APPLICATION FOR SITE PLAN APPROVAL

Owner of record: The Hotchkiss School (contact John Bryant, Director of Facilities)

Address of owner: 11 Interlaken Road, Lakeville, CT 06039

Property Location: Tax Map 06 Lot 08 Land Records: Vol. _____ Page ____

Acreage: 102 Zone: LA

Site Plan Requirements:

Soil Erosion and Sediment Control Measures: See plans

Conservation Commission Approval, if applicable: File 2024-IW-016

Historic District Commission Approval, if applicable: _____

Approval From TAHD: _____ WPCA: _____ BHC: _____

If applicable, boundaries of flood plain, aquifer protection zone, Housatonic River District, or Historic District should be on Site Plan.

Additional Remarks: Hotchkiss School intends to dredge sediment from an area of Lake Wononskopomuc near the mouth of Sucker Brook using diver assisted hydraulic dredging

Owner's Signature: _____ Date: 12-18-2024

Applicant's Signature and Title: Director of Facilities

Applicant's address and phone number: The Hotchkiss School

11 Interlaken Road, Lakeville, CT 06039 phone 860-435-3162

Filed at Planning and Zoning Commission Office: _____, 2001
Date of next regular Commission meeting: _____
Date of approval or denial of plan: _____

A decision on a site plan submitted as part of a zoning permit application shall be rendered within 65 days after receipt of the plan at a regular meeting of the Commission. The applicant may request extensions of the decision period, not to exceed two further 65-day periods.

Application for Dredging of Lake Wononskopomuc
The Hotchkiss School

Introduction

The Hotchkiss School has a sailboat program. The boats are launched from the jetty on the north side of campus along the shoreline of Lake Wononskopomuc. The school intends to dredge a portion of the lake to maintain the proper depth of water for the boats. The project will take approximately one month and is planned for the summer or fall of 2025.

The Salisbury Inland Wetlands Commission has approved the project. Planning & Zoning approval is required since the shoreline activities will take place in the Lake Protection Overlay District.

Project Description

Sucker Brook enters Lake Wononskopomuc on the east side of the cove where the boats are launched. The brook carries sediment which deposits into the lake at the mouth of the brook and forms a delta. While the precise depth of the normal lakebed is unknown, it is estimated to be four to five feet based on bathymetry of the surrounding area. The current depth is approximately 2 to 2.5 feet.

The school intends to dredge an area of approximately 0.75 acres to a depth of five feet from the water surface and remove approximately 1,800 cubic yards of sediment. The work will take place between the mouth of the brook and the existing boat jetty.

Construction Method

Hotchkiss intends to use diver-assisted hydraulic dredging. A diver will direct a suction hose along the bottom of the lake to draw sediment laden water through the hose and into a large dewatering bag. The bag will be placed onshore in an existing flat area that is currently used for boat storage. A plastic liner will be placed below the dewatering bag. A haybale barrier will be placed around the dewatering bag and over the haybales to create an impoundment. As the water exits the dewatering bag, the Contractor will inspect it to confirm that it is clear before releasing it back to the lake.

A turbidity curtain will be installed around the work area. The turbidity curtain will be relocated as the work area shifts. The neighbor to the north has granted permission to anchor the turbidity curtain to their property.

All of the dredging equipment used at the site will be cleaned prior to use to prevent the spread of invasive species.

After the dredging is complete, the dewatered spoils will be removed from the bag and disposed of off campus. The erosion and sedimentation controls will remain in place until the site has stabilized and the turbidity ceased.

The dewatering bag and staging area will require approximately 0.2 acres of upland review area that is already developed and currently used for boat storage. Gound disturbance in this area will be minimal.

Hotchkiss has used this method in the past in the same area, most recently in 2016 or 2017.

DEEP Concerns

DEEP Fisheries was contacted regarding this project. They have determined that the project will not impact fisheries or habitat provided that the following recommendations are followed:

1. The work is not conducted between April 30 and June 30.
2. The contractor drives fish out of the work area prior to conducting dredging activity.

(See Fisheries Consultation Form dated 7/15/2024.)

DEEP Land and Water Resources Division was contacted and they have indicated that no state or federal permits are required for this project. (see email from Danielle Missell dated 3/17/2023)

A request for Review was submitted to the DEEP Natural Diversity Data Base on July 12, 2024. A response was received on December 13, 2024 indicating that the dredging activities will not impact any extant populations of Federal or State Endangered, Threatened or Special Concern Species. The review adds that when the spoils location is determined, a Request for Review should be submitted for that site.

