Fee Paid (Automatically inserted from ANRAD Wetland Fee Transmittal Form):

a. Total Fee Paid \$	2000.00	b. State Fee Paid \$	987.50	c. City/Town Fee Paid \$	1012.50
----------------------	---------	----------------------	--------	--------------------------	---------

B. Area(s) Delineated

1. Bordering Vegetated Wetland (BVW) 3500

Linear Feet of Boundary Delineated

2. Check all methods used to delineate the Bordering Vegetated Wetland (BVW) boundary:
used to delineate the Bordering Vegetated Wetland (BVW) boundary:

- a. ☐ MassDEP BVW Field Data Form (attached)
b. ☒ Other Methods for Determining the BVW boundary (attach documentation):

**Massachusetts Department of Environmental
Protection**

Bureau of Resource Protection - Wetlands

WPA Form 4A

Abbreviated Notice of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c 131, § 40

1. ☒ 50% or more wetland indicator plants
2. ☒ Saturated/inundated conditions exist
3. ☐ Groundwater indicators
4. ☒ Direct observation
5. ☒ Hydric soil indicators
6. ☐ Credible evidence of conditions prior to disturbance

3. Indicate any other resource area boundaries are delineated:

a. Resource Area

b. Linear Feet Delineated

c. Resource Area

d. Linear Feet Delineated

C. Additional Information

Application must include the following plans with this Abbreviated Notice of Resource Area Delineation. See instructions for details.

1. ☒ ANRAD (Delineation Plans only)
2. ☒ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filters may omit this item.)
3. ☒ Plans identifying the boundaries of the Bordering Vegetated Wetlands (BVW)(and/or other resource areas, if applicable).
4. ☒ List the titles and final revision dates for all plans and other materials submitted with this Abbreviated Notice of Resource Area Delineation.

a. Plan Title:

b. Plan Prepared By:

c. Plan Signed/Stamped By:

c. Revised Final Date: e. Scale:

FISH RD. EXISTING
TOPOGRAPHIC PLAN

JOSEPH DANUBIO III

4/16/19

1"=100'

**Massachusetts Department of Environmental
Protection**

Bureau of Resource Protection - Wetlands

WPA Form 4A

Abbreviated Notice of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c 131, § 40

D. Signatures and Submittal Requirements

Provided by MassDEP:

MassDEP File #:

eDEP Transaction #:1103387

City/Town:DUDLEY

I certify under the penalties of perjury that the foregoing Abbreviated Notice of Resource Area Delineation and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

I hereby grant permission, to the Agent or member of the Conservation Commission and the Department of Environmental Protection, to enter and inspect the area subject to this Notice at reasonable hours to evaluate the wetland resource boundaries subject to this Notice, and to require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

I acknowledge that failure to comply with these certification requirements is grounds for the Conservation Commission or the Department to take enforcement action.

Jonathan Androlewicz

1. Signature of Applicant

5/1/2019

2. Date

James Zajac

3. Signature of Property Owner(if different)

5/1/2019

4. Date

MaryAnn DiPinto

5. Signature of Representative (if any)

5/1/2019

6. Date

For Conservation Commission:

Two copies of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; two copies of the ANRAD Wetland Fee Transmittal Form; and the city/town fee payment must be sent to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; one copy of the ANRAD Wetland Fee Transmittal Form; and a copy of the state fee payment must be sent to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery. (E-filers may submit these electronically.)

Other:

If the applicant has checked a box in any part of Section C, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Abbreviated Notice of Resource Area Delineation.