Area of Proposed Dredging

Area where Dewatering Bag will be Placed

Connecticut
Department of Energy &
Environmental Protection
Bureau of Natural Resources
Fisheries Division

DEEP Fisheries Consultation Form

To the Applicant - Prior to the submission of your license application to the Connecticut Department of Energy & Environmental Protection (DEEP) Water Planning and Management Division (WPMD) or Land and Water Resources Division (LWRD) or Water Permitting and Enforcement Division (WPED), please complete Part I below and e-mail the following to deep.inland.fisheries@ct.gov:

1. this completed DEEP *Fisheries Consultation Form*;
2. a site location map,
3. a PDF version of the proposed project plans including a site survey of existing conditions (if available), and
4. photos of the site.

Fisheries Division staff will contact you if further details are needed. Once the Fisheries Division staff returns the completed form to you, please include the form, and any signed plans (if applicable) in your license application submittal to DEEP.

Part I: Applicant and Site Information (*to be completed by APPLICANT)*

1. Applicant/Registrant Information

Name: The Hotchkiss School
Mailing Address: 11 Interlaken Road
City/Town: Lakeville State: CT Zip Code: 06039
Business Phone: 860-435-3162 Ext.: _____
Contact Person: John Bryant Phone: 860-435-3162 Ext: _____
E-mail Address: jbryant@hotchkiss.org

2. Engineer/Surveyor/Agent Information (list as applicable)

Name: Haley Ward, Inc.
Mailing Address: 140 Willow Street
City/Town: Winsted State: CT Zip Code: 06098
Business Phone: 860-379-6669 Ext.: _____
Contact Person: Todd Parsons Phone: 860-368-0152 Ext: _____
E-mail Address: tparsons@haleyward.com
Service Provided: prepare plans and applications

3. Site Location:

Name of Site: The Hotchkis School
Address of Site or Location Description: 11 Interlaken Road
City/Town: Lakeville State: CT Zip Code: 06039
Parcel Location/Tax Assessor's Reference: Map 06 Block _____ Lot 08
Name of Stream or Waterbody: Lake Wononskopomuc

4. **Activity:** Check the box best describing your activity: (check all that apply):

- ☐ new public/fishing access;
- ☐ new docks and marinas on tidal rivers;
- ☐ coastal/tidal dredging projects;
- ☐ activities in inland/non-tidal waterbodies and watercourses;
- ☒ maintenance dredging
- ☐ beach nourishment
- ☐ cofferdam installation
- ☐ conducting construction activity within a 100-foot buffer of a Cold Water Stream Habitat
- ☐ work within LIS Blue Plan area
- ☐ Other
- ☐ withdrawal of water from a non-tidal/inland river, stream, pond or lake;
- ☐ withdrawal of water from a wetland, marsh, swamp, or bog hydrologically connected to a non-tidal/inland river, stream, pond or lake;
- ☐ withdrawal of groundwater from stratified drift deposits hydrologically connected to a non-tidal/inland river, stream, pond or lake.

Note: Fisheries consultation is **not required** for docks and marinas on Long Island Sound.

Part I: Applicant and Site Information (*to be completed by APPLICANT) (continued)*

5. **DEEP Pre-application Contact:** Indicate name of permit analyst or engineer, if applicable.
   none

6. **Project Description:** Provide or attach a brief, but thorough, description of the project including any measures to protect, enhance or restore fish populations:

   See attached description, photographs, and plan set.

Part II: Fisheries Determination *(To be completed by DEEP Fisheries Staff only)*

To Fisheries Staff - This completed consultation form is required to be submitted as part of an application to DEEP. The application has not yet been submitted to DEEP. Please review the enclosed materials and determine whether the project will significantly impact any fisheries or fisheries habitat. You may provide comments or recommendations regarding the proposal. Send this completed form to the applicant and copy the DEEP analyst, if known, or the applicable WPMD/LWRD/WPED Supervisor. If the proposed work **WILL** significantly impact any fisheries and/or habitat or if you have any comments or concerns regarding the regulatory review for this project, contact the DEEP analyst, if known, or the applicable WPMD/LWRD/WPED Supervisor.

DEEP FISHERIES DIVISION DETERMINATION

Date Consultation Form received: 7/11/2024

Please check applicable boxes and return the completed Consultation Form to the applicant:

- ☐ I have determined that the work described in Part I of this form and attachments **WILL NOT** significantly impact any fisheries and/or habitat;
- ☒ I have determined that the work described in Part I of this form and attachments **WILL NOT** significantly impact any fisheries and/or habitat **if the below Recommendations are followed**; and/or,
- ☐ I have determined that the work described in Part I of this form and attachments **WILL NOT** significantly impact any fisheries and/or habitat **if the design features shown on the attached plans are incorporated**. Fisheries staff to sign and date plans and return to the applicant with the completed Consultation Form.

COMMENTS/RECOMMENDATIONS (or check here if these are attached following this page: ☐):

The proposed activities include adequate controls to manage the turbidity and sedimentation related impacts from dredging. Suction dredging has the potential to entrain or impinge fish, eggs, and larvae and result in mortality or injury. The litoral area is used by centrarchid species (sunfish and bass) for spawning, these species excavate nests, in the lake bottom and deposit eggs. These species will actively guard their nests and fry. To minimize impacts to centrarchid spawning the dredging should take place outside of the period of April 30th-June 30th, or an inspection should be performed to demonstrate a lack of nests prior to turbidity curtain installation and dredging. Since the turbidity curtains will enclose the work area there is the potential for fish to be trapped and experience greater risk of entrainment. Prior to beginning suction dredging, the diver and project staff should conduct a visual inspection to determine if a substantial number of fish are trapped by the curtain. If so the turbidity curtain should be partially opened and the fish should be driven out via splashing, use of a boat motor, or similar hazing techniques.

"By entering my name below, I agree that I am providing my legal signature, and am legally bound by the determination above."

Joe Cassone	7/15/2024
Signature of Fisheries Division Staff	Date
Joseph Cassone	Fisheries Biologist
Print Name of Fisheries Division Staff	Title

Todd Parsons

From: Missell, Danielle <Danielle.Missell@ct.gov>
Sent: Friday, March 17, 2023 2:55 PM
To: Todd Parsons
Subject: RE: dredging project

Hi Todd,
No permits are required for the hydraulic dredging itself from DEEP or ACOE. If they need to establish access through a wetland/watercourse they may need Section 404/401.
An Inland Wetland permit from the town may be required.
Danielle

Danielle Missell
Environmental Analyst
Land and Water Resources Division
Bureau of Water Protection and Land Reuse
Connecticut Department of Energy & Environmental Protection
79 Elm Street, Hartford, CT 06106-5127
p: 860 424-3698 | Danielle.Missell@ct.gov

Connecticut
Department of Energy &
Environmental Protection

Conserving, improving, and protecting our natural resources and environment;
Ensuring a clean, affordable, reliable, and sustainable energy supply.

portal.ct.gov/DEEP

From: Todd Parsons <tparsons@haleyward.com>
Sent: Friday, March 17, 2023 2:36 PM
To: Missell, Danielle <Danielle.Missell@ct.gov>
Subject: dredging project

Hi Danielle

I hope you are the correct person to ask these questions. If not, please let me know who I should reach out to. I have a client who owns frontage on an inland lake. There is a stream that deposits sediment into the lake in an area that they would like to dredge. They intend to diver-assisted hydraulic dredging. The area is not fully defined yet, but will likely be between one-half and one acre. What DEEP permits are required for this? Are there associated Army Corps permits? They will not be placing the removed material in any wetlands.

Thank you.

HALEY WARD.

AN EMPLOYEE-OWNED COMPANY

Todd Parsons, PE
Senior Project Manager / Senior Project Engineer
t: 860.379.6669
a:140 Willow Street, Suite 8,Winsted,CT 06098

December 12, 2024

Todd Parsons
Haley Ward, Inc.
2210 Main Street
Glastonbury, CT 06033
tparsons@haleyward.com

Project: Lake Wononskopomuc Dredging Project in the area of Sucker Brook (without Dredge Spoil Location Identified) for The Hotchkiss School in Salisbury, Connecticut
Portal Filing No.: 116401
NDDB Determination No.: 202407681
Expiration Date: December 12, 2026

Dear Todd Parsons,

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map provided for the proposed Lake Wononskopomuc Dredging Project in the area of Sucker Brook (without Dredge Spoil Location Known) for The Hotchkiss School in Salisbury, Connecticut. According to our information there are many Federal and State Listed Species known to occur in this lake. The NDDB Program normally includes, in the review, the placement of the dredge spoils. In this case, you have stated that the dredge spoil location has not been selected. **No work may begin on this project until a dredge spoil location is selected and has been reviewed and approved by the NDDB Program.**

The NDDB Program has determined that the proposed activities of dredging the proposed area of Lake Wonoskopomuc will not impact any extant populations of Federal or State Endangered, Threatened or Special Concern Species that occur in the vicinity of t the actual dredge. However, please submit to the NDDB Program, the selected dredge spoil location for review and approval before any work may begin on this project. If State Listed Species are known from the identified spoil location or near it, we will make further recommendations.

This determination is good for two years. Please re-submit an NDDB Request for Review if the scope of work changes or if work has not begun on this project by December 12, 2026.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits.

Please contact me if you have any questions at william.moorhead@ct.gov (be sure to cc deep.nddbrequest@ct.gov with any email communications). **Please reference the filing number 116401 on all correspondence regarding this request.**

Thank you for consulting with the Natural Diversity Data Base and continuing to work with us to protect State-listed species.

Sincerely,

William Moorhead
Botanist & Plant Community Ecologist

June 18, 2024

Gentlemen,

It is ok for Harchris to anchor one end of the turbidity curtain on my property in 2025. I have no objections with the proposed dredging Project.