**Massachusetts Department of Environmental
Protection
Bureau of Resource Protection - Wetlands
WPA Form 4A
ANRAD Wetland Fee Transmittal Form**

Massachusetts Wetlands Protection Act M.G.L. c 131. § 40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #1103387
City/Town:DUDLEY

The fees for work proposed under each Abbreviated Notice of Resource Area Delineation must be calculated and submitted to the Conservation Commission and the Department (see instructions and Wetland Fee Transmittal Form)

☐ **1. Fee Exempt:** No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Fees

The fee is calculated as follows for each resource area delineation included in the ANRAD (check applicable project type):

Bordering Vegetated Wetland:

1. ☐ Single family house project

a. linear feet	x \$2.00 =	b. Total fee to exceed \$200
3500	2.00	7000.00

2. ☒ All other projects

a. linear feet	x \$2.00 =	b. Total fee to exceed \$200
----------------	------------	------------------------------

Other resource area (e.g. Bank, Riverfront area, etc.):

3. ☐ Single family house project

	\$	\$
a. linear feet	x \$2.00 =	b. Total fee to exceed \$200
	\$	\$

4 ☐ All other projects

a. linear feet	x \$2.00 =	b. Total fee to exceed \$200
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Total Project Fee (not to exceed \$200 for projects on single-family house lots and not to exceed \$2,000 for all other projects): \$2000.00

5. Total fee

State share of filing fee (*): \$987.50

6. 1/2 of total fee less
\$12.50

City/Town share of filing fee: \$1012.50

7. 1/2 of total fee plus
\$12.50

(*) = You may not pay by credit card if the State share of the Fee is \$1000 or greater, however you will be able to pay by ACH and Check.

My DEP | Forms | Attach Files | Signature | Payment | Submit

Transaction Overview Trans# 1103387 ID# WPA Form 4A - ANRAD (Fee Transmittal)[Forms](#)[Attach Files](#)[Signature](#)[Payment](#)[Submit](#)**Payment**[print](#)[Exit](#)**Payment Confirmation**

Thank you. Your payment has been received and payment receipt has been emailed.

DEP TRANS # 1103387

Payment Amount: \$987.50

Payment Date: 5/1/2019 8:29:30 PM

DEP Payment Confirmation ID: 5a4a318c-4c50-4037-b3ca-b99d30857d43

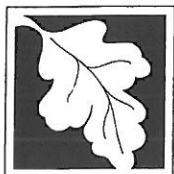
Note: Payment received after 3:30pm will not be posted until the next business day.

[Next](#)



SITE DEVELOPMENT • ENVIRONMENTAL REMEDIATION • SOIL MANAGEMENT

Order of Resource Area Delineation
(ORAD)
June 5, 2019



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

**WPA Form 4B – Order of Resource Area
Delineation**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

146-0731

MassDEP File Number

eDEP Transaction Number

Dudley

City/Town

A. General Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

From: Dudley
1. Conservation Commission

2. This Issuance is for (check one):
a. ☒ Order of Resource Area Delineation
b. ☐ Amended Order of Resource Area Delineation

3. Applicant:
Jonathan Androlewicz
a. First Name b. Last Name
Rampco Construction Company
c. Organization
120 Schofield Avenue
d. Mailing Address
Dudley MA 01571
e. City/Town f. State g. Zip Code

4. Property Owner (if different from applicant):
James Zajac
a. First Name b. Last Name
c. Organization
146 SE Crosspoint Drive
d. Mailing Address
Port St. Lucia FL 34983
e. City/Town f. State g. Zip Code

5. Project Location:
30 Fish Road Dudley 01571
a. Street Address b. City/Town c. Zip Code
229 158
d. Assessors Map/Plat Number e. Parcel/Lot Number
Latitude and Longitude 42d039m16Ns 71d96m829Ws
(in degrees, minutes, seconds): f. Latitude g. Longitude

6. Dates: May 7, 2019 June 5, 2019 June 5, 2019
a. Date ANRAD filed b. Date Public Hearing Closed c. Date of Issuance

7. Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:
Fish Rd, Existing Topographic Plan May 31, 2019
a. Title b. Date
c. Title d. Date



**WPA Form 4B – Order of Resource Area
Delineation**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

146-0731

MassDEP File Number

eDEP Transaction Number

Dudley

City/Town

B. Order of Delineation

1. The Conservation Commission has determined the following (check whichever is applicable):

- a. ☒ **Accurate:** The boundaries described on the referenced plan(s) above and in the Abbreviated Notice of Resource Area Delineation are accurately drawn for the following resource area(s):