Jennifer Sims
Frank Sims
Sims Family Trust.

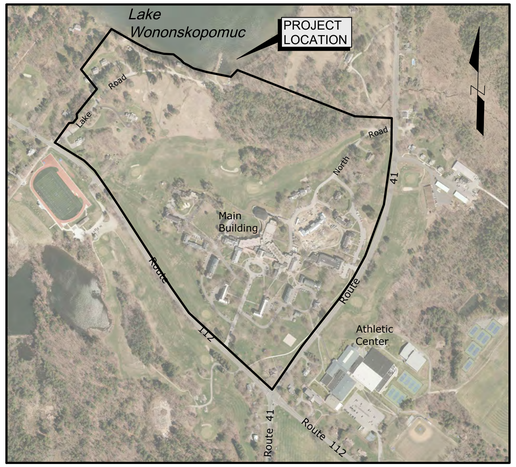
LAKE WONONSKOPOMUC DREDGING

THE HOTCHKISS SCHOOL

INTERLAKEN ROAD (ROUTE 112) - SALISBURY, CT

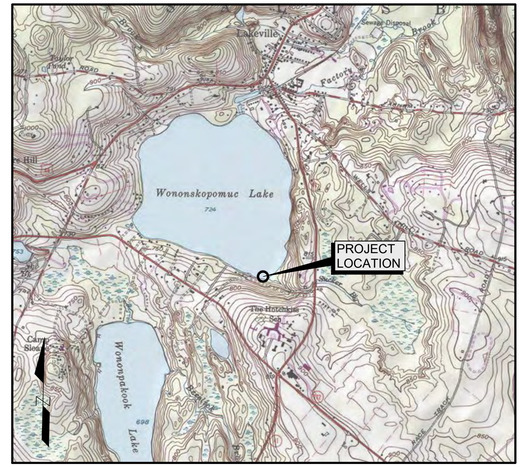
MAY 23, 2024

Revised: May 31, 2024
July 15, 2024
July 23, 2024



CAMPUS MAP

SCALE: 1"= 600'

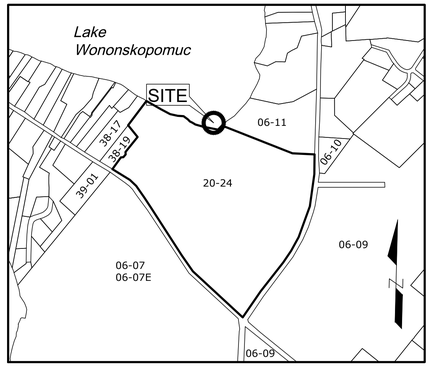


LOCATION MAP

SCALE: 1"= 2000'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	BLDG. SETBACK	
100	CONTOUR LINE	100
x 100.25	SPOT ELEVATION	100.5
	EDGE OF WATER	
	FILTER SOCK	FS FS
	HAYBALE BARRIER	HB HB HB
	CLEARING LINE	CLL



ABUTTERS MAP

SCALE: 1"= 1,000'

List of abutters as of May 20, 2024

Map	Lot	Owner Name	Address
		Direct abutting	
	NORTH		
		LAKE WONONSKOPOMUC	
06	11	SIMS JENNIFER & FRANK TR SIMS FAMILY TRUST	PO BOX 633 LAKEVILLE, CT 06039
	EAST		
06	10	FINE ARTS TRUST LLC	164 SALMON KILL ROAD LAKEVILLE, CT 06039
06	09	HOTCHKISS SCHOOL	11 INTERLAKEN RD LAKEVILLE, CT 06039
	SOUTH		
06	09	HOTCHKISS SCHOOL	11 INTERLAKEN RD LAKEVILLE, CT 06039
06	07	HOTCHKISS SCHOOL	11 INTERLAKEN RD LAKEVILLE, CT 06039
06	07E	SALISBURY TOWN OF	27 MAIN ST SALISBURY, CT 06068
39	01	HOTCHKISS SCHOOL	11 INTERLAKEN RD LAKEVILLE, CT 06039
	WEST		
38	19	HOTCHKISS SCHOOL	11 INTERLAKEN RD LAKEVILLE, CT 06039
38	17	INTERLAKEN INN ASSOCIATES	74 INTERLAKEN RD LAKEVILLE, CT 06039

GENERAL NOTES

1. The Contractor shall contact Call-Before-You-Dig at 1-800-922-4455 for marking of utilities prior to any excavation. Location of existing utilities is based on information provided by owner.
2. The Contractor shall obtain copies of all permits and comply with all permit conditions.
3. The contractor shall restore all disturbed areas to the satisfaction of the owner.
4. The turbidity curtain and all dredging equipment must be thoroughly cleaned before use.
5. The contractor shall drive any schools of fish out of the work area prior to installing the turbidity curtain.
6. The work in the lake shall not be conducted between April 30 and June 30.
7. Phragmites shall be removed from the project area by a qualified contractor prior to dredging.

OWNER/APPLICANT

HOTCHKISS SCHOOL
11 INTERLAKEN RD
LAKEVILLE, CT 06039

LIST OF DRAWINGS

01 COVER
02 SITE PLAN
03 DETAILS

REV.	DATE	DESCRIPTION	BY	CHK.
2	2024.07.23	Conditions of IWWC Approval	JS	TAP
2	2024.07.15	Responce to IWWC Comments	JS	TAP
1	2024.05.31	Miscellaneous	JS	TAP

DRAWING ISSUE STATUS

PERMITTING

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
WWW.HALEYWARD.COM
140 Willow Street
Winsted, Connecticut 06098
860.379.6669

PROJECT

LAKE WONONSKOPOMUC DREDGING
THE HOTCHKISS SCHOOL
INTERLAKEN ROAD (ROUTE 112) - SALISBURY, CONNECTICUT

TITLE

COVER

DATE	SCALE
May 23, 2024	1"= 20'

DRAWN BY	DESIGNED BY	CHECKED BY
JS	TAP	JS

PROJECT No. 4010251.003

DRAWING No. 01 REV. 3

LAKE WONONSKOPOMUC
(EDGE OF WATER LOCATED MARCH 31, 2024)
(ELEVATION OF WATER = 723' APPROX)

LAKE WONONSKOPOMUC
(EDGE OF WATER LOCATED MARCH 31, 2024)
(ELEVATION OF WATER = 723' APPROX)

N

BENCHMARK
TOP OF NAIL
IN CONCRETE
ELEV = 723.72'

TURBIDITY CURTAIN SURROUNDING WORK AREA TO BE RELOCATED AS DREDGING PROGRESSES

APPROXIMATE LIMITS OF DREDGING

FLOAT

DREDGING PUMP

HAYBALE BARRIER

DEWATERING BAG

USE EXISTING DRIVEWAY FOR ACCESS

REMOVE PHRAGMITES PRIOR TO DREDGING

n/f
SIMS JENNIFER & FRANK TR
SIMS FAMILY TRUST

n/f
HOTCHKISS SCHOOL

75' UPLAND REVIEW AREA

EXISTING BOAT JETTY

SUCKER BROOK

BOAT STORAGE AREA

LAWN

WOODS

GRAVEL DRIVE

TO INTERLAKEN ROAD - ROUTE 112

0 20 40 Feet

This drawing is based on a field survey entitled "SITE PLAN, MAP PREPARED FOR, THE HOTCHKISS SCHOOL, INTERLAKEN ROAD - ROUTE 112, "LAKEVILLE", SALISBURY, CONNECTICUT, SCALE 1" = 20', APRIL 11, 2024", prepared by Mathias M. Kiefer, L.L.S.

Contours as shown are at two foot intervals based on approximate u.s.g.s datum.

REV.	DATE	DESCRIPTION	BY	CHK.
2	2024.07.23	Conditions of IWWC Approval	JS	TAP
2	2024.07.15	Responce to IWWC Comments	JS	TAP
1	2024.05.31	Miscellaneous	JS	TAP

DRAWING ISSUE STATUS

PERMITTING

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
WWW.HALEYWARD.COM
140 Willow Street
Winsted, Connecticut 06098
860.379.6669

PROJECT

LAKE WONONSKOPOMUC DREDGING
THE HOTCHKISS SCHOOL
INTERLAKEN ROAD (ROUTE 112) - SALISBURY, CONNECTICUT

TITLE

SITE PLAN

DATE	SCALE
May 23, 2024	1"= 20'

DRAWN BY	DESIGNED BY	CHECKED BY
JS	TAP	JS

PROJECT No. 4010251.003

DRAWING No. 02 REV. 3

SOIL EROSION AND SEDIMENT CONTROL PLAN NARRATIVE

1. INTRODUCTION AND PERMIT COMPLIANCE

This narrative describes the **minimum** measures required to control soil erosion during and after construction of the sitework shown on this plan. The soil erosion and sediment control measures shown on this plan are designed in accordance with a document entitled "Connecticut Guidelines for Soil Erosion and Sediment Control" published by the Connecticut Council on Soil and Water Conservation in Collaboration with Connecticut Department of Energy and Environmental Protection effective March 30, 2024. The Contractor may be required to implement additional measures to prevent site erosion and sedimentation of downstream waterways.

The Contractor is required to obtain copies of, and comply with the conditions of all permits for this project, including but not limited to:

- Municipal Inland Wetlands Permit
- Municipal Planning & Zoning Permit

The Contractor's activities and operations include all site work and work incidental to the project including, but not limited to haul roads, waste and disposal areas, staging areas, and field offices. If any of his activities require approvals above and beyond those already accounted for by the Owner's permits, the Contractor shall apply for and obtain such permits prior to conducting those operations. If incidental work such as haul roads, waste and disposal areas, staging areas, and field offices are not shown on the plans, and require additional erosion control, the Contractor shall provide such controls.