1. ☐ Bordering Vegetated Wetlands
2. ☐ Other resource area(s), specifically:

a. _____

- b. ☐ **Modified:** The boundaries described on the plan(s) referenced above, as modified by the Conservation Commission from the plans contained in the Abbreviated Notice of Resource Area Delineation, are accurately drawn from the following resource area(s):

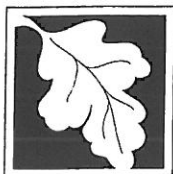
1. ☐ Bordering Vegetated Wetlands
2. ☐ Other resource area(s), specifically:

a. _____

- c. ☐ **Inaccurate:** The boundaries described on the referenced plan(s) and in the Abbreviated Notice of Resource Area Delineation were found to be inaccurate and cannot be confirmed for the following resource area(s):

1. ☐ Bordering Vegetated Wetlands
2. ☐ Other resource area(s), specifically:

3. ☐ The boundaries were determined to be inaccurate because:



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

**WPA Form 4B – Order of Resource Area
Delineation**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

146-0731

MassDEP File Number

eDEP Transaction Number

Dudley

City/Town

C. Findings

This Order of Resource Area Delineation determines that the boundaries of those resource areas noted above, have been delineated and approved by the Commission and are binding as to all decisions rendered pursuant to the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40) and its regulations (310 CMR 10.00). This Order does not, however, determine the boundaries of any resource area or Buffer Zone to any resource area not specifically noted above, regardless of whether such boundaries are contained on the plans attached to this Order or to the Abbreviated Notice of Resource Area Delineation.

This Order must be signed by a majority of the Conservation Commission. The Order must be sent by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate DEP Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html>).

D. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate DEP Regional Office to issue a Superseding Order of Resource Area Delineation. When requested to issue a Superseding Order of Resource Area Delineation, the Department's review is limited to the objections to the resource area delineation(s) stated in the appeal request. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order of Resource Area Delineation will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order or Determination, or providing written information to the Department prior to issuance of a Superseding Order or Determination.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act, (M.G.L. c. 131, § 40) and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
**WPA Form 4B – Order of Resource Area
Delineation**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

146-0731

MassDEP File Number

eDEP Transaction Number

Dudley

City/Town

E. Signatures

June 5, 2019

Date of Issuance

Please indicate the number of members who will sign this form.

1. Number of Signers

Richard J. Androlewicz, Chairman

Francis Mikolajczak, Commissioner

Samantha S. Costello, Commissioner

Frank Gardecki, Commissioner

George Slingo, Vice Chairman

Nancy J. Vajcovec, Commissioner

James Koebke, Commissioner

This Order is valid for three years from the date of issuance.

If this Order constitutes an Amended Order of Resource Area Delineation, this Order does not extend the issuance date of the original Final Order, which expires on _____ unless extended in writing by the issuing authority.

This Order is issued to the applicant and the property owner (if different) as follows:

2. ☐ By hand delivery on

3. ☐ By certified mail, return receipt requested on

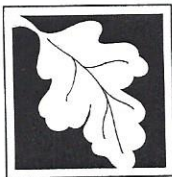
a. Date

a. Date



SITE DEVELOPMENT • ENVIRONMENTAL REMEDIATION • SOIL MANAGEMENT

Negative Determination
(Phase II Area)
October 23, 2019



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



From:

Dudley
Conservation Commission

To: Applicant

Jonathan Androlewicz

Name

120 Schofield Avenue

Mailing Address

Dudley

City/Town

MA

State

01571

Zip Code

Property Owner (if different from applicant):

Name

Mailing Address

City/Town

State

Zip Code

1. Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

Existing Topographic Plan

Title

8/29/19

Date

Title

Date

Title

Date

2. Date Request Filed:

10/23/19

B. Determination

Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

Gravel pit area north of the rail trail.

Project Location:

30 Fish Road

Street Address

229

Assessors Map/Plat Number

Dudley

City/Town

158

Parcel/Lot Number



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Determination (cont.)