2. PROJECT DESCRIPTION AND SITE CHARACTERISTICS

The site is a 0.75-acre portion of Lake Wononskopomuc where Sucker Brook discharges into the lake. Sediment from the brook is deposited into the lake and builds up, making it difficult to launch sailboats. This area has been dredged in the past.

The project will use diver-assisted hydraulic dredging. Sediment-laden water is drawn through a hose and discharged into a large filter bag. The bag retains the sediment, while clean water runs back into the lake. Additional measures include a filter sock downstream of the filter bag and a turbidity curtain in the lake around the work area.

3. CONSTRUCTION SEQUENCING

The Hotchkiss School shall engage a qualified contractor to identify and remove phragmites from the project area prior to dredging. The phragmites removal is not subject to the April 30 to June 30 time restriction.

1. Confirm all permits are in place.
2. If required by the Town, hold a preconstruction meeting.
3. Install haybales and plastic liner where shown on the plans.
4. Install filter bag.
5. Drive any schools of fish out of the work area using splashing or boat motors.
6. Install turbidity curtain around the work area.
7. Dredge lake.
8. Relocate turbidity curtain as required to isolate work area as dredging progresses.
9. Remove filter bag and contents after dredging is complete and bag is dewatered. If required, use multiple bags.
10. Restore all disturbed areas.
11. Remove erosion and sediment controls after stabilization of the site.

Dredging work is expected to occur in the summer of 2025 and take approximately one month. The dredging work shall not be conducted between April 30 and June 30.

4. RESPONSIBILITY

4.1 RESPONSIBILITIES OF OWNER/PERMITEE

The Owner/Permittee is The Hotchkiss School, 11 Interlaken Road, Lakeville, CT 06039. Contact John Bryant. Phone 860-435-3162.

The Owner/Permittee shall:

A. Provide the Contractor with copies of land-use permits that Owner has acquired.

B. Inform all parties involved with the proposed site work of this plan's objectives and requirements.

4.2 RESPONSIBILITIES OF CONTRACTOR

The Contractor is responsible for preventing erosion of the site and for protecting adjacent waterways from sedimentation. The Contractor shall:

A. Install, monitor, and maintain the soil erosion and sediment control measures as shown on this plan.

B. Comply with all permit requirements.

C. Provide the Owner, Engineer, and the municipality with 24 hour phone numbers in the event of an emergency at the site.

5. PRECONSTRUCTION CONFERENCE

If required by the Town, the Contractor shall initiate a preconstruction conference with the Owner, Contractor, Engineer, and a municipal representative to review the proposed soil erosion and sediment control measures.

6. DESCRIPTION AND MAINTENANCE OF EROSION CONTROL MEASURES

6.1 TEMPORARY STABILIZATION MEASURES

Filter Sock:

Install filter sock as shown on the plans and details. Socks shall consist of a filter media inside of a mesh tube. Stake the filter sock at four-foot intervals or as called for by the manufacturer. Filter socks less than 12 inches in diameter shall be installed in a shallow depression. Where the filter sock is not continuous, it shall be overlapped a minimum of three feet. Remove sediment once levels have reached 1/4 of the effective sock. Repair and/or replace filter sock immediately if damaged or deteriorated. See table below for more information.

Project Duration	Mesh Material
Up to 5 years	Multi-Filament Polypropylene
Up to 12 months	Biodegradable Cotton Fiber
Up to 18 Months	Biodegradable Wood Fiber

6.2 TEMPORARY STRUCTURAL MEASURES

Filter Bag (Dewatering Bag):

Place a plastic liner in the dewatering area. Surround with haybales and wrap the liner over the bales to create a berm

Install a temporary filter bag within the berm as shown on the plan. Routinely inspect the water within the berm and release to the lake after confirmation that the water has released the sediment. When the dredging is complete, remove the contents and dispose of off campus. Remove and dispose of the bag. More than one bag may be required.

Turbidity Curtain:

Install a turbidity curtain where shown on the plans to contain siltation of the lake. Maintain the curtain in place until dredging is complete and turbidity has completely settled out. Relocate the curtain as required as the work progresses.

6.3 PERMANENT STABILIZATION MEASURES

Seed and Mulch: Immediately following removal of the filter bag, evaluate disturbance of underlying ground surface. If necessary, restore areas with seed and mulch.

Prior to seeding, submit soil samples to a qualified soils laboratory for recommendations on liming and fertilizer. Follow the laboratory recommendations. All areas, to be re-vegetated, shall be seeded at a rate of 6 lbs/1,000 SF as follows:

For seeding between May 1st and August 15th:

Creeping red fescue	35 parts
Chewings red fescue	20 parts
Kentucky 31 tall fescue	20 parts
Domestic rye grass	25 parts

For seeding any other time of year:

Creeping red fescue	35 parts
Chewings red fescue	20 parts
Kentucky 31 tall fescue	15 parts
Baron bluegrass	20 parts
Rough bluegrass	10 parts

Immediately after seeding operations, cover the seedbed with hay or straw mulch at a rate of 100 lbs./1000 sq. ft. Mulch must be free of weeds and coarse matter. Spread mulch by hand or by mulch blower. Mulch anchoring is required by tractor drawn anchoring device along contour, or by tracking with a bulldozer (cleats parallel to contour) on slopes flatter than 3H:1V.

6.4 OTHER CONTROLS

Waste Disposal:

Provide an adequate number of covered waste containers to ensure that no litter, debris, building materials, or similar materials are discharged to wetlands or watercourses. Instruct subcontractors to use the containers for waste material. Empty the containers promptly when full.

7. GENERAL CONDITIONS

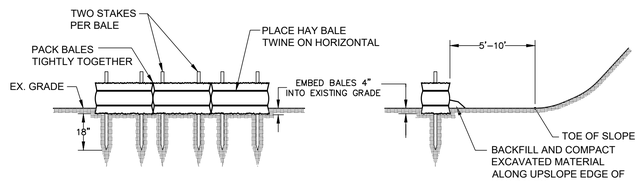
7.1 If erosion control measures are damaged by construction vehicles, acts of vandalism, or severe weather conditions, the Contractor shall immediately remove sediment in the vicinity of the erosion control measures and repair these measures to a functional condition.

7.2 If, during or after construction, it becomes apparent that existing erosion control measures are incapable of controlling erosion, the Owner, the Engineer, or the municipality may require additional control measures including, but not limited to; additional haybales, silt fence, sediment basins, or mechanically anchored mulch.

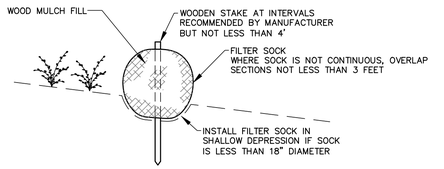
7.3 Refueling of equipment or machinery within 75 feet of any wetland or watercourse is prohibited.

7.4 No materials resulting from construction activities shall be placed in or allowed to contribute to the degradation of an adjacent wetland or watercourse. Disposal of any material shall be in accordance with Connecticut General Statutes, including, but not limited to, Sections 22a-207 through 22a-209.

7.5 Dumping of oil, chemicals or other deleterious materials on the ground is forbidden. The Contractor shall provide a means of catching, retaining, and properly disposing of drained oil, removed oil filters, or other deleterious material. All spills of such materials shall be reported immediately by the Contractor to the DEEP.



HAY BALE BARRIER
NOT TO SCALE



FILTER SOCK
NOT TO SCALE

SPILL PREVENTION & EMERGENCY RESPONSE PLAN

I. Introduction

Work at this site will occur in Lake Wononskopomuc. The Contractor shall take all necessary precautions to minimize the potential for contamination.

This plan describes the minimum spill prevention and emergency response measures that the Contractor must undertake during the course of this project to protect valuable water resources.

II. Supervision

The Contractor shall provide a qualified, full-time Superintendent who shall work on site during all active phases of the work, for the duration of construction activity. The Superintendent shall be fully trained and authorized to implement this plan. All employees working on this site shall be instructed in this plan prior to the start of construction.

III. Potential for Pollution

Pollution of Lake Wononskopomuc could result from damage caused by a heavy runoff event, normal construction operations, or an accident.

Runoff-induced pollutants include sediment from dredged spoils. The project's Erosion Control Plan, contends with managing soil erosion and pollution associated with sedimentation.

Operations which could cause pollution include loading of spoils or refueling and servicing of construction equipment.

Accidents which could cause pollution include spills, leaks, and ruptured hydraulic lines.

IV. Prevention Measures

The Contractor shall implement the following measures to prevent and control potential adverse impacts to the lake and downstream water resources.

A. Turbidity Curtain

1. Install a turbidity curtain in accordance with the plans and details. Refer to the site plan for location.
2. Inspect the curtain daily and repair it or replace it immediately if it is damaged.
3. Immediately remove floating construction or natural debris from the work area to avoid damaging the curtain.

B. Maintenance Operations

1. All refueling and maintenance of equipment (except water-dependent equipment) must take place on dry land at least 75 feet from the lake.
2. Immediately clean all spills with absorbent materials from spill kits that are stored on-site. Properly dispose of all wastes and used absorbent materials immediately following cleanup.
3. Use spigots or funnels to minimize drips or leaks when transferring fluids.
4. Keep hydraulic and mechanical equipment in good repair. Clean all drips promptly.
5. Vehicle and equipment washing is prohibited at this location.