- ☐ 6. The following area and/or work, if any, is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act:

- ☐ 7. If a Notice of Intent is filed for the work in the Riverfront Area described on referenced plan(s) and document(s), which includes all or part of the work described in the Request, the applicant must consider the following alternatives. (Refer to the wetland regulations at 10.58(4)c. for more information about the scope of alternatives requirements):

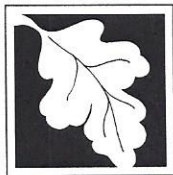
- ☐ Alternatives limited to the lot on which the project is located.
- ☐ Alternatives limited to the lot on which the project is located, the subdivided lots, and any adjacent lots formerly or presently owned by the same owner.
- ☐ Alternatives limited to the original parcel on which the project is located, the subdivided parcels, any adjacent parcels, and any other land which can reasonably be obtained within the municipality.
- ☐ Alternatives extend to any sites which can reasonably be obtained within the appropriate region of the state.

Negative Determination

Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

- ☒ 1. The area described in the Request is not an area subject to protection under the Act or the Buffer Zone.
- ☐ 2. The work described in the Request is within an area subject to protection under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.
- ☐ 3. The work described in the Request is within the Buffer Zone, as defined in the regulations, but will not alter an Area subject to protection under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).

- ☐ 4. The work described in the Request is not within an Area subject to protection under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to protection under the Act.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Determination (cont.)

The following Determination(s) is/are applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations:

Positive Determination

Note: No work within the jurisdiction of the Wetlands Protection Act may proceed until a final Order of Conditions (issued following submittal of a Notice of Intent or Abbreviated Notice of Intent) or Order of Resource Area Delineation (issued following submittal of Simplified Review ANRAD) has been received from the issuing authority (i.e., Conservation Commission or the Department of Environmental Protection).

☐ 1. The area described on the referenced plan(s) is an area subject to protection under the Act. Removing, filling, dredging, or altering of the area requires the filing of a Notice of Intent.

☐ 2a. The boundary delineations of the following resource areas described on the referenced plan(s) are confirmed as accurate. Therefore, the resource area boundaries confirmed in this Determination are binding as to all decisions rendered pursuant to the Wetlands Protection Act and its regulations regarding such boundaries for as long as this Determination is valid.

☐ 2b. The boundaries of resource areas listed below are not confirmed by this Determination, regardless of whether such boundaries are contained on the plans attached to this Determination or to the Request for Determination.

☐ 3. The work described on referenced plan(s) and document(s) is within an area subject to protection under the Act and will remove, fill, dredge, or alter that area. Therefore, said work requires the filing of a Notice of Intent.

☐ 4. The work described on referenced plan(s) and document(s) is within the Buffer Zone and will alter an Area subject to protection under the Act. Therefore, said work requires the filing of a Notice of Intent or ANRAD Simplified Review (if work is limited to the Buffer Zone).

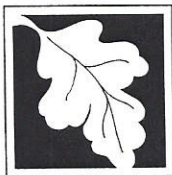
☐ 5. The area and/or work described on referenced plan(s) and document(s) is subject to review and approval by:

Name of Municipality

Pursuant to the following municipal wetland ordinance or bylaw:

Name

Ordinance or Bylaw Citation



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Determination (cont.)

- ☐ 5. The area described in the Request is subject to protection under the Act. Since the work described therein meets the requirements for the following exemption, as specified in the Act and the regulations, no Notice of Intent is required:

Exempt Activity (site applicable statutory/regulatory provisions)

- ☐ 6. The area and/or work described in the Request is not subject to review and approval by:

Name of Municipality

Pursuant to a municipal wetlands ordinance or bylaw.

Name

Ordinance or Bylaw Citation

C. Authorization

This Determination is issued to the applicant and delivered as follows:

☐ by hand delivery on

☐ by certified mail, return receipt requested on

Date

Date

This Determination is valid for **three years** from the date of issuance (except Determinations for Vegetation Management Plans which are valid for the duration of the Plan). This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

This Determination must be signed by a majority of the Conservation Commission. A copy must be sent to the appropriate DEP Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/>) and the property owner (if different from the applicant).

Signatures:

Richard J. Androlewicz, Chairman

Francis Mikolajczak, Commissioner

Samanth S. Costello, Commissioner

Frank Gardecki, Commissioner

George Slingo, Vice Chairman

Nancy J. Valcover, Commissioner

James Koebe, Commissioner

Date