C. Storage Procedures

1. Continuous fuel storage is prohibited at this location. Fuel for equipment may be brought to the site daily in portable tanks. Any portable tanks must be removed from the site daily, prior to close of business for the day.
2. Relocate all construction equipment at least 75 feet away from the lake at the close of each work day.
3. Protect stored materials from exposure to rainfall to the maximum extent practicable.

D. Loading and Unloading Procedures

1. Qualified personnel, trained in spill response procedures, shall continuously observe all transfers of fuel to construction equipment.
2. Refuel equipment only during daylight hours.
3. Prior to unloading, inspect hose connections on all construction equipment arriving at the site for leaks or problems. Repair any leaks or problems prior to off-loading equipment.
4. Verify the capacity of a receiving tank prior to unloading fluid contents into storage.
5. Reduce flow rate when topping off any kind of storage tank to prevent overfills.
6. Secure all delivery trucks wheel chocks and parking brake during loading and unloading operations.
7. Position delivery trucks during unloading to allow for a rapid response to a hose leak or other type of leak or spill.

V. Spill Kit

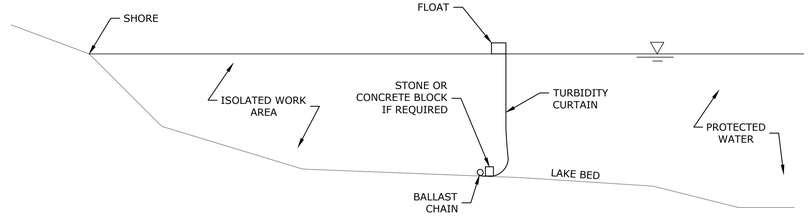
The Contractor shall maintain a complete and easily accessible spill cleanup kit on the site and shall train all personnel working at the site as to the location and proper use of spill-kit contents. The spill kit, at a minimum, shall contain at least the following contents:

1. 5 gallons of absorbent materials (minimum)
2. Shovel
3. Broom
4. 100 linear feet of absorbent boom
5. Waste drum with a minimum capacity of 30-gallon capacity (minimum)
6. Absorbent pads in an adequate quantity to absorb a minimum of 10 gallons of oil

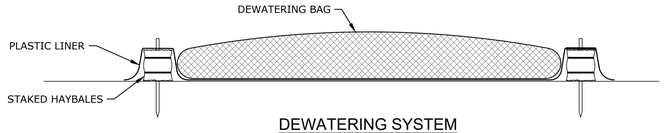
VI. Spill Response Procedures

In the event of a spill, the Contractor and his or her staff shall implement the following response procedures:

1. Any employee who is aware of a spill or leak shall immediately advise the Contractor's Superintendent.
2. The Superintendent shall evaluate the nature and extent of the spill and determine the necessary response.
3. If the Superintendent determines that the spill is very minor and no threat to the watercourses or water bodies, the Superintendent shall direct the cleanup. The Contractor's work force shall contain the spill as close to the source as possible with tools and absorbent materials contained in the emergency spill kit. As necessary, the Contractor's work force shall construct additional dikes to protect swales, storm sewers, and watercourses down-gradient from the spill. Immediately following the cleanup, the Contractor shall properly dispose of all waste material, including used absorbent materials. The Contractor shall contact the DEEP Oil and Chemical Spills Unit at 860-424-3338 for guidance regarding proper disposal of hazardous or regulated wastes.
4. If the Superintendent determines that the spill presents the potential for a health hazard, environmental hazard, or fire or explosion potential, he or she shall immediately call 911 to report the incident and solicit a response from the local Fire Department. Upon a response from the Fire Department or DEEP, the Contractor shall act as directed by the Fire Department or DEEP.



TURBIDITY CURTAIN
NOT TO SCALE



DEWATERING SYSTEM
NOT TO SCALE

REV.	DATE	DESCRIPTION	BY	CHK
3	2024.07.23	Conditions of IWWC Approval	JS	TAP
2	2024.07.15	Response to IWWC Comments	JS	TAP
1	2024.05.31	Miscellaneous	JS	TAP

DRAWING ISSUE STATUS

PERMITTING

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
WWW.HALEYWARD.COM
140 Willow Street
Winsted, Connecticut 06098
860.379.6669

PROJECT

LAKE WONONSKOPOMUC DREDGING
THE HOTCHKISS SCHOOL
INTERLAKEN ROAD (ROUTE 112) - SALISBURY, CONNECTICUT

TITLE

DETAILS

DATE	SCALE
May 23, 2024	1"= 20'

DRAWN BY	DESIGNED BY	CHECKED BY
JS	TAP	JS

PROJECT No.: 4010251.003

DRAWING No.: 03

REV.: 